



HOME

Your home.
Your climate.

ESTIA

The warmth of the future.



LIGHT BUSINESS

The performance you need.
The comfort you expect.

BUSINESS

Plan for excellence. Cool
excellently.



CHILLERS

Cooling & heating in the big
leagues.

TOSHIBA PRODUCT CATALOG

AIR CONDITIONING SYSTEMS & HEAT PUMPS

GENERAL TERMS AND CONDITIONS

1. General

For the business transactions of AIR-COND International GmbH, Haushamer Strasse 2, 8054 Graz-Seiersberg, Austria, FN 568043h (hereinafter: "AIR-COND", "we", or "us"), the following General Terms and Conditions and the purchasing conditions agreed individually with our customers shall apply exclusively. Our contractual partners are hereinafter referred to as the "purchaser". Contractual provisions deviating from or supplementing these General Terms and Conditions, in particular general terms and conditions of business or purchase of our purchasers, shall only be deemed to be part of the contract to the extent that their validity is expressly confirmed by us in writing.

2. Ordering, changes to orders

- a) Orders will only be accepted by us if they clearly state the desired collection or delivery date (at least the desired calendar week).
- b) Orders shall not be deemed to have been accepted by us until they have either been confirmed by us in writing in an order confirmation, or the delivery has taken place. Any orders or changes to an order made verbally or via the telephone must be confirmed in writing.
- c) It is the responsibility of the purchaser to check the accuracy of the order confirmation immediately after receipt. In the absence of an immediate complaint, delivery in accordance with the order confirmation shall be deemed fulfillment of the contract.
- d) If the ordered goods are not collected within 6 weeks of the collection date stated in the order confirmation, or if the delivery is not carried out for a period of 6 weeks after the delivery date stated in the order confirmation for reasons attributable to the purchaser, we reserve the right to cancel the order and to charge the cancellation fees stated in point 2.e). Claims for damages resulting from this cannot be asserted against us.
- e) Full or partial cancellation or amendment of an order by the purchaser is only permitted with our written confirmation and entitles us to invoice the purchaser for a (cancellation or amendment) fee amounting to 10% of the net order value in addition to any services already provided and any costs incurred.

3. Pricing

- a) The prices are based on the currently valid price list. We also reserve the right to change the prices in the course of the year.
- b) The prices are shown net of any taxes, fees, or duties in the specified currency, inclusive of standard packaging.
- c) For self-pickup, the prices apply from our warehouse loading bay, but exclude loading. For delivery, the prices are inclusive of delivery (for invoice values in excess of EUR 850 net).
- d) Additional costs resulting from special requests, such as express delivery or special delivery method, special packaging, etc., may be considered, but will be borne by the purchaser. Packaging is non-returnable.
- e) If the prices of our suppliers on which the order is based change, especially in the event of currency rate fluctuations, customs, tax, and shipping costs, we reserve the right to revise our prices even for existing orders.

4. Payment terms

- a) In the absence of other agreements, our terms of payment are based on the individual purchasing conditions.
- b) We reserve the right to send invoices exclusively by email. If invoicing by post is required, this is to be notified to us separately in writing.
- c) If the purchaser is in default of payment, we shall be entitled to exercise a right of retention for all further services arising from the business relationship until the default of payment has been remedied and to demand advance payment for all unfulfilled orders of the purchaser.
- d) In the event of payment default, the purchaser is to pay interest at an annual rate of 9.2 percentage points above the base rate on the outstanding amount. This provision in no way affects the possibility of making a claim for higher compensation for the delay.

5. Delivery

- a) Any delivery times offered by us are merely approximate and non-binding. We shall, however, make every effort to deliver at the specified times. There is no entitlement for a specific delivery time to be met. Delivery delays shall therefore not give rise to claims for compensation nor shall they entitle you to terminate the contract.
- b) We shall in no case accept claims for penalty payment made by the purchaser.
- c) Unless otherwise agreed, part-deliveries are permitted.
- d) The 2020 edition of the Incoterms apply.
- e) Unless we are given instructions to the contrary, the delivery will be made to the address known to us. Unless otherwise instructed by the purchaser, the choice of transport route and means of transport shall be made at our discretion and without liability for providing the cheapest and fastest carriage.
- f) If delayed delivery of the goods is requested by or attributable to the purchaser, then the goods shall be stored at the purchaser's expense and risk.
- g) No costs that result from incorrect delivery may be claimed against us.

6. Receipt of the goods, transfer of risk, damage in transit

- a) For self-pickup, the risk is transferred to the purchaser in the absence of any other agreements as soon as the goods have left the loading bay at which they are made available for pickup. The loading risks are already borne by the purchaser. For delivery, the risk passes to the purchaser when the goods are accepted.
- b) It is the purchaser's responsibility, when the goods are accepted, to check that they have been handed over correctly and according to the order confirmation, and are checked for damage. Any damage to the packaging or the unit are to be noted on the delivery note and immediately reported to the carrier and us. If the purchaser identifies defects, i.e., defects that are not visible due to the packaging, then they are obliged to make a complaint to us immediately and no later than 7 days after the pickup date/delivery date (for purchasers based outside Austria, 10 days after the pickup date/delivery date) using the online form provided, otherwise the insurance claim/liability will lapse. We shall not be liable for any claims made for damage, incorrect quantity, etc., that are received after this deadline. A late complaint in the sense of the above shall result in the loss of all claims resulting from any defective or incorrect delivery.
- c) We are entitled to invoice the purchaser for any costs resulting from delayed acceptance, especially the storage costs.
- d) If a carrier is granted a signature release authorization, the risk of loss or damage of the goods is transferred to the purchaser when the goods are dropped off at the specified location in accordance with instructions. We are not liable for any damage or defects arising thereafter.

7. Returns

- a) Return and exchange shipments of goods shall require our express written consent.
- b) A return of duly delivered goods for credit shall only be accepted within a period of 2 months from the invoice date, in the original packaging and in their original condition.
- c) The goods shall be returned to a location to be stipulated by us at the expense and risk of the Buyer.
- d) In the case that goods are returned, the sales price shall be refunded in the form of a credit note, with a deduction of 15% processing costs from the net invoice amount or a minimum cost of EUR 50,-.
- e) Goods returned contrary to agreement shall be rejected by us and returned to the Buyer at the latter's expense and risk.

8. Retention of title

The goods delivered or otherwise handed over by us shall remain our property until they have been paid for in full.

9. Material and general warranty

- a) We grant a material warranty to our purchasers, but not to third parties, in accordance with the following provisions. This material warranty under warranty law consists exclusively of the assurance that our products are free of defects for a period of 36 months from delivery of the product. Claims under a material warranty must be made by the purchaser within 2 months after the defect has been discovered by completing the warranty claim form and, upon request, returning the faulty part at the purchaser's own expense.
- b) In the absence of more favorable statutory provisions for the purchaser, a material warranty of 12 months from delivery shall apply to spare parts.
- c) The material warranty covers exclusively the provision of spare parts. It does not include compensation for other claims, in particular those arising from recalls, installation and removal costs, transportation costs, labor costs, refrigerants, or travel costs.
- d) Our material warranty is subject to the conditions of proper installation by a specialist company in accordance with the TOSHIBA installation guidelines, compliance with the TOSHIBA conditions of use, correct dimensioning, and regular maintenance in accordance with the TOSHIBA maintenance instructions. Otherwise, all claims under the material warranty are void.
- e) For VRF products, an extended material warranty is granted for a period of 60 months from delivery if a commissioning report is completed and submitted to AIR-COND within a period of 36 months from delivery, but no later than 2 months after commissioning of the product. The extended material warranty is confirmed separately by us by means of a certificate.
- f) ESTIA compressors are covered by an extended material warranty for a period of 60 months from delivery.
- h) Warranty claims may be made exclusively online (www.toshiba-aircondition.com) in the AIR-COND partner area using the form provided.
- h) Even if the goods are installed in a building, the goods shall be treated as movable property for the purposes of the statutory warranty claims. Any defects that occur must be reported by the purchaser immediately, specified clearly, and made in writing. Article 933b and Article 924 Sentence 2 of the Austrian Civil Code (ABGB) shall not apply in the relationship between us and the purchaser.

10. Proof of export

- a) If the goods are shipped from Austria, the purchaser undertakes to send us the completed and signed "Proof of Delivery" form by post or email within 10 days of collecting the goods. In addition, we reserve the right to request further proof of transportation, if this has not already been submitted at the time of collection of the goods; in the case of collection by the purchaser's own truck by means of a "Declaration on the transportation of goods to the rest of the Community" in accordance with Article 7 of the Sales Tax Act (UstG), including a copy of the ID of the person collecting the goods and authorization to collect the goods, or in the case of collection by a contracted forwarding agent, by means of proof of dispatch (e.g., consignment note). If this is not done, the purchaser will be charged sales tax at a rate of 20%.
- b) In addition, the purchaser undertakes to send us proof of export (in particular "Certificate of export of the goods from the EU") by post or email within 10 days of collecting the goods if the goods are transported to a destination outside the EU (third country). If this is not done, we shall invoice for 20% sales tax, customs costs, and custom penalties.

11. Compensation for damages

In all cases under consideration, we shall only be liable for damages in the event of intent or gross negligence. In the event of slight negligence, we shall only be liable for personal injury. Liability shall in any case become time-barred within 6 months of the purchaser becoming aware of the damage and the party causing the damage.

We shall not be liable for indirect damage, loss of profit, loss of interest, failure to make savings, consequential damage and financial loss, damage arising from third-party claims, or for the loss of data and programs and their recovery. The purchaser shall indemnify and hold us harmless against claims of third parties under product liability law if the relevant basis for the claim (in particular due to the presentation of the goods) was created by the purchaser or their contractual partners' conduct. Any recourse of the purchaser against us under product liability law is excluded and the purchaser will contact the manufacturer of the defective goods directly, which we will disclose on request.

If, in any case whatsoever, a contractual penalty has been agreed in an individual contract at our expense, this shall be subject to the judicial right of moderation. The assertion of a claim for damages by the purchaser in excess of a contractual penalty is excluded in any case.

12. Offsetting

Offsetting against our claims with counterclaims of the purchaser, of whatever kind, is excluded.

13. Place of jurisdiction and choice of law

All disputes arising from a contract between us and the purchaser – including those concerning its existence or non-existence – shall be subject to the exclusive jurisdiction of the regional court ZRS Graz. The contract shall be governed exclusively by the law of the Republic of Austria, excluding the conflict of law rules and the provisions of the UN Convention on Contracts for the International Sale of Goods.

Version dated March 2024

Validity of the price list: 1 March 2024 to 31 March 2025
The general terms and conditions of AIR-COND International GmbH apply.

Subject to change without prior notice. All information, type designations and illustrations are subject to change, printing and typesetting errors. For detailed product information please consult the data sheets which are available on our website: www.toshiba-aircondition.com. Technical document for specialist retailers

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A COMFORTABLE CLIMATE
IN YOUR HOME

OVERVIEW OF HOME INDOOR UNITS

- › Top design and high efficiency up to A+++
- › Indoor units in different designs for all applications
- › Different air filter technologies cover all needs

HIGH-WALL UNITS

SEIYA CLASSIC

Sizes: 7, 10, 13, 16, 18, 24



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SEIYA

Sizes: 7, 10, 13, 16, 18, 24

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SHORAI Edge White

Sizes: 7, 10, 13, 16, 18, 22, 24

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SHORAI Edge Black

Sizes: 7, 10, 13, 16, 18, 22, 24

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HAORI

Sizes: 10, 13, 16

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DAISEIKAI 9

Sizes: 10, 13, 16

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DAISEIKAI 10 White

Sizes: 10, 13, 18



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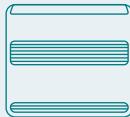
DAISEIKAI 10 Wood

Sizes: 10, 13, 18



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CONSOLE UNITS



Console

Sizes: 10, 13, 18

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CASSETTE UNITS

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60x60 slim cassette

Sizes: 10, 13, 16



DUCT UNITS

Duct unit

Sizes: 10, 13, 16, 22, 24

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PRODUCT OVERVIEW

	FUNCTIONS	SEIYA CLASSIC	SEIYA	SHORAI EDGE WHITE	SHORAI EDGE BLACK	HAORI	DAISEIKAI 9	DAISEIKAI 10 WHITE	DAISEIKAI 10 WOOD	CONSOLE	DUCT UNIT	60x60 SLIM CASSETTE
Type	SINGLE-split usage											
	MULTI-split usage											
Functions	Cooling											
	Heating											
Technology	R32 refrigerant											
	Rotary compressor		07 - 18	07-16	07-16						10/13	
	Twin-rotary compressor		24	18/22/24	18/22/24					18		
Air quality	Self-cleaning function											
	Dust filter											
	IAQ filter											
	Active carbon-catechin filter											
	Ultra pure PM2.5 filter											
	Ultra fresh PM2.5 filter											
	Plasma filter / ionizer											
Features	HI POWER											
	Auto diagnostics											
	Eco mode											
	Quiet mode											
	Silent mode											
	Comfort sleep											
	Power selection											
	Floor mode											
	Preset mode											
	One-touch mode											
	TOSHIBA WiFi											
	Weekly timer											
	Timer											
	Automatic restart											
	8°C frost protection											
	Fireplace mode											
	Swing mode											
	3D HADA airflow			18/24	18/24							
	Presence sensor											
	Smart sensing											

● Standard ○ Optional



HAORI

Design without limits.



SEIYA Classic / Set



- › CLASSIC Line compact inverter
- › A++ for cooling, A+ for heating
- › Dust filter
- › WiFi module optional
- › Energy monitoring: for single-split systems & multi NEXT

SEIYA

INDOOR UNIT OUTDOOR UNIT	RAS-B07B2KVG-E RAS-07B2AVG-E	RAS-B10B2KVG-E RAS-10B2AVG-E	RAS-B13B2KVG-E RAS-13B2AVG-E	RAS-B16B2KVG-E RAS-16B2AVG-E	RAS-B18B2KVG-E RAS-18B2AVG-E	RAS-B24B2KVG-E RAS-24B2AVG-E
Cooling capacity	kW	2,00	2,50	3,30	4,20	5,00
Cooling range (min.-max.)	kW	0,76 - 2,40	0,80 - 3,00	1,00 - 3,60	1,10 - 4,70	1,10 - 5,50
Power consumption (min./nom./max.)	kW	0,20/0,60/ 0,74	0,21/0,72/ 1,00	0,25/1,17/ 1,35	0,35/1,37/ 1,70	0,35/1,73/ 1,90
Energy efficiency EER	W/W	3,33	3,47	2,82	3,07	2,89
Energy efficiency SEER		6,10	6,10	6,10	6,10	6,10
Energy efficiency class		A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46
Heating capacity	kW	2,50	3,20	3,60	5,00	5,40
Heating range (min.-max.)	kW	0,76 - 3,30	0,76 - 3,90	0,76 - 4,50	0,85 - 6,00	1,10 - 8,00
Power consumption (min./nom./max.)	kW	0,16/0,64/ 0,94	0,18/0,84/ 1,11	0,18/1,02/ 1,25	0,25/1,45/ 1,90	0,27/1,65/ 1,88
Energy efficiency COP	W/W	3,91	3,81	3,53	3,45	3,27
Energy efficiency SCOP		4,00	4,00	4,00	4,00	4,00
Energy efficiency class		A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-10/+24	-10/+24	-10/+24	-10/+24	-10/+24
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	10	10	10	10	16
Set price	€	1.030,-	1.100,-	1.200,-	1.560,-	1.850,-
1.200,-	1.300,-	1.400,-	1.500,-	1.800,-	2.100,-	2.260,-

INDOOR UNIT	RAS-B07B2KVG-E	RAS-B10B2KVG-E	RAS-B13B2KVG-E	RAS-B16B2KVG-E	RAS-B18B2KVG-E	RAS-B24B2KVG-E
Airflow	m³/h	200-500	230-620	230-650	330-760	480-790
Sound pressure level (low/med/high)	dB(A)	19/-/40	19/-/41	20/-/42	22/-/44	26/-/47
Sound pressure level (low/med/high)	dB(A)	19/-/39	20/-/40	20/-/42	23/-/43	26/-/48
Dimensions (HxWxD)	mm	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230
Weight	kg	9	9	9	10	10
Price	€	350,-	350,-	360,-	380,-	450,-
350,-	350,-	360,-	360,-	380,-	450,-	560,-

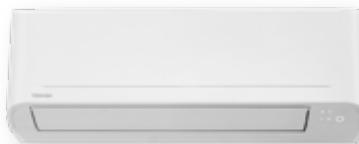
OUTDOOR UNIT	RAS-07B2AVG-E	RAS-10B2AVG-E	RAS-13B2AVG-E	RAS-16B2AVG-E	RAS-18B2AVG-E	RAS-24B2AVG-E
Sound pressure level (low/med/high)	dB(A)	--/-/49	--/-/49	--/-/50	--/-/52	--/-/52
Sound pressure level (low/med/high)	dB(A)	--/-/51	--/-/51	--/-/52	--/-/53	--/-/53
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m	2	2	2	2	2
Pipe length (max.)	m	10	10	10	15	15
Height difference (max.)	m	8	8	8	8	8
Compressor type		Rotary	Rotary	Rotary	Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,44	0,49	0,54	0,68	0,93
Dimensions (HxWxD)	mm	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	550 x 780 x 290	550 x 780 x 290
Weight	kg	20	21	21	29	37
Price	€	680,-	750,-	840,-	1.180,-	1.400,-
680,-	750,-	840,-	840,-	1.180,-	1.400,-	1.700,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		105,-
RB-RXS34-E	Design infrared remote control, black, with magnetic holder		120,-
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya Classic, Seiya, Shorai Edge, Daiseikai 9		115,-
818F0036	IAQ filter strips		52,-
818F0023	Active carbon-catechin filter strips		33,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

SEIYA / Set



- › BASIC Line compact inverter
- › A++ for cooling & heating
- › Dust filter and ultra fresh filter
- › WiFi module optional
- › Energy monitoring: for single-split systems & multi NEXT



SEIYA



INDOOR UNIT OUTDOOR UNIT		RAS-B07E2KVG-E RAS-07E2AVG-E	RAS-B10E2KVG-E RAS-10E2AVG-E	RAS-B13E2KVG-E RAS-13E2AVG-E	RAS-B16E2KVG-E RAS-16E2AVG-E	RAS-B18E2KVG-E RAS-18E2AVG-E	RAS-B24E2KVG-E RAS-24E2AVG-E
Cooling capacity	kW	2,00	2,50	3,30	4,20	5,00	6,50
Cooling range (min.-max.)	kW	0,76 - 2,60	0,80 - 3,00	1,20 - 3,60	1,40 - 4,70	1,45 - 5,50	1,70 - 7,20
Power consumption (min./nom./max.)	kW	0,20/0,53/ 0,83	0,20/0,70/ 1,00	0,25/1,10/ 1,25	0,34/1,27/ 1,60	0,34/1,50/ 1,80	0,41/2,25/ 2,60
Energy efficiency EER	W/W	3,77	3,57	3,00	3,31	3,33	2,89
Energy efficiency SEER		6,90	7,00	7,00	7,00	7,00	6,90
Energy efficiency class		A++	A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	2,50	3,20	3,60	5,00	5,40	7,00
Heating range (min.-max.)	kW	0,82 - 3,30	0,95 - 3,90	0,97 - 4,50	1,30 - 6,00	1,35 - 6,00	1,50 - 8,10
Power consumption (min./nom./max.)	kW	0,16/0,64/ 0,94	0,18/0,86/ 1,11	0,18/0,92/ 1,25	0,24/1,34/ 1,70	0,26/1,50/ 1,80	0,29/2,10/ 2,55
Energy efficiency COP	W/W	3,91	3,72	3,91	3,73	3,60	3,33
Energy efficiency SCOP		4,60	4,60	4,60	4,60	4,40	4,30
Energy efficiency class		A++	A++	A++	A++	A+	A+
Outdoor temperature operating range (min.-max.)	°C	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	6	6	10	10	10	16
Set price	€	1.130,-	1.220,-	1.330,-	1.720,-	2.050,-	2.490,-

INDOOR UNIT		RAS-B07E2KVG-E	RAS-B10E2KVG-E	RAS-B13E2KVG-E	RAS-B16E2KVG-E	RAS-B18E2KVG-E	RAS-B24E2KVG-E
Airflow	m³/h	500	510	560	760	840	1070
Sound pressure level (low/med/high)	dB(A)	19/-/38	19/-/39	20/-/41	21/-/43	26/-/47	29/-/48
Sound pressure level (low/med/high)	dB(A)	19/-/38	20/-/39	20/-/42	22/-/43	26/-/48	29/-/48
Dimensions (HxWxD)	mm	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
Weight	kg	9	9	9	9	9	15
Price	€	380,-	390,-	400,-	420,-	500,-	610,-

OUTDOOR UNIT		RAS-07E2AVG-E	RAS-10E2AVG-E	RAS-13E2AVG-E	RAS-16E2AVG-E	RAS-18E2AVG-E	RAS-24E2AVG-E
Sound pressure level (low/med/high)	dB(A)	19/-/47	19/-/47	19/-/48	19/-/50	19/-/50	19/-/54
Sound pressure level (low/med/high)	dB(A)	19/-/49	19/-/49	19/-/49	19/-/51	19/-/51	19/-/54
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m	2	2	2	2	2	2
Pipe length (max.)	m	15	15	15	20	20	20
Height difference (max.)	m	15	15	15	15	15	15
Compressor type		Rotary	Rotary	Rotary	Rotary	Rotary	Twin Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,34	0,49	0,54	0,68	0,93	1,18
Dimensions (HxWxD)	mm	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg	21	22	22	30	34	38
Price	€	750,-	830,-	930,-	1.300,-	1.550,-	1.880,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		105,-
RB-RXS34-E	Design infrared remote control, black, with magnetic holder		120,-
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya Classic, Seiya, Shorai Edge, Daiseikai 9		115,-
818F0036	IAQ filter strips		52,-
818F0023	Active carbon-catechin filter strips		33,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

SHORAI Edge White / Set



- › HIGH Line allrounder with design and function update
- › High efficiency: energy class A+++ / Clean air: dust filter & ultra pure filter
- › APP control: WiFi module integrated as standard
- › Transparent power consumption: Energy monitoring for single-split systems & multi NEXT



INDOOR UNIT OUTDOOR UNIT	RAS-B07G3KVSG-E RAS-07J2AVSG-E1	RAS-B10G3KVSG-E RAS-10J2AVSG-E1	RAS-B13G3KVSG-E RAS-13J2AVSG-E1	RAS-B16G3KVSG-E RAS-16J2AVSG-E1	RAS-B18G3KVSG-E RAS-18J2AVSG-E1	RAS-B22G3KVSG-E RAS-22J2AVSG-E1	RAS-B24G3KVSG-E RAS-24J2AVSG-E1	
Cooling capacity	kW	2,00	2,50	3,50	4,60	5,00	6,10	7,00
Cooling range (min.-max.)	kW	0,89 - 2,90	0,89 - 3,20	1,00 - 4,10	1,20 - 5,30	1,20 - 6,00	1,39 - 6,70	1,70 - 7,70
Power consumption (min./nom./max.)	kW	0,19/0,39/ 0,67	0,19/0,54/ 0,79	0,25/0,90/ 1,12	0,34/1,35/ 1,72	0,35/1,42/ 2,00	0,36/1,99/ 2,20	0,38/2,25/ 2,55
Energy efficiency EER	W/W	5,13	4,63	3,89	3,41	3,52	3,07	3,11
Energy efficiency SEER		8,50	8,60	8,60	7,80	7,80	7,30	6,30
Energy efficiency class		A+++	A+++	A+++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	2,50	3,20	4,20	5,50	6,00	7,00	8,00
Heating range (min.-max.)	kW	0,90 - 3,60	0,90 - 4,80	1,00 - 5,30	1,10 - 6,50	1,10 - 6,50	1,15 - 7,50	1,70 - 8,80
Power consumption (min./nom./max.)	kW	0,16/0,50/ 0,80	0,16/0,70/ 1,23	0,20/1,08/ 1,55	0,24/1,52/ 1,90	0,25/1,59/ 1,75	0,26/1,88/ 2,10	0,29/2,35/ 2,75
Energy efficiency COP	W/W	5,00	4,57	3,89	3,62	3,77	3,72	3,40
Energy efficiency SCOP		5,10	5,10	5,10	4,60	4,60	4,60	4,10
Energy efficiency class		A+++	A+++	A+++	A++	A++	A++	A+
Outdoor temperature operating range (min.-max.)	°C	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	10	10	10	10	10	10	16
Set price	€	1.575,-	1.615,-	1.865,-	2.190,-	2.565,-	2.935,-	3.420,-

INDOOR UNIT	RAS-B07G3KVSG-E	RAS-B10G3KVSG-E	RAS-B13G3KVSG-E	RAS-B16G3KVSG-E	RAS-B18G3KVSG-E	RAS-B22G3KVSG-E	RAS-B24G3KVSG-E	
Airflow	m³/h	312-660	312-660	342-732	360-768	990	1032	1122
Sound pressure level (low/med/high)	dB(A)	19/22/40	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Sound pressure level (low/med/high)	dB(A)	19/23/40	19/-/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Dimensions (HxWxD)	mm	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245			
Weight	kg	10	10	10	10	14	14	14
Price	€	690,-	695,-	745,-	800,-	850,-	975,-	1.140,-

OUTDOOR UNIT	RAS-07J2AVSG-E1	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E1	RAS-22J2AVSG-E1	RAS-24J2AVSG-E1	
Sound pressure level (low/med/high)	dB(A)	36/43/44	36/43/44	39/45/46	40/47/48	42/47/48	43/48/49	43/49/50
Sound pressure level (low/med/high)	dB(A)	38/44/46	38/44/46	43/46/48	43/49/50	44/49/50	46/50/51	46/52/52
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m	2	2	2	2	2	2	2
Pipe length (max.)	m	20	20	20	20	20	20	25
Height difference (max.)	m	12	12	12	12	12	12	15
Compressor type		Rotary	Rotary	Rotary	Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32						
Refrigerant charge	kg	0,55	0,55	0,80	0,80	1,10	1,10	1,14
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 800 x 300					
Weight	kg	26	26	30	33	34	34	42
Price	€	885,-	920,-	1.120,-	1.390,-	1.715,-	1.960,-	2.280,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		105,-
818F0036	IAQ filter strips		52,-
818F0023	Active carbon-catechin filter strips		33,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

You will find all the control options on page 33.

SHORAI Edge Black / Set



- › HIGH Line allrounder with design and function update
- › High efficiency: energy class A+++ / Clean air: dust filter & ultra pure filter
- › APP control: WiFi module integrated as standard
- › Transparent power consumption: Energy monitoring for single-split systems & multi NEXT



INDOOR UNIT OUTDOOR UNIT	RAS-B10G3KVSGB-E RAS-10J2AVSG-E1	RAS-B13G3KVSGB-E RAS-13J2AVSG-E1	RAS-B16G3KVSGB-E RAS-16J2AVSG-E1	RAS-B18G3KVSGB-E RAS-18J2AVSG-E1	RAS-B22G3KVSGB-E RAS-22J2AVSG-E1	RAS-B24G3KVSGB-E RAS-24J2AVSG-E1	
Cooling capacity	kW	2,50	3,50	4,60	5,00	6,10	
Cooling range (min.-max.)	kW	0,89 - 3,20	1,00 - 4,10	1,20 - 5,30	1,20 - 6,00	1,39 - 6,70	
Power consumption (min./nom./max.)	kW	0,19/0,54/ 0,79	0,25/0,90/ 1,12	0,34/1,35/ 1,72	0,35/1,42/ 2,00	0,36/1,99/ 2,20	
Energy efficiency EER	W/W	4,63	3,89	3,41	3,52	3,07	
Energy efficiency SEER		8,60	8,60	7,80	7,80	7,30	
Energy efficiency class		A+++	A+++	A++	A++	A++	
Outdoor temperature operating range (min.-max.)	°C	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	
Heating capacity	kW	3,20	4,20	5,50	6,00	7,00	
Heating range (min.-max.)	kW	0,90 - 4,80	1,00 - 5,30	1,10 - 6,50	1,10 - 6,50	1,15 - 7,50	
Power consumption (min./nom./max.)	kW	0,16/0,70/ 1,23	0,20/1,08/ 1,55	0,24/1,52/ 1,90	0,25/1,59/ 1,75	0,26/1,88/ 2,10	
Energy efficiency COP	W/W	4,57	3,89	3,62	3,77	3,72	
Energy efficiency SCOP		5,10	5,10	4,60	4,60	4,10	
Energy efficiency class		A+++	A+++	A++	A++	A+	
Outdoor temperature operating range (min.-max.)	°C	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	
Recommended fusing	A	10	10	10	10	16	
Set price	€	1.700,-	1.950,-	2.310,-	2.695,-	3.080,-	3.600,-

INDOOR UNIT	RAS-B10G3KVSGB-E	RAS-B13G3KVSGB-E	RAS-B16G3KVSGB-E	RAS-B18G3KVSGB-E	RAS-B22G3KVSGB-E	RAS-B24G3KVSGB-E	
Airflow	m³/h	312-660	342-732	360-768	990	1032	
Sound pressure level (low/med/high)	dB(A)	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	
Sound pressure level (low/med/high)	dB(A)	19/-/40	19/23/43	22/26/44	26/31/44	27/34/46	
Dimensions (HxWxD)	mm	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	
Weight	kg	10	10	10	14	14	
Price	€	780,-	830,-	920,-	980,-	1.120,-	1.320,-

OUTDOOR UNIT	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E1	RAS-22J2AVSG-E1	RAS-24J2AVSG-E1	
Sound pressure level (low/med/high)	dB(A)	36/43/44	39/45/46	40/47/48	42/47/48	43/48/49	
Sound pressure level (low/med/high)	dB(A)	38/44/46	43/46/48	43/49/50	44/49/50	46/50/51	
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	
Pipe length (min.)	m	2	2	2	2	2	
Pipe length (max.)	m	20	20	20	20	25	
Height difference (max.)	m	12	12	12	12	15	
Compressor type		Rotary	Rotary	Rotary	Twin-Rotary	Twin-Rotary	
Refrigerant		R32	R32	R32	R32	R32	
Refrigerant charge	kg	0,55	0,80	0,80	1,10	1,10	
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 800 x 300				
Weight	kg	26	30	33	34	42	
Price	€	920,-	1.120,-	1.390,-	1.715,-	1.960,-	2.280,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		105,-
818F0036	IAQ filter strips		52,-
818F0023	Active carbon-catechin filter strips		33,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

You will find all the control options on page 33.

HAORI / Set



- › DESIGN Line with innovative textile cover
- › A+++ for cooling & heating
- › Dust filter, ozone air purifier, and ultra pure filter
- › WiFi module integrated as standard
- › Energy monitoring: for single-split systems & multi NEXT



INDOOR UNIT OUTDOOR UNIT	RAS-B10N4KVRG-E RAS-10J2AVSG-E1	RAS-B13N4KVRG-E RAS-13J2AVSG-E1	RAS-B16N4KVRG-E RAS-16J2AVSG-E1
Cooling capacity	kW	2,50	3,50
Cooling range (min.-max.)	kW	0,89 - 3,20	1,00 - 4,10
Power consumption (min./nom./max.)	kW	0,19/0,54/0,79	0,25/0,80/1,12
Energy efficiency EER	W/W	4,63	4,38
Energy efficiency SEER		8,60	8,70
Energy efficiency class		A+++	A+++
Outdoor temperature operating range (min.-max.)	°C	-15/+46	-15/+46
Heating capacity	kW	3,20	4,20
Heating range (min.-max.)	kW	0,90 - 4,70	1,00 - 5,30
Power consumption (min./nom./max.)	kW	0,18/0,74/1,23	0,20/1,08/1,55
Energy efficiency COP	W/W	4,32	3,89
Energy efficiency SCOP		5,10	5,10
Energy efficiency class		A+++	A++
Outdoor temperature operating range (min.-max.)	°C	-15/+24	-15/+24
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10
Set price	€	1.800,-	2.080,-

INDOOR UNIT	RAS-B10N4KVRG-E	RAS-B13N4KVRG-E	RAS-B16N4KVRG-E
Airflow	m³/h	300-600	320-670
Sound pressure level (low/med/high)	dB(A)	19/-/41	19/-/43
Sound pressure level (low/med/high)	dB(A)	19/-/41	19/-/43
Dimensions (HxWxD)	mm	300 x 987 x 210	300 x 987 x 210
Weight	kg	11	11
Price	€	880,-	960,-

OUTDOOR UNIT	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1
Sound pressure level (low/med/high)	dB(A)	44	46
Sound pressure level (low/med/high)	dB(A)	46	48
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)
Pipe length (min.)	m	2	2
Pipe length (max.)	m	20	20
Height difference (max.)	m	12	12
Compressor type		Rotary	Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	0,55	0,80
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290
Weight	kg	26	30
Price	€	920,-	1.120,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	✓	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		105,-
RB-I4101-E	Fabric cover Dark Gray enclosed	✓	
RB-I4102-E	Fabric cover Light Gray enclosed	✓	
RB-I4103-E	Fabric cover Bluish Gray		125,-
RB-I4104-E	Fabric cover Gray Beige		125,-
RB-I4105-E	Fabric cover Dark Brown		125,-
RB-I4106-E	Fabric cover Emerald Blue		125,-
818F0050	Ultra-pure 2.5 filter strips	✓	
818F0023	Active carbon-catechin filter strips		33,-
818F0036	IAQ filter strips		52,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

DAISEIKAI 9 / Set



While stocks last



- › PREMIUM Line with 3D airflow
- › A+++ for cooling & heating
- › Dust filter, plasma filter with ionizer
- › WiFi module optional

DAISEIKAI

INDOOR UNIT OUTDOOR UNIT	RAS-10PKVPG-E RAS-10PAVPG-E	RAS-13PKVPG-E RAS-13PAVPG-E	RAS-16PKVPG-E RAS-16PAVPG-E	
Cooling capacity	kW	2,50	3,50	4,50
Cooling range (min.-max.)	kW	0,80 - 3,50	0,90 - 4,10	0,90 - 5,10
Power consumption (min./nom./max.)	kW	0,15/0,45/0,82	0,18/0,75/1,00	0,18/1,08/1,38
Energy efficiency EER	W/W	5,56	4,67	4,17
Energy efficiency SEER		10,60	9,50	8,50
Energy efficiency class		A+++	A+++	A+++
Outdoor temperature operating range (min.-max.)	°C	-15/+46	-15/+46	-15/+46
Heating capacity	kW	3,20	4,00	4,50
Heating range (min.-max.)	kW	0,70 - 5,80	0,80 - 6,30	0,80 - 6,80
Power consumption (min./nom./max.)	kW	0,15/0,60/1,55	0,17/0,80/2,00	0,17/1,37/2,05
Energy efficiency COP	W/W	5,33	5,00	4,01
Energy efficiency SCOP		5,20	5,10	4,60
Energy efficiency class		A+++	A+++	A++
Outdoor temperature operating range (min.-max.)	°C	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	10
Set price	€	2.200,-	2.425,-	3.090,-

INDOOR UNIT	RAS-10PKVPG-E	RAS-13PKVPG-E	RAS-16PKVPG-E	
Airflow	m³/h	690	710	730
Sound pressure level (low/med/high)	dB(A)	20/33/44	20/34/45	22/35/46
Sound pressure level (low/med/high)	dB(A)	20/33/44	20/34/45	22/35/46
Dimensions (HxWxD)	mm	293 x 851 x 270	293 x 851 x 270	293 x 851 x 270
Weight	kg	14	14	14
Price	€	780,-	820,-	935,-

OUTDOOR UNIT	RAS-10PAVPG-E	RAS-13PAVPG-E	RAS-16PAVPG-E	
Sound pressure level (low/med/high)	dB(A)	46	48	49
Sound pressure level (low/med/high)	dB(A)	47	50	50
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (1/2)
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)	6,3 (1/4)
Pipe length (min.)	m	2	2	2
Pipe length (max.)	m	25	25	25
Height difference (max.)	m	10	10	10
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	1,00	1,00	1,00
Dimensions (HxWxD)	mm	630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
Weight	kg	43	43	43
Price	€	1.420,-	1.605,-	2.155,-

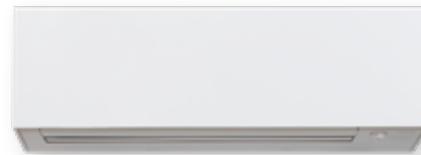
ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya Classic, Seiya, Shorai Edge, Daiseikai 9		115,-
818F0023	Active carbon-catechin filter strips		33,-
818F0036	IAQ filter strips		52,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

You will find all the control options on page 33.

DAISEIKAI 10 White / Set



- › PREMIUM Line in white plastic design
- › A+++ for cooling and heating
- › Dust filter, plasma ionizer, and ultra pure filter
- › WiFi module integrated as standard
- › Energy monitoring, HADA careflow, smart sensing



DAISEIKAI

INDOOR UNIT OUTDOOR UNIT	RAS-B10S4KVPG-E RAS-10S4AVPG-E	RAS-B13S4KVPG-E RAS-13S4AVPG-E	RAS-B18S4KVPG-E RAS-18S4AVPG-E
Cooling capacity	kW	2,50	3,50
Cooling range (min.-max.)	kW	0,60 - 3,50	0,90 - 4,20
Power consumption (min./nom./max.)	kW	0,16/0,47/0,82	0,20/0,80/1,10
Energy efficiency EER	W/W	5,32	4,38
Energy efficiency SEER		10,70	9,70
Energy efficiency class		A+++	A+++
Outdoor temperature operating range (min.-max.)	°C	-15/+46	-15/+46
Heating capacity	kW	3,20	4,00
Heating range (min.-max.)	kW	0,65 - 5,80	0,70 - 6,30
Power consumption (min./nom./max.)	kW	0,16/0,60/1,55	0,18/0,80/1,60
Energy efficiency COP	W/W	5,33	5,00
Energy efficiency SCOP		5,30	5,20
Energy efficiency class		A+++	A+++
Outdoor temperature operating range (min.-max.)	°C	-20/+24	-20/+24
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10
Set price	€	2.400,-	3.400,-

INDOOR UNIT	RAS-B10S4KVPG-E	RAS-B13S4KVPG-E	RAS-B18S4KVPG-E
Airflow	m³/h	300-700	330-750
Sound pressure level (low/med/high)	dB(A)	24/-/40	26/-/41
Sound pressure level (low/med/high)	dB(A)	25/-/41	24/-/42
Dimensions (HxWxD)	mm	293 x 930 x 255	293 x 930 x 255
Weight	kg	14	14
Price	€	1.050,-	1.150,-

OUTDOOR UNIT	RAS-10S4AVPG-E	RAS-13S4AVPG-E	RAS-18S4AVPG-E
Sound pressure level (low/med/high)	dB(A)	--/-/44	--/-/45
Sound pressure level (low/med/high)	dB(A)	--/-/45	--/-/46
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)
Pipe length (min.)	m	2	2
Pipe length (max.)	m	25	25
Height difference (max.)	m	15	15
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	0,96	0,96
Dimensions (HxWxD)	mm	630 x 800 x 300	630 x 800 x 300
Weight	kg	38	38
Price	€	1.350,-	1.500,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
818F0023	Active carbon-catechin filter strips		33,-
818F0036	IAQ filter strips		52,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

You will find all the control options on page 33.

DAISEIKAI 10 Wood / Set



- PREMIUM Line in ash wood design
- › A+++ for cooling and heating
- › Dust filter, plasma ionizer, and ultra pure filter
- › WiFi module integrated as standard
- › Energy monitoring, HADA careflow, smart sensing

INDOOR UNIT OUTDOOR UNIT	RAS-B10S4KVDG-E RAS-10S4AVPG-E	RAS-B13S4KVDG-E RAS-13S4AVPG-E	RAS-B18S4KVDG-E RAS-18S4AVPG-E
Cooling capacity	kW 2,50	3,50	5,00
Cooling range (min.-max.)	kW 0,60 - 3,50	0,90 - 4,20	0,90 - 6,00
Power consumption (min./nom./max.)	kW 0,16/0,47/0,82	0,20/0,80/1,10	0,20/1,40/2,20
Energy efficiency EER	W/W 5,32	4,38	3,57
Energy efficiency SEER	10,70	9,70	8,60
Energy efficiency class	A+++	A+++	A+++
Outdoor temperature operating range (min.-max.)	°C -15/+46	-15/+46	-15/+46
Heating capacity	kW 3,20	4,00	6,00
Heating range (min.-max.)	kW 0,65 - 5,80	0,70 - 6,30	0,80 - 7,20
Power consumption (min./nom./max.)	kW 0,16/0,60/1,55	0,18/0,80/1,60	0,19/1,45/1,90
Energy efficiency COP	W/W 5,33	5,00	4,14
Energy efficiency SCOP	5,30	5,20	4,80
Energy efficiency class	A+++	A+++	A+++
Outdoor temperature operating range (min.-max.)	°C -20/+24	-20/+24	-20/+24
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10
Set price	€	2.600,-	2.900,-

INDOOR UNIT	RAS-B10S4KVDG-E	RAS-B13S4KVDG-E	RAS-B18S4KVDG-E
Airflow	m³/h	300-700	330-750
Sound pressure level (low/med/high)	dB(A) 24/-/40	26/-/41	25/-/44
Sound pressure level (low/med/high)	dB(A) 25/-/41	24/-/42	26/-/45
Dimensions (HxWxD)	mm	293 x 940 x 257	293 x 940 x 257
Weight	kg	16	16
Price	€	1.250,-	1.400,-

OUTDOOR UNIT	RAS-10S4AVPG-E	RAS-13S4AVPG-E	RAS-18S4AVPG-E
Sound pressure level (low/med/high)	dB(A) --/-/44	--/-/45	--/-/47
Sound pressure level (low/med/high)	dB(A) --/-/45	--/-/46	--/-/49
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)
Pipe length (min.)	m	2	2
Pipe length (max.)	m	25	25
Height difference (max.)	m	15	15
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	0,96	0,96
Dimensions (HxWxD)	mm	630 x 800 x 300	630 x 800 x 300
Weight	kg	38	38
Price	€	1.350,-	1.500,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
818F0023	Active carbon-catechin filter strips		33,-
818F0036	IAQ filter strips		52,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

You will find all the control options on page 33.

Console / Set



- › Bi-flow console with variable air outlet
- › A++ for cooling and heating – with floor heating effect
- › Large-area dust filter and IAQ filter
- › Prepared for optional leak detection



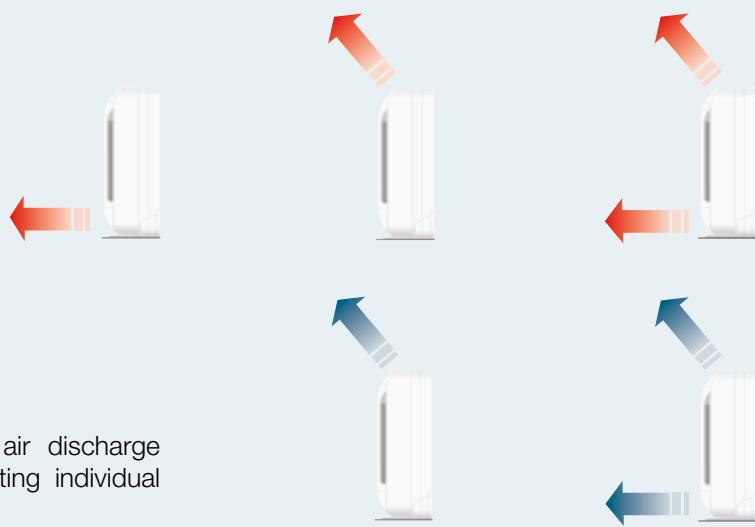
INDOOR UNIT OUTDOOR UNIT		RAS-B10J2FVG-E RAS-10J2AVSG-E1	RAS-B13J2FVG-E RAS-13J2AVSG-E1	RAS-B18J2FVG-E RAS-18J2AVSG-E1
Cooling capacity	kW	2,50	3,50	5,00
Cooling range (min.-max.)	kW	0,95 - 3,20	1,05 - 4,10	1,20 - 5,60
Power consumption (min./nom./max.)	kW	0,21/0,59/0,90	0,27/0,87/1,20	0,34/1,68/2,00
Energy efficiency EER	W/W	4,24	4,02	2,98
Energy efficiency SEER		7,20	7,00	6,80
Energy efficiency class		A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-15/+46	-15/+46	-15/+46
Heating capacity	kW	3,20	4,20	6,00
Heating range (min.-max.)	kW	0,85 - 4,40	1,00 - 5,00	1,30 - 6,30
Power consumption (min./nom./max.)	kW	0,18/0,82/1,25	0,22/1,27/1,55	0,31/2,05/2,20
Energy efficiency COP	W/W	3,90	3,31	2,93
Energy efficiency SCOP		4,70	4,70	4,60
Energy efficiency class		A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	16
Set price	€	2.080,-	2.390,-	3.245,-

INDOOR UNIT		RAS-B10J2FVG-E	RAS-B13J2FVG-E	RAS-B18J2FVG-E
Airflow	m³/h	258-492	288-552	366-600
Sound pressure level (low/med/high)	dB(A)	23/-/39	24/-/40	31/46
Sound pressure level (low/med/high)	dB(A)	23/-/39	24/-/40	31/47
Dimensions (HxWxD)	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
Weight	kg	16	16	16
Price	€	1.160,-	1.270,-	1.530,-

OUTDOOR UNIT		RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-18J2AVSG-E1
Sound pressure level (low/med/high)	dB(A)	-/-/44	-/-/46	49
Sound pressure level (low/med/high)	dB(A)	-/-/46	-/-/48	51
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m	2	2	2
Pipe length (max.)	m	20	20	20
Height difference (max.)	m	12	12	12
Compressor type		Rotary	Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	0,55	0,80	1,10
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg	26	30	34
Price	€	920,-	1.120,-	1.715,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		105,-
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / Seiya, console		120,-
818F0023	Active carbon-catechin filter strips		33,-
818F0036	IAQ filter strips		52,-
818F0072	Ultra-Fresh filter strips		36,-
RB-I301-E	Leak detection sensor for J2FVG-E model type consoles		255,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

You will find all the control options on page 33.



Many different settings for the air discharge direction are possible, thus meeting individual requirements.

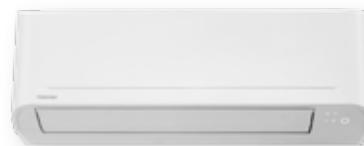


INVERTER MULTI-SYSTEMS: Indoor units

SEIYA Classic



- › CLASSIC Line compact inverter
- › Dust filter
- › WiFi module optional



SEIYA



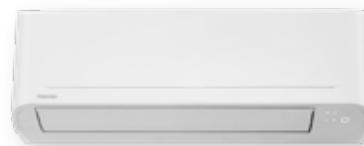
INDOOR UNIT	RAS-B07B2KVG-E	RAS-B10B2KVG-E	RAS-B13B2KVG-E	RAS-B16B2KVG-E	RAS-B18B2KVG-E	RAS-B24B2KVG-E
Cooling capacity	kW	2,00	2,50	3,30	4,20	5,00
Sound pressure level (low/med/high)	dB(A)	19/-/40	19/-/41	20/-/42	22/-/44	26/-/47
Heating capacity	kW	2,50	3,20	3,60	5,00	5,40
Sound pressure level (low/med/high)	dB(A)	19/-/39	20/-/40	20/-/42	23/-/43	26/-/48
Airflow	m³/h	200-500	230-620	230-650	330-760	480-790
Dimensions (HxWxD)	mm	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230
Weight	kg	9	9	9	10	10
Price	€	350,-	350,-	360,-	380,-	450,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

SEIYA



- › BASIC Line compact inverter
- › Dust filter and ultra fresh filter
- › WiFi module optional



SEIYA



INDOOR UNIT	RAS-B07E2KVG-E	RAS-B10E2KVG-E	RAS-B13E2KVG-E	RAS-B16E2KVG-E	RAS-B18E2KVG-E	RAS-B24E2KVG-E
Cooling capacity	kW	2,00	2,50	3,30	4,20	5,00
Sound pressure level (low/med/high)	dB(A)	19/-/38	19/-/39	20/-/41	21/-/43	26/-/47
Heating capacity	kW	2,50	3,20	3,60	5,00	5,40
Sound pressure level (low/med/high)	dB(A)	19/-/38	20/-/39	20/-/42	22/-/43	26/-/48
Airflow	m³/h	500	510	560	760	840
Dimensions (HxWxD)	mm	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230
Weight	kg	9	9	9	9	15
Price	€	380,-	390,-	400,-	420,-	500,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 33.

SHORAI Edge White



- › HIGH Line allrounder with design and function update
- › High efficiency: energy class A+++
- › Clean air: dust filter & ultra pure filter
- › APP control: WiFi module integrated as standard



INDOOR UNIT	RAS-B07G3KVSG-E	RAS-B10G3KVSG-E	RAS-B13G3KVSG-E	RAS-B16G3KVSG-E	RAS-B18G3KVSG-E	RAS-B22G3KVSG-E	RAS-B24G3KVSG-E
Cooling capacity	kW	2,00	2,50	3,50	4,60	5,00	6,10
Sound pressure level (low/med/high)	dB(A)	19/22/40	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45
Heating capacity	kW	2,50	3,20	4,20	5,50	6,00	7,00
Sound pressure level (low/med/high)	dB(A)	19/23/40	19/23/40	19/23/43	22/26/44	26/31/44	27/34/46
Airflow	m³/h	660	660	732	750	990	1032
Dimensions (HxWxD)	mm	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245			
Weight	kg	10	10	10	10	14	14
Price	€	690,-	695,-	745,-	800,-	850,-	975,-
							1.140,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

SHORAI Edge Black



- › HIGH Line allrounder with design and function update
- › High efficiency: energy class A+++
- › Clean air: dust filter & ultra pure filter
- › APP control: WiFi module integrated as standard



INDOOR UNIT	RAS-B10G3KVSGB-E	RAS-B13G3KVSGB-E	RAS-B16G3KVSGB-E	RAS-B18G3KVSGB-E	RAS-B22G3KVSGB-E	RAS-B24G3KVSGB-E
Cooling capacity	kW	2,50	3,50	4,60	5,00	6,10
Sound pressure level (low/med/high)	dB(A)	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45
Heating capacity	kW	3,20	4,20	5,50	6,00	7,00
Sound pressure level (low/med/high)	dB(A)	19/23/40	19/23/43	22/26/44	26/31/44	27/34/46
Airflow	m³/h	660	732	750	990	1032
Dimensions (HxWxD)	mm	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245
Weight	kg	10	10	10	14	14
Price	€	780,-	830,-	920,-	980,-	1.120,-
						1.320,-

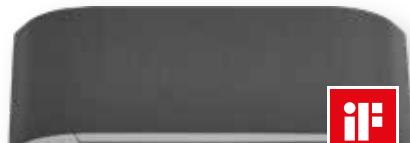
ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 33.

HAORI



- › Design unit with innovative textile cover
- › Dust filter, ozone air purifier, and ultra pure filter
- › WiFi module integrated as standard



HAORI



INDOOR UNIT	RAS-B10N4KVRG-E	RAS-B13N4KVRG-E	RAS-B16N4KVRG-E
Cooling capacity	kW	2,50	3,50
Sound pressure level (low/med/high)	dB(A)	19/-/41	19/-/43
Heating capacity	kW	3,20	4,20
Sound pressure level (low/med/high)	dB(A)	19/-/41	19/-/43
Airflow	m³/h	300/610	320/670
Dimensions (HxWxD)	mm	300 x 987 x 210	300 x 987 x 210
Weight	kg	11	11
Price	€	880,-	960,-
			1.015,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	✓	
RB-I4101-E	Fabric cover Dark Gray enclosed	✓	
RB-I4102-E	Fabric cover Light Gray enclosed	✓	
RB-I4103-E	Fabric cover Bluish Gray		125,-
RB-I4104-E	Fabric cover Gray Beige		125,-
RB-I4105-E	Fabric cover Dark Brown		125,-
RB-I4106-E	Fabric cover Emerald Blue		125,-

DAISEIKAI 9



- › Premium model with 3D airflow
- › Dust filter, plasma filter with ionizer
- › WiFi module can be integrated into the indoor unit



DAISEIKAI

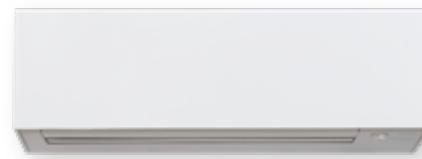


INDOOR UNIT	RAS-M10PKVPG-E	RAS-M13PKVPG-E	RAS-M16PKVPG-E
Cooling capacity	kW	2,50	3,50
Sound pressure level (low/med/high)	dB(A)	20/42	20/43
Heating capacity	kW	3,20	4,00
Sound pressure level (low/med/high)	dB(A)	20/44	20/44
Airflow	m³/h	726	726
Dimensions (HxWxD)	mm	293 x 851 x 270	293 x 851 x 270
Weight	kg	14	14
Price	€	780,-	820,-
			935,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 33.

DAISEIKAI 10 White



- › PREMIUM Line in white plastic design
- › Dust filter, ultra pure filter, plasma filter with ionizer
- › WiFi module integrated as standard

INDOOR UNIT	RAS-B10S4KPG-E	RAS-B13S4KPG-E	RAS-B18S4KPG-E
Cooling capacity	kW	2,50	3,50
Sound pressure level (low/med/high)	dB(A)	24/-/40	26/-/41
Heating capacity	kW	3,20	4,00
Sound pressure level (low/med/high)	dB(A)	25/-/41	24/-/42
Airflow	m³/h	300-700	330-750
Dimensions (HxWxD)	mm	293 x 930 x 255	293 x 930 x 255
Weight	kg	14	14
Price	€	1.050,-	1.150,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

DAISEIKAI 10 Wood



- › PREMIUM Line in ash wood design (WOOD)
- › Dust filter, ultra pure filter, plasma filter with ionizer
- › WiFi module integrated as standard

INDOOR UNIT	RAS-B10S4KVDG-E	RAS-B13S4KVDG-E	RAS-B18S4KVDG-E
Cooling capacity	kW	2,50	3,50
Sound pressure level (low/med/high)	dB(A)	24/-/40	26/-/41
Heating capacity	kW	3,20	4,00
Sound pressure level (low/med/high)	dB(A)	25/-/41	24/-/42
Airflow	m³/h	300-700	330-750
Dimensions (HxWxD)	mm	293 x 940 x 257	293 x 940 x 257
Weight	kg	16	16
Price	€	1.250,-	1.400,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 33.

Console



- › Bi-flow console with variable air outlet
- › Large-area dust filter and IAQ filter
- › Prepared for optional leak detection



INDOOR UNIT	RAS-B10J2FVG-E	RAS-B13J2FVG-E	RAS-B18J2FVG-E
Cooling capacity	kW	2,50	3,50
Sound pressure level (low/med/high)	dB(A)	26/32/39	27/33/40
Heating capacity	kW	3,20	4,20
Sound pressure level (low/med/high)	dB(A)	26/32/39	27/33/40
Airflow	m³/h	258/492	270/528
Dimensions (HxWxD)	mm	600 x 700 x 220	600 x 700 x 220
Weight	kg	16	16
Price	€	1.160,-	1.270,-
			1.530,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

60x60 slim cassette



- › Euro-grid cassette with 360° air distribution & presence sensor option
- › Slim design panel with individual airflow patterns
- › Large-area dust filter
- › Accessories required: remote control + panel



INDOOR UNIT	RAS-M10U2MUVG-E	RAS-M13U2MUVG-E	RAS-M16U2MUVG-E
Cooling capacity	kW	2,70	3,70
Sound pressure level (low/med/high)	dB(A)	30/-/37	33/-/39
Heating capacity	kW	4,00	5,00
Sound pressure level (low/med/high)	dB(A)	30/-/37	32/-/39
Airflow	m³/h	590/430	620/430
Dimensions (HxWxD)	mm	256 x 575 x 575	256 x 575 x 575
Weight	kg	15	15
Panel dimensions (HxWxD)	mm	16 x 620 x 620	16 x 620 x 620
Panel weight	kg	3	3
Price	€	1.215,-	1.285,-
			1.325,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21PG(W)-E	Panel for 60x60 slim cassette	440,-
RBC-AXU31UM-E	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	180,-
RB-RWS21-E	Wired remote control with weekly timer	330,-

You will find the accessories on page 33.

Duct unit



- › Minimal installation height of just 210 mm
- › External static pressure adjustable up to 45 Pa
- › Drain pump included



INDOOR UNIT	RAS-M10U2DVG-E	RAS-M13U2DVG-E	RAS-M16U2DVG-E	RAS-M22U2DVG-E	RAS-M24U2DVG-E
Cooling capacity	kW	2,70	3,70	4,50	6,00
Sound pressure level (low/med/high)	dB(A)	27/35	27/37	24/35	32/38
Heating capacity	kW	4,00	5,00	5,50	7,00
Sound pressure level (low/med/high)	dB(A)	27/35	27/37	25/35	32/38
Airflow	m³/h	570	610	780	1000
External static pressure	Pa	10/20/ 35/45	10/20/ 35/45	10/20/ 35/45	10/20/ 35/45
Dimensions (HxWxD)	mm	210 x 700 x 450	210 x 700 x 450	210 x 900 x 450	210 x 1100 x 450
Weight	kg	16	16	19	22
Price	€	1.360,-	1.380,-	1.480,-	1.720,-
					1.740,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RB-RWS21-E	Wired remote control with weekly timer		330,-

You will find the accessories on page 33.



INVERTER MULTI-SYSTEMS: Outdoor units

Multi-split



- The new generation of multi outdoor units
- Up to 5 indoor units can be connected
- Energy efficiency up to A++, depending on combination
- Supports energy monitoring for SEIYA, HAORI, SHORAI EDGE BLACK & WHITE and DAISEIKAI 10



RAS-2M14G3AVG-E

RAS-2M18G3AVG-E
RAS-3M18G3AVG-ERAS-3M26G3AVG-E
RAS-4M27G3AVG-E
RAS-5M34G3AVG-E

OUTDOOR UNIT	2-ROOM MULTISPLIT		3-ROOM MULTISPLIT		4-ROOM MULTISPLIT		5-ROOM MULTISPLIT	
	RAS-2M14G3AVG-E	RAS-2M18G3AVG-E	RAS-3M18G3AVG-E	RAS-3M26G3AVG-E	RAS-4M27G3AVG-E	RAS-5M34G3AVG-E		
Cooling capacity	kW	4,00	5,20	5,20	7,00	8,00	10,00	
Cooling range (min.-max.)	kW	1,50 - 4,90	1,60 - 6,50	2,00 - 7,50	2,00 - 9,00	2,00 - 10,00	2,50 - 11,50	
Power consumption (min./nom./max.)	kW	0,85	1,20	1,00	1,75	1,90	2,60	
Energy efficiency EER	W/W	4,71	4,33	5,20	4,00	4,21	3,85	
Energy efficiency SEER		8,70	8,70	8,60	8,50	8,30	7,20	
Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++	
Outdoor temperature operating range (min.-max.)	°C	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46	
Heating capacity	kW	4,40	5,60	6,80	8,70	9,00	12,00	
Outdoor temperature operating range (min.-max.)	°C	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	
Power consumption (min./nom./max.)	kW	0,90	1,14	1,45	2,00	1,90	2,80	
Energy efficiency COP	W/W	4,89	4,91	4,69	4,35	4,74	4,29	
Energy efficiency SCOP		4,80	4,80	4,80	4,60	4,50	4,30	
Energy efficiency class		A++	A++	A++	A++	A++	A++	
Heating range (min.-max.)	kW	1,00 - 5,20	1,30 - 8,20	1,90 - 8,30	2,00 - 11,50	2,00 - 12,00	2,20 - 14,20	
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	
Recommended fusing	A	10	16	16	16	20	20	
Sound pressure level (low/med/high)	dB(A)	49	48	48	50	50	52	
Sound pressure level (low/med/high)	dB(A)	52	50	52	52	52	56	
Pipe length (max.)	m	30	30	50	70	70	80	
Pipe length/indoor unit (min.)	m	2	2	2	2	2	2	
Pipe length/indoor unit (max.)	m	20	20	25	25	25	25	
Height difference (max.)	m	10	10	10	15	15	15	
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	
Refrigerant		R32	R32	R32	R32	R32	R32	
Refrigerant charge	kg	0,95	1,20	1,25	1,90	2,05	2,39	
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 800 x 300	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	
Weight	kg	35	43	44	72	72	78	
Price	€	1.780,-	1.910,-	2.650,-	3.050,-	3.350,-	3.850,-	

Table of inverter multi-system combinations

Overview of multisplit indoor units

INDOOR UNIT SIZES	07	10	13	16	18	22	24
INDOOR UNIT COOLING CAPACITY	2.0 kW	2.5 kW	3.5 kW	4.5 kW	5.0 kW	6.0 kW	7.0 kW
SEIYA CLASSIC RAS-B**B2KVG-E		●	●	●	●	●	●
SEIYA RAS-B**E2KVG-E		●	●	●	●	●	●
SHORAI Edge Black & White RAS-B**G3KVSG(B)-E		● White only	●	●	●	●	●
HAORI RAS-B**N4KVRG-E			●	●	●		
DAISEIKAI 9 RAS-M**PKVPG-E			●	●	●		
DAISEIKAI 10 White & Wood RAS-B**S4KVPGE-E RAS-B**S4KVDGE-E			●	●	●		
Console RAS-B**J2FVG-E			●	●	●		
60x60 slim cassette RAS-M**U2MUVG-E			●	●	●		
Duct unit RAS-M**U2DVG-E			●	●	●	●	●

● Available indoor unit sizes

Multisplit combination options

INDOOR UNIT SIZES	07	10	13	16	18	22	24
INDOOR UNIT COOLING CAPACITY	2.0 kW	2.5 kW	3.5 kW	4.5 kW	5.0 kW	6.0 kW	7.0 kW
2 rooms RAS-2M14G3AVG-E Outdoor unit cooling capacity: 4.0 kW		●	●	●			
2 rooms RAS-2M18G3AVG-E Outdoor unit cooling capacity: 5.2 kW		●	●	●	●		
3 rooms RAS-3M18G3AVG-E Outdoor unit cooling capacity: 5.2 kW		●	●	●	●		
3 rooms RAS-3M26G3AVG-E Outdoor unit cooling capacity: 7.5 kW		●	●	●	●	●	●
4 rooms RAS-4M27G3AVG-E Outdoor unit cooling capacity: 8.0 kW		●	●	●	●	●	●
5 rooms RAS-5M34G3AVG-E Outdoor unit cooling capacity: 10.0 kW		●	●	●	●	●	●

● Outdoor units compatible with indoor units

Combination table, number and size of indoor units

OUTDOOR UNIT	RAS-2M14G3AVG-E	RAS-2M18G3AVG-E	RAS-3M18G3AVG-E	RAS-3M26G3AVG-E			
1 unit *	07 10 13	07 10 13 16	07 10 13 16	07 10 13 16 18 22 24			
2 units	10+07 10+10 13+07 13+10 13+13	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16 18+07 18+10 18+13			
3 units			07+07+07 10+07+07 10+10+07 10+10+10 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 16+07+07 16+10+10 16+13+07	07+07+07 10+07+07 10+10+07 10+10+10 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 16+07+07 16+10+07 16+10+10	16+13+07 16+13+10 16+13+13 16+16+07 16+16+10 16+16+13 16+16+16 16+16+16 18+07+07 18+10+07 18+10+10 18+07+13 18+13+10 18+13+13	18+16+07 18+16+10 18+16+13 18+16+16 22+07+07 22+10+07 22+10+10 22+10+13 22+13+10 22+16+07 22+16+10 22+16+13	22+16+16 22+07+07 22+10+10 22+13+13 24+13+10 24+16+07 24+16+10 24+16+13
4 units							
5 units							

* 1 unit for cooling mode only

RAS-4M27G3AVG-E

RAS-5M34G3AVG-E

07			07		
10			10		
13			13		
16			16		
18			18		
22			22		
24			24		
07+07			07+07		
10+07	18+16		10+07		18+18
10+10	18+18		10+10		22+07
13+07	22+07		13+07		22+10
13+10	22+10		13+10		22+13
13+13	22+13		13+13		22+16
16+07	22+16		16+07		22+18
16+10	22+18		16+10		22+22
16+13	24+07		16+13		24+07
16+16	24+10		16+16		24+10
18+07	24+13		18+07		24+13
18+10	24+16		18+10		24+16
18+13	24+18		18+13		24+18
07+07+07			07+07+07		
10+07+07	16+13+10	18+16+13	22+18+07	16+16+07	22+07+07
10+07+07	16+13+13	18+18+07	22+18+10	16+16+13	22+10+07
10+10+07	16+16+07	18+18+10	22+18+13	16+16+16	22+07+13
10+10+10	16+16+10	18+18+13	24+07+07	13+07+07	22+13+10
13+07+07	16+16+13	22+07+07	24+10+07	18+07+07	22+13+13
13+10+07	16+16+16	22+10+07	24+10+10	13+10+10	22+16+07
13+10+10	18+07+07	22+10+10	24+13+07	13+13+07	22+16+10
13+13+07	18+10+07	22+07+13	24+13+10	13+13+10	22+16+13
13+13+10	18+10+10	22+13+10	24+13+13	13+13+13	22+18+07
13+13+13	18+07+13	22+13+13	24+16+07	16+07+07	22+18+10
16+07+07	18+13+10	22+13+13	24+16+10	16+10+07	22+18+13
16+10+07	18+13+10	22+16+07	24+16+10	16+10+10	22+22+07
16+10+10	18+13+13	22+16+10	24+16+13	16+10+10	22+22+10
16+13+07	18+16+07	22+16+13	24+18+07	16+13+07	24+24+07
07+07+07+07			07+07+07+07		
10+07+07+07	16+13+13+07	18+16+13+07	22+18+13+07	16+16+07+07	24+10+10+07
10+07+07+07	16+13+13+10	18+18+07+07	22+18+13+10	16+16+10+07	24+13+07+07
10+10+07+07	16+16+07+07	10+10+07+07	24+10+07+07	16+16+10+10	24+13+10+07
10+10+10+07	16+16+10+07	10+10+10+10	24+10+10+07	16+16+13+07	24+10+10+10
10+10+10+10	16+16+10+07	13+07+07+07	24+10+10+07	16+16+13+10	24+13+07+07
13+07+07+07	16+16+10+10	13+07+07+07	24+10+10+07	16+16+10+10	24+13+10+07
13+10+07+07	16+16+13+07	13+10+07+07	24+10+10+07	18+10+07+07	24+13+10+07
13+10+10+07	18+07+07+07	13+10+10+10	24+13+10+07	18+10+10+07	24+13+10+07
13+13+07+07	18+10+07+07	13+13+07+07	24+13+10+07	18+13+07+07	24+13+13+07
13+13+10+07	18+10+10+07	13+13+10+10	24+13+10+07	18+13+10+07	24+13+13+10
13+13+13+07	18+10+10+10	13+13+13+07	24+13+10+07	18+13+13+10	24+16+07+07
13+13+13+10	18+13+10+07	13+13+13+10	24+13+10+07	18+13+13+10	24+16+10+07
13+13+13+13	18+13+10+10	13+13+13+13	24+13+10+07	18+13+13+10	24+16+13+07
13+10+10+10	18+10+10+07	13+10+10+10	24+13+10+07	18+10+10+10	24+16+13+10
13+10+10+10	18+10+10+10	13+10+10+10	24+13+10+07	18+10+10+10	24+16+13+13
13+13+07+07	18+16+10+07	13+13+07+07	24+16+10+07	18+16+10+07	24+18+07+07
16+07+07+07	18+16+10+10	13+13+07+07	24+16+10+07	18+16+10+10	24+18+10+07
16+10+10+07	18+16+13+07	13+13+07+07	24+16+10+07	18+16+13+10	24+18+10+10
16+10+10+10	18+18+07+07	13+13+07+07	24+18+07+07	18+16+13+13	24+18+13+07
16+13+07+07	18+18+10+07	13+13+10+10	24+18+07+07	18+18+07+07	24+18+13+10
16+13+10+07	18+18+10+07	13+13+10+10	24+18+07+07	18+18+13+07	24+18+13+13
16+13+10+10	18+18+10+07	13+13+10+10	24+18+07+07	18+18+13+10	24+18+13+13
16+13+10+10	18+18+10+07	16+13+13+10	24+18+07+07	18+18+13+13	24+18+13+13
07+07+07+07+07			07+07+07+07+07		
10+07+07+07+07	16+13+13+13	18+18+13+13	22+18+13+13	16+16+07+07	24+07+07+07
10+07+07+07+07	16+13+13+10	18+18+13+10	22+18+13+10	16+16+10+07	24+10+07+07
10+10+07+07+07	16+16+07+07	10+10+07+07	24+10+07+07	16+16+10+10	24+10+07+07
10+10+10+07+07	16+16+10+07	10+10+10+10	24+10+07+07	16+16+13+07	24+13+07+07
10+10+10+10+07	16+16+10+10+07	16+13+07+07+07	24+10+07+07	16+10+07+07	22+13+10+07+07
10+10+10+10+10	16+16+10+10+10	13+07+07+07+07	24+10+07+07	16+10+07+07	22+13+13+10+07
13+07+07+07+07	16+13+10+07+07	16+13+10+07+07	24+10+07+07	18+10+07+07	22+13+10+07+07
13+10+07+07+07	16+13+10+10+07	16+13+10+10+07	24+10+07+07	18+13+07+07	22+13+13+10+07
13+10+10+07+07	16+13+13+07+07	16+13+13+07+07	24+10+07+07	18+13+13+07	22+13+13+10+07
13+10+10+10+07	16+13+13+10+07	16+13+13+10+07	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+07+07+07	16+13+13+10+10	16+13+13+10+10	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+10+07+07	16+13+13+13+07	16+13+13+13+07	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+10+10+07	16+13+13+13+10	16+13+13+13+10	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+07+07	16+13+13+13+10	16+13+13+13+10	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+10+07	16+13+13+13+13	16+13+13+13+13	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+10+10	16+13+13+13+13	16+13+13+13+13	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+13+07	16+13+13+13+13	16+13+13+13+13	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+13+10	16+13+13+13+13	16+13+13+13+13	24+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+13+13	16+13+13+13+13	16+13+13+13+13	24+10+07+07	18+13+13+10	22+13+13+13+07
16+07+07+07+07			16+07+07+07+07		
10+07+07+07+07	16+13+13+13+13	18+18+13+13+13	22+18+13+13+13	16+16+07+07	24+07+07+07+07
10+07+07+07+07	16+13+13+13+13	18+18+13+13+13	22+18+13+13+13	16+16+13+13+10	22+10+10+07+07
10+10+07+07+07	16+16+10+07+07	18+07+07+07+07	22+10+10+07+07	16+16+13+13+10	22+10+10+07+07
10+10+10+07+07	16+16+10+10+07	18+07+07+07+07	22+10+10+07+07	16+16+13+13+10	22+13+07+07+07
10+10+10+10+07	16+16+10+10+10	18+07+07+07+07	22+10+10+07+07	16+16+13+13+10	22+13+07+07+07
10+10+10+10+10	16+16+10+10+10	16+13+07+07+07	22+10+10+07+07	16+10+07+07	22+13+10+07+07
13+07+07+07+07	16+13+10+07+07	16+13+10+07+07	22+10+10+07+07	18+10+07+07	22+13+10+07+07
13+10+07+07+07	16+13+10+10+07	16+13+10+10+07	22+10+10+07+07	18+13+07+07	22+13+13+07+07
13+10+10+07+07	16+13+13+07+07	16+13+13+07+07	22+10+10+07+07	18+13+13+07	22+13+13+07+07
13+10+10+10+07	16+13+13+10+07	16+13+13+10+07	22+10+10+07+07	18+13+13+10	22+13+13+10+07
13+13+07+07+07	16+13+13+10+10	16+13+13+10+10	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+10+07+07	16+13+13+13+07	16+13+13+13+07	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+10+10+07	16+13+13+13+10	16+13+13+13+10	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+07+07	16+13+13+13+10	16+13+13+13+10	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+10+07	16+13+13+13+13	16+13+13+13+13	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+10+10	16+13+13+13+13	16+13+13+13+13	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+13+07	16+13+13+13+13	16+13+13+13+13	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+13+10	16+13+13+13+13	16+13+13+13+13	22+10+10+07+07	18+13+13+10	22+13+13+13+07
13+13+13+13+13	16+13+13+13+13	16+13+13+13+13	22+10+10+07+07	18+13+13+10	22+13+13+13+07

Outdoor Units Quick View

TYPE	Pipe length (min.)	Pipe length (max.)	Pre-charged up to	Height difference (max.)	Pipe length/indoor unit (max.)	Suction gas pipe diameter	Liquid pipe diameter	Refrigerant charge	Added refrigerant charge
	m	m	m	m	m	mm (inch)	mm (inch)	kg	g/m
SEIYA CLASSIC									
RAS-07B2AVG-E	2	10	10	8	-	9,5 (3/8)	6,3 (1/4)	0,44	20
RAS-10B2AVG-E	2	10	10	8	-	9,5 (3/8)	6,3 (1/4)	0,49	20
RAS-13B2AVG-E	2	10	10	8	-	9,5 (3/8)	6,3 (1/4)	0,54	20
RAS-16B2AVG-E	2	15	10	8	-	12,7 (1/2)	6,3 (1/4)	0,68	20
RAS-18B2AVG-E	2	15	10	8	-	12,7 (1/2)	6,3 (1/4)	0,93	20
RAS-24B2AVG-E	2	15	10	8	-	12,7 (1/2)	6,3 (1/4)	1,23	20
SEIYA									
RAS-07E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (1/4)	0,34	20
RAS-10E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (1/4)	0,49	20
RAS-13E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (1/4)	0,54	20
RAS-16E2AVG-E	2	20	15	15	-	12,7 (1/2)	6,3 (1/4)	0,68	20
RAS-18E2AVG-E	2	20	15	15	-	12,7 (1/2)	6,3 (1/4)	0,93	20
RAS-24E2AVG-E	2	20	15	15	-	12,7 (1/2)	6,3 (1/4)	1,18	20
HAORI + SHORAI EDGE + CONSOLE									
RAS-07J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (1/4)	0,55	20
RAS-10J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (1/4)	0,55	20
RAS-13J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (1/4)	0,80	20
RAS-16J2AVSG-E1	2	20	15	12	-	12,7 (1/2)	6,3 (1/4)	0,80	20
RAS-18J2AVSG-E1	2	20	15	12	-	12,7 (1/2)	6,3 (1/4)	1,10	20
RAS-22J2AVSG-E1	2	20	15	12	-	12,7 (1/2)	6,3 (1/4)	1,10	20
RAS-24J2AVSG-E1	2	25	15	15	-	12,7 (1/2)	6,3 (1/4)	1,14	20
DAISEIKAI 9									
RAS-10PAVPG-E	2	25	15	12	-	9,5 (3/8)	6,3 (1/4)	1,00	20
RAS-13PAVPG-E	2	25	15	12	-	9,5 (3/8)	6,3 (1/4)	1,00	20
RAS-16PAVPG-E	2	25	15	12	-	12,7 (1/2)	6,3 (1/4)	1,00	20
DAISEIKAI 10									
RAS-10S4AVPG-E	2	25	15	15	-	9,5 (3/8)	6,3 (1/4)	0,96	20
RAS-13S4AVPG-E	2	25	15	15	-	9,5 (3/8)	6,3 (1/4)	0,96	20
RAS-18S4AVPG-E	2	25	15	15	-	12,7 (1/2)	6,3 (1/4)	0,96	20
MULTI-SPLIT									
RAS-2M14G3AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (1/4)	0,95	20
RAS-2M18G3AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (1/4)	1,20	20
RAS-3M18G3AVG-E	2	50	50	10	25	2x 9,5 (3/8), 1x 12,7 (1/2)	3x 6,3 (1/4)	1,25	20
RAS-3M26G3AVG-E	2	70	40	15	25	1x 9,5 (3/8), 2x 12,7 (1/2)	3x 6,3 (1/4)	1,90	20
RAS-4M27G3AVG-E	3	70	40	15	25	2x 9,5 (3/8), 2x 12,7 (1/2)	4x 6,3 (1/4)	2,05	20
RAS-5M34G3AVG-E	3	80	40	15	25	3x 9,5 (3/8), 2x 12,7 (1/2)	5x 6,3 (1/4)	2,39	20

Current Consumption + Fusing

TYPE	Current consumption (max.)	Current consumption (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW	kW	A	V/Ph+N/Hz		
SEIYA CLASSIC								
RAS-07B2AVG-E	-	-	0,20/0,60/0,74	0,16/0,64/0,94	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-10B2AVG-E	-	-	0,21/0,72/1,00	0,18/0,84/1,11	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13B2AVG-E	-	-	0,25/1,17/1,35	0,18/1,02/1,25	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16B2AVG-E	-	-	0,35/1,37/1,70	0,25/1,45/1,90	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18B2AVG-E	-	-	0,35/1,73/1,90	0,27/1,65/1,88	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24B2AVG-E	-	-	0,25/2,30/2,40	0,27/2,10/2,50	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
SEIYA								
RAS-07E2AVG-E	5,00	3,30	0,20/0,53/0,83	0,16/0,64/0,94	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-10E2AVG-E	7,20	4,30	0,20/0,70/1,00	0,18/0,86/1,11	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13E2AVG-E	7,40	5,38	0,25/1,10/1,25	0,18/0,92/1,25	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16E2AVG-E	9,00	6,34	0,34/1,27/1,60	0,24/1,34/1,70	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18E2AVG-E	9,25	6,13	0,34/1,50/1,80	0,26/1,50/1,80	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24E2AVG-E	12,00	8,81	0,41/2,25/2,60	0,29/2,10/2,55	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
HAORI + SHORAI EDGE + CONSOLE								
RAS-07J2AVSG-E1	4,50	-	0,19/0,39/0,67	0,16/0,50/0,80	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-10J2AVSG-E1	6,75	2,45	0,19/0,54/0,79	0,16/0,70/1,23	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13J2AVSG-E1	7,50	3,89	0,25/0,90/1,12	0,20/1,08/1,55	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16J2AVSG-E1	9,50	5,61	0,34/1,35/1,72	0,24/1,52/1,90	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18J2AVSG-E1	9,50	-	0,35/1,42/2,00	0,25/1,59/1,75	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-22J2AVSG-E1	10,50	-	0,36/1,99/2,20	0,26/1,88/2,10	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24J2AVSG-E1	12,50	-	0,38/2,25/2,55	0,29/2,35/2,75	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
DAISEIKAI 9								
RAS-10PAVPG-E	8,50	3,12	0,15/0,45/0,82	0,15/0,60/1,55	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13PAVPG-E	9,95	3,39	0,18/0,75/1,00	0,17/0,80/2,00	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16PAVPG-E	10,45	5,63	0,18/1,08/1,38	0,17/1,37/2,05	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
DAISEIKAI 10								
RAS-10S4AVPG-E	-	-	0,16/0,47/0,82	0,16/0,60/1,55	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13S4AVPG-E	-	-	0,20/0,80/1,10	0,18/0,80/1,60	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18S4AVPG-E	-	-	0,20/1,40/2,20	0,19/1,45/1,90	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
MULTI-SPLIT								
RAS-2M14G3AVG-E	10,50	4,20	0,85	0,90	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-2M18G3AVG-E	11,50	5,50	1,20	1,14	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M18G3AVG-E	11,90	6,40	1,00	1,45	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M26G3AVG-E	16,10	9,47	1,75	2,00	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-4M27G3AVG-E	17,50	10,46	1,90	1,90	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-5M34G3AVG-E	19,00	11,90	2,60	2,80	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5

Sound Power Level / Sound Pressure

TYPE	Sound power level dB(A)	Sound power level dB(A)	Sound pressure level (low/med/high) dB(A)	Sound pressure level (low/med/high) dB(A)
SEIYA CLASSIC				
RAS-07B2AVG-E	62	64	--/-/49	--/-/51
RAS-10B2AVG-E	62	64	--/-/49	--/-/51
RAS-13B2AVG-E	63	65	--/-/50	--/-/52
RAS-16B2AVG-E	65	66	--/-/52	--/-/53
RAS-18B2AVG-E	65	66	--/-/52	--/-/53
RAS-24B2AVG-E	69	70	--/-/56	--/-/57
SEIYA				
RAS-07E2AVG-E	60	62	--/-/47	--/-/49
RAS-10E2AVG-E	60	62	--/-/47	--/-/49
RAS-13E2AVG-E	61	62	--/-/48	--/-/49
RAS-16E2AVG-E	63	64	--/-/50	--/-/51
RAS-18E2AVG-E	63	64	--/-/50	--/-/51
RAS-24E2AVG-E	67	67	--/-/54	--/-/54
HAORI + SHORAI EDGE + CONSOLE				
RAS-07J2AVSG-E1	57	59	36/43/44	38/44/46
RAS-10J2AVSG-E1	57	59	37/43/44	39/45/46
RAS-13J2AVSG-E1	59	61	39/45/46	43/46/48
RAS-16J2AVSG-E1	61	63	40/47/48	43/49/50
RAS-18J2AVSG-E1	61	63	42/47/48	44/49/50
RAS-22J2AVSG-E1	62	64	43/48/49	46/50/51
RAS-24J2AVSG-E1	63	65	43/49/50	46/52/52
DAISEIKAI 9				
RAS-10PAVPG-E	61	62	46	47
RAS-13PAVPG-E	63	65	48	50
RAS-16PAVPG-E	64	65	49	50
DAISEIKAI 10				
RAS-10S4AVPG-E	57	58	--/-/44	--/-/45
RAS-13S4AVPG-E	58	59	--/-/45	--/-/46
RAS-18S4AVPG-E	60	62	--/-/47	--/-/49
MULTI-SPLIT				
RAS-2M14G3AVG-E	59	65	49	52
RAS-2M18G3AVG-E	61	63	48	50
RAS-3M18G3AVG-E	61	65	48	52
RAS-3M26G3AVG-E	63	65	50	52
RAS-4M27G3AVG-E	63	62	50	52
RAS-5M34G3AVG-E	65	69	52	56





RAS Accessories



Compatible with LOXONE,
alternatively can be connected
to TOSHIBA Home AC Control

LOXONE
www.loxone.com



works with the Google Assistant

WORKS WITH amazon alexa

High-wall unit

ACCESSORIES	DESCRIPTION	PRICE €
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function	105,-
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	120,-
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya Classic, Seiya, Shorai Edge, Daiseikai 9	115,-
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / Seiya, console	120,-
818F0023	Active carbon-catechin filter strips	33,-
818F0036	IAQ filter strips	52,-
818F0072	Ultra-Fresh filter strips	36,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units	50,-

Console

ACCESSORIES	DESCRIPTION	PRICE €
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function	105,-
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / Seiya, console	120,-
818F0023	Active carbon-catechin filter strips	33,-
818F0036	IAQ filter strips	52,-
RB-I301-E	Leak detection sensor for J2FVG-E model type consoles	255,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units	50,-

60x60 Slim cassette

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21PG(W)-E	Panel for 60x60 slim cassette	440,-
RB-RWS21-E	Wired remote control with weekly timer	330,-
RBC-AXU31UM-E	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	180,-
TCB-SIR41UM-E	Occupancy sensor kit for installation in 60x60 slim cassette	130,-
AP-IR-WIFI-5	WiFi module to control all functions of an indoor unit using an app on a cell phone	350,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-

Duct unit

ACCESSORIES	DESCRIPTION	PRICE €
RB-RWS21-E	Wired remote control with weekly timer	330,-
AP-IR-WIFI-5	WiFi module to control all functions of an indoor unit using an app on a cell phone	350,-
TCB-DUCEX10M	Extension cable for infrared receiver kit 10 m	120,-
TCB-DUC-AF1	Air filter with frame for model sizes 10 + 13 (discontinued model)	260,-
TCB-DUC-AF2	Air filter with frame for model size 16 (discontinued model)	295,-
TCB-DUC-AF3	Air filter with frame for model sizes 22 + 24 (discontinued model)	315,-
43H80030	Air filter for model sizes 10 + 13 (for service replacement)	135,-
43H80038	Rail for model sizes 10 + 13 (for initial equipment)	85,-
43H80036	Air filter for model size 16 (for service replacement)	150,-
43H80039	Rail for model size 16 (for initial equipment)	85,-
43H80037	Air filter for model sizes 22 + 24 (for service replacement)	160,-
43H80040	Rail for model sizes 22 + 24 (for initial equipment)	100,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-

RAS Control Options

TYPE / DESCRIPTION	PRICE €	
	RB-RXS33-E Infrared remote control including weekly timer and 8°C frost protection function <ul style="list-style-type: none">• for single + multi• Comfort functions: Weekly timer, one touch, eco mode, comfort sleep, Hi Power, power select, 8°C frost protection• Cable connection option for SHORAI EDGE and HAORI	105,-
	RB-RXS34-E Design infrared remote control, black, with magnetic holder	120,-
	RB-RWS21-E Wired remote control with weekly timer <ul style="list-style-type: none">• with large backlit display• for RAS cassette and duct units• Comfort functions: Weekly timer, quiet mode, eco mode, HI POWER	330,-
	TCB-IFCB5-PE External on/off PCB, window contact module <ul style="list-style-type: none">• Potential-free contact for on/off and window contact input.• Remote ON/OFF function	75,-
	TCB-PX100-PE Casing for outdoor installation of window contact module for high-wall units	50,-
	AP-IR-WIFI-5 WiFi module to control all functions of an indoor unit using an app on a cell phone <ul style="list-style-type: none">• Temperature and humidity alarm configurable• Compatible with all indoor units that have a standard infrared remote control• WLAN and internet access required• Free app for iOS or Android• Not a stock item - lead time on request• for cassette + duct unit only	350,-
	RB-N105S-G TOSHIBA Home AC control - wireless WiFi control / Seiya Classic, Seiya, Shorai Edge, Daiseikai 9 <ul style="list-style-type: none">• WLAN and internet access required• TOSHIBA cloud, free app for iOS or Android• Voice Control via Google Assistant/Amazon Alexa	115,-
	RB-N106S-G TOSHIBA Home AC Control - WiFi control with cable / Seiya, console <ul style="list-style-type: none">• WLAN and internet access required• TOSHIBA cloud; free app for iOS or Android• Voice Control via Google Assistant/Amazon Alexa	120,-
	TCB-SSRL011UUP-E Interface for incorporating RAS indoor units into central control systems and BMS systems. <ul style="list-style-type: none">• For the 1:1 integration of an RAS indoor unit into a VRV control system• Control of all indoor unit functions with current BMS/central remote controllers• Compatible with TCC and TU2C link system bus (Jh or U3/U4)• Compatible with current SEIYA, HAORI, SHORAI, DAISEIKAI, CONSOLE indoor units (UART)	230,-



EFFICIENT HEATING
WITH AN AIR-TO-WATER
HEAT PUMP

ESTIA – AIR-TO-WATER HEAT PUMP

- › Low investment, installation costs, and operating costs
- › Reliable heating to -25°C outdoor air temperature

ESTIA

OUTDOOR UNITS

The compressor raises the temperature of the outdoor air to a higher level and transfers the energy thereby obtained to the Hydrobox.

R410A Page 43–45
R32 Page 59–63

HYDROBOX

In the Hydrobox, the heat is transferred with minimal heat loss to the heating system via a plate heat exchanger.

R410A Page 46
R32 Page 64

ALL-IN-ONE INDOOR UNIT

The all-in-one indoor unit brings together the Hydrobox and hot water tank into a single unit with a minimal footprint.

R32 Page 65

ACCESSORIES

Whether an additional room remote control, WiFi interface, or connection to bus systems: the ESTIA range satisfies every desire for convenient external control options.

Page 66

HOT WATER TANK

This is where the hot water is stored before use. The insulated tank is made from stainless steel, which minimizes heat losses and is very durable.

R410A Page 46, 65

ESTIA

ESTIA PRODUCT OVERVIEW

ESTIA

Heating capacity (kW)	4	6
<p>ESTIA Hydrobox – Standard 1/2 zones</p> 		
<p>ESTIA Hydrobox – Hi Power 1/2 zones</p> 		
<p>ESTIA Hydrobox – Compact 1/2 zones</p> 	1-phase Page 48 OU: HWT-401HW-E IU: HWT-601XWHM3W-E HWT-601XWHT6W-E	1-phase   Page 50 OU: HWT-601HW-E IU: HWT-601XWHM3W-E HWT-601XWHT6W-E
<p>ESTIA All-in-One 1 zone</p> 	1-phase Page 49 OU: HWT-401HW-E IU: HWT-602S21SM3W-E HWT-602S21ST6W-E	1-phase   Page 51 OU: HWT-601HW-E IU: HWT-602S21SM3W-E HWT-602S21ST6W-E
<p>ESTIA All-in-One 2 zones</p> 		

8	11	14	16
	<p>3-phase Page 40</p>  <p>OU: HWS-1105H8-E IU: HWS-1405XWHT9-E</p>	<p>1-phase / 3-phase Page 41</p>  <p>OU: HWS-1405H-E HWS-1405H8-E IU: HWS-1405XWHT9-E</p>	<p>3-phase Page 42</p>  <p>OU: HWS-1605H8-E IU: HWS-1405XWHT9-E</p>
	<p>3-phase Page 40</p>  <p>OU: HWS-P1105H8R-E IU: HWS-P1105XWHT9-E</p>	<p>3-phase Page 41</p>  <p>OU: HWS-P1405H8R-E IU: HWS-P1105XWHT9-E</p>	
<p>1-phase / 3-phase Page 52</p>  <p>OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1101XWHT6W-E HWT-1101XWHT9W-E</p>	<p>1-phase / 3-phase Page 54</p>  <p>OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1101XWHT6W-E HWT-1101XWHT9W-E</p>	<p>1-phase / 3-phase Page 56</p>  <p>OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1401XWHT9W-E</p>	
<p>1-phase / 3-phase Page 53</p>  <p>OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1102S21ST9W-E</p>	<p>1-phase / 3-phase Page 55</p>  <p>OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1102S21ST9W-E</p>	<p>1-phase / 3-phase Page 57</p>  <p>OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1402S21ST9W-E</p>	
<p>1-phase / 3-phase Page 53</p>  <p>OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1102S21MT9W-E</p>	<p>1-phase / 3-phase Page 55</p>  <p>OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1102S21MT9W-E</p>	<p>1-phase / 3-phase Page 57</p>  <p>OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1402S21MT9W-E</p>	

R410A vs. R32 – Product comparison



Products	R410A Hydrobox Standard	R410A Hydrobox Hi Power	R32 Hydrobox Compact	R32 All-in-One
Split system air-to-water heat pumps	✓	✓	✓	✓
Preparation of hot or cold water	✓	✓	✓	✓
Universal application, but particularly suitable for renovation projects	✓	✓	✓	
Universal application, but particularly suitable for new buildings				✓
R410A refrigerant	✓	✓		
R32 refrigerant (low GWP)			✓	✓
Highly compact & lightweight indoor unit for wall mounting			✓	
210 liter integrated storage tank				✓
Noise reduction in night operation	✓	✓	✓	✓
Particularly quiet, even at high power levels	✓	✓		
For standard outdoor temperatures down to -20°C	✓			
For low outside temperatures down to -25°C		✓	✓	✓
For standard water temperatures up to +55°C	✓			
For high water temperatures up to +60 / +65°C		✓	✓	✓
Optional external room control unit (wired)	✓	✓	✓	✓
Optional connection to bus systems possible (KNX, Modbus)	✓	✓	✓	✓
Optional WiFi / app control possible			✓	✓
Optional 0 – 10 volt control possible			✓	✓



ESTIA 11 kW

Hydrobox / Set R410A

- Set consisting of outdoor unit and Hydrobox Standard or Hi Power
- A+++ in heating mode (Hi Power), A++ (Standard)
- Supply water temperature up to +55°C (Standard), +60°C (Hi Power)
- Heating operation down to -25°C (Hi Power), -20°C (Standard)
- Comfort control, optionally via Modbus, KNX (Standard & Hi Power)



OUTDOOR UNIT	Hydrobox Standard			Hydrobox Hi Power
	3-phase		HWS-1105H8-E	3-phase
Heating capacity @ A+7/W+35 (nom.)	kW	☀	11,20	11,20
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	10,00	10,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	2,69 - 14,73	2,21 - 18,00
Sound power level (ERP)	dB(A)	☀	-	-
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	66	67
Sound power level (max.)	dB(A)	❄	66	66
Sound pressure level (Rated, 1m)	dB(A)	☀	51	50
Sound pressure level (Rated, 1m)	dB(A)	❄	51	51
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	61	61
Sound power level (night operation)	dB(A)	❄	60	60
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,80	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,07	3,00
Energy efficiency class		☀	A++	A+++
COP			4,42	0,00
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +43	-25 / +43
Outdoor temperature operating range (min.-max.)	°C	❄	+15 / +43	+15 / +43
Outdoor unit power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16
Refrigerant			R410A	R410A
Dimensions (HxWxD)	mm		1340 x 900 x 320	1340 x 900 x 320
Price	€		4.230,-	5.390,-

INDOOR UNIT	HWS-1405XWHT9-E			HWS-P1105XWHT9-E
Supply water temperature (min.-max.)	°C	☀	20/55	20/60
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		9	9
Water flow rate (min.)	m³/h		1,05	1,05
Water pump, discharge head (max.)	m		8,8	8,8
Sound power level	dB(A)	☀	43	43
Sound power level	dB(A)	❄	43	43
Dimensions (HxWxD)	mm		925 x 525 x 355	925 x 525 x 355
Price	€		5.335,-	5.335,-

ESTIA R410A: While stocks last



ESTIA 14 kW Hydrobox / Set R410A



- Set consisting of outdoor unit and Hydrobox Standard or Hi Power
 - A++ (Standard & Hi Power)
 - Supply water temperature up to +55°C (Standard), +60°C (Hi Power)
 - Heating operation down to -25°C (Hi Power), -20°C (Standard)
 - Comfort control, optionally via Modbus, KNX (Standard & Hi Power)

	Hydrobox Standard		Hydrobox Standard		Hydrobox Hi Power
	1-phase		3-phase		3-phase
OUTDOOR UNIT	HWS-1405H-E		HWS-1405H8-E		HWS-P1405H8R-E
Heating capacity @ A+7/W+35 (nom.)	kW	14,00	14,00	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	11,00	11,00	11,00	11,00
Heating range @A+7/W+35 (min. - max.)	kW	2,92 - 16,74	2,48 - 14,81	2,21 - 21,10	
Sound power level (ERP)	dB(A)	-	-	-	-
Sound power level (max.) /Heating capacity	dB(A) /kW	68	68	68	68
Sound power level (max.)	dB(A)	68	68	68	68
Sound pressure level (Rated, 1m)	dB(A)	52	52	51	51
Sound pressure level (Rated, 1m)	dB(A)	52	52	52	52
Sound power level (night operation) /Heating capacity	dB(A) /kW	61	61	61	61
Sound power level (night operation)	dB(A)	60	60	60	60
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,50	4,44	4,44	4,44
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,89	2,89	2,82	2,82
Energy efficiency class		A++	A++	A++	A++
COP		4,03	4,23	0,00	
Outdoor temperature operating range (min.-max.)	°C	-20 / +43	-20 / +43	-25 / +43	
Outdoor temperature operating range (min.-max.)	°C	+15 / +43	+15 / +43	+15 / +43	
Outdoor unit power supply	V/Ph+N/Hz	220-240/1+N/50	380-415/3+N/50	380-415/3+N/50	
Recommended fusing	A	25	3x 16	3x 16	
Refrigerant		R410A	R410A	R410A	
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	
Price	€	4.450,-	4.640,-	5.670,-	

INDOOR UNIT		HWS-1405XWHT9-E	HWS-1405XWHT9-E	HWS-P1105XWHT9-E
Supply water temperature (min.-max.)	°C 	20/55	20/55	20/60
Supply water temperature (min.-max.)	°C 	7/25	7/25	7/25
Backup heater, capacity	kW	9	9	9
Water flow rate (min.)	m³/h	1,05	1,05	1,05
Water pump, discharge head (max.)	m	8,8	8,8	8,8
Sound power level	dB(A) 	43	43	43
Sound power level	dB(A) 	43	43	43
Dimensions (HxWxD)	mm	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
Price	€	5.335,-	5.335,-	5.335,-

ESTIA R410A: While stocks last



ESTIA 16 kW Hydrobox / Set R410A

- Set consisting of outdoor unit and Hydrobox Standard
- A++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via Modbus, KNX

While stocks last



Hydrobox Standard

OUTDOOR UNIT			3-phase	HWS-1605H8-E
Heating capacity @ A+7/W+35 (nom.)	kW	★		16,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄		13,00
Heating range @A+7/W+35 (min. – max.)	kW	★		2,52 - 17,43
Sound power level (ERP)	dB(A)	★		-
Sound power level (max.) /Heating capacity	dB(A) /kW	★		69
Sound power level (max.)	dB(A)	❄		69
Sound pressure level (Rated, 1m)	dB(A)	★		53
Sound pressure level (Rated, 1m)	dB(A)	❄		53
Sound power level (night operation) /Heating capacity	dB(A) /kW	★		61
Sound power level (night operation)	dB(A)	❄		60
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	★		4,30
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄		2,71
Energy efficiency class		★		A++
COP				4,10
Outdoor temperature operating range (min.-max.)	°C	★		-20 / +43
Outdoor temperature operating range (min.-max.)	°C	❄		+15 / +43
Outdoor unit power supply	V/Ph+N/Hz			380-415/3+N/50
Recommended fusing	A			3x 16
Refrigerant				R410A
Dimensions (HxWxD)	mm			1340 x 900 x 320
Price	€			5.570,-

INDOOR UNIT

HWS-1405XWHT9-E

Supply water temperature (min.-max.)	°C	★		20/55
Supply water temperature (min.-max.)	°C	❄		7/25
Backup heater, capacity	kW			9
Water flow rate (min.)	m³/h			1,05
Water pump, discharge head (max.)	m			8,8
Sound power level	dB(A)	★ / ❄		43 / 43
Dimensions (HxWxD)	mm			925 x 525 x 355
Price	€			5.335,-

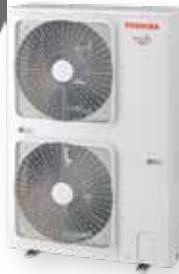
ESTIA R410A: While stocks last



ESTIA 11 kW outdoor unit R410A

- Outdoor units, for combining with Hydrobox
- Compact & efficient – very quiet in silent mode / night operation mode
- A+++ in heating mode (Hi Power), A++ (Standard)
- Supply water temperature up to +55°C (Standard), +60°C (Hi Power)
- Heating operation down to -25°C (Hi Power), -20°C (Standard)

While stocks last



OUTDOOR UNIT		HWS-1105H8-E	HWS-P1105H8R-E
Heating capacity @ A+7/W+35 (nom.)	kW	11,20	11,20
Heating range @A+7/W+35 (min. – max.)	kW	2,69 - 14,73	2,21 - 18,00
Power consumption @ A+7/W+35 (nom.)	kW	2,34	2,34
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,80	4,80
Heating capacity @ A+2/W+35 (max.)	kW	10,46	12,88
Power consumption @ A+2/W+35 (max.)	kW	2,90	4,08
Energy efficiency COP @ A+2/W+35 (max.)	W/W	3,61	3,16
Heating capacity @ A-7/W+35 (max.)	W/W	9,50	11,63
Energy efficiency class	*	A++	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	10,00	10,00
Power consumption @ A+35/W+7 (nom.)	kW	3,26	3,33
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	3,07	3,00
Energy efficiency class	*	A++	A++
COP		4,42	0,00
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Running current (max.)	A	3x 14,60	3x 14,60
Starting current	A	Softstart	Softstart
Recommended fusing	A	3x 16	3x 16
Outdoor temperature operating range (min.-max.)	°C	-20 / +43	-25 / +43
Outdoor temperature operating range (min.-max.)	°C	+15 / +43	+15 / +43
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	30	30
Height difference (max.)	m	30	30
Sound power level (ERP)	dB(A)	*	-
Sound power level (max.) /Heating capacity	dB(A) /kW	*	66
Sound power level (max.)	dB(A)	*	66
Sound pressure level (Rated, 1m)	dB(A)	*	51
Sound pressure level (Rated, 1m)	dB(A)	*	51
Sound power level (night operation) /Heating capacity	dB(A) /kW	*	61
Sound power level (night operation)	dB(A)	*	60
Refrigerant		R410A	R410A
Refrigerant charge	kg	2,7	2,7
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	93	94
Price	€	4.230,-	5.390,-

ESTIA R410A: While stocks last



ESTIA 14 kW outdoor unit R410A

- Outdoor units, for combining with Hydrobox
- Compact & efficient – very quiet in silent mode / night operation mode
- A++ in heating mode
- Supply water temperature up to +55°C (Standard), +60°C (Hi Power)
- Heating operation down to -25°C (Hi Power), -20°C (Standard)



OUTDOOR UNIT		HWS-1405H-E	HWS-1405H8-E	HWS-P1405H8R-E
Heating capacity @ A+7/W+35 (nom.)	kW	14,00	14,00	14,00
Heating range @A+7/W+35 (min. – max.)	kW	2,92 - 16,74	2,48 - 14,81	2,21 - 21,10
Power consumption @ A+7/W+35 (nom.)	kW	3,11	3,16	3,15
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,50	4,44	4,44
Heating capacity @ A+2/W+35 (max.)	kW	10,65	11,01	14,60
Power consumption @ A+2/W+35 (max.)	kW	3,20	3,21	4,85
Energy efficiency COP @ A+2/W+35 (max.)	W/W	3,33	3,44	3,01
Heating capacity @ A-7/W+35 (max.)	W/W	10,79	10,64	13,44
Energy efficiency class		A++	A++	A++
Cooling capacity @ A+35/W+7 (nom.)	kW	11,00	11,00	11,00
Power consumption @ A+35/W+7 (nom.)	kW	3,81	3,81	3,90
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,89	2,89	2,82
Energy efficiency class		A++	A++	A++
COP		4,03	4,23	0,00
Power supply	V/Ph+N/Hz	220-240/1+N/50	380-415/3+N/50	380-415/3+N/50
Running current (max.)	A	22,80	3x 14,60	3x 14,60
Starting current	A	Softstart	Softstart	Softstart
Recommended fusing	A	25	3x 16	3x 16
Outdoor temperature operating range (min.-max.)	°C	-20 / +43	-20 / +43	-25 / +43
Outdoor temperature operating range (min.-max.)	°C	+15 / +43	+15 / +43	+15 / +43
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	30	30	30
Height difference (max.)	m	30	30	30
Sound power level (ERP)	dB(A)	-	-	-
Sound power level (max.) /Heating capacity	dB(A) /kW	68	68	68
Sound power level (max.)	dB(A)	68	68	68
Sound pressure level (Rated, 1m)	dB(A)	52	52	51
Sound pressure level (Rated, 1m)	dB(A)	52	52	52
Sound power level (night operation) /Heating capacity	dB(A) /kW	61	61	61
Sound power level (night operation)	dB(A)	60	60	60
Refrigerant		R410A	R410A	R410A
Refrigerant charge	kg	2,7	2,7	2,7
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	92	93	93
Price	€	4.450,-	4.640,-	5.670,-

ESTIA R410A: While stocks last



ESTIA 16 kW outdoor unit R410A

- Outdoor unit, for combining with Hydrobox Standard indoor unit
- Compact & efficient – very quiet in silent mode / night operation mode
- A++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C



OUTDOOR UNIT			Standard - 3-phase
			HWS-1605H8-E
Heating capacity @ A+7/W+35 (nom.)	kW	★	16,00
Heating range @A+7/W+35 (min. – max.)	kW	★	2,52 - 17,43
Power consumption @ A+7/W+35 (nom.)	kW	★	3,72
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	★	4,30
Heating capacity @ A+2/W+35 (max.)	kW	★	11,61
Power consumption @ A+2/W+35 (max.)	kW	★	3,46
Energy efficiency COP @ A+2/W+35 (max.)	W/W	★	3,36
Heating capacity @ A-7/W+35 (max.)	W/W	★	11,25
Energy efficiency class		★	A++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	13,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,71
Energy efficiency class		❄	A++
COP			4,10
Power supply	V/Ph+N/Hz		380-415/3+N/50
Running current (max.)	A		3x 14,60
Starting current	A		Softstart
Recommended fusing	A		3x 16
Outdoor temperature operating range (min.-max.)	°C	★	-20 / +43
Outdoor temperature operating range (min.-max.)	°C	❄	+15 / +43
Liquid pipe diameter	mm (inch)		9,5 (3/8)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Sound power level (ERP)	dB(A)	★	-
Sound power level (max.) /Heating capacity	dB(A) /kW	★	69
Sound power level (max.)	dB(A)	❄	69
Sound pressure level (Rated, 1m)	dB(A)	★	53
Sound pressure level (Rated, 1m)	dB(A)	❄	53
Sound power level (night operation) /Heating capacity	dB(A) /kW	★	61
Sound power level (night operation)	dB(A)	❄	60
Refrigerant			R410A
Refrigerant charge	kg		2,7
Dimensions (HxWxD)	mm		1340 x 900 x 320
Weight	kg		93
Price	€		5.570,-

ESTIA R410A: While stocks last



ESTIA Hydrobox R410A

- The renovation classic – Hydrobox Standard or Hi Power
- A++ in heating mode
- Supply water temperature up to +55°C (Standard), +60°C (Hi Power)
- Heating operation down to -25°C (Hi Power), -20°C (Standard)
- Comfort control, optionally via Modbus, KNX (Standard & Hi Power)



INDOOR UNIT	Compact		HI POWER
	HWS-1405XWHT9-E	HWS-P1105XWHT9-E	
Supply water temperature (min.-max.)	°C	20/55	20/60
Supply water temperature (min.-max.)	°C	7/25	7/25
Compatible outdoor units		1105/1405/1605	P1105/P1405
Backup heater, capacity	kW	9	9
Backup heater, connection	Ph+N	380-415/3+N/50	380-415/3+N/50
Backup heater, recommend fusing	A	3x16	3x 16
Water flow rate (min.)	m³/h	1,05	1,05
Water pump, power consumption (max.)	kW	0,190	0,190
Water pump, discharge head (max.)	m	8,8	8,8
Water pump, energy efficiency class		A	A
Expansion vessel	l	12	12
Water connection (inlet/outlet)	Inch	1 ¼	1 ¼
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Sound power level	dB(A)	43	43
Sound power level	dB(A)	43	43
Sound pressure level (low/med/high)	dB(A)	32	32
Sound pressure level (low/med/high)	dB(A)	32	32
Refrigerant		R410A	R410A
Dimensions (HxWxD)	mm	925 x 525 x 355	925 x 525 x 355
Weight	kg	52	52
Price	€	5.335,-	5.335,-

ESTIA R410A: While stocks last



ESTIA hot water tank R410A

- Manufactured from stainless steel for durability



INDOOR UNIT	HWS-1501CSHM3-E	HWS-2101CSHM3-E	HWS-3001CSHM3-E
Tank volume	l	150	210
Water temperature (max.)	°C	75	75
Backup heater, capacity	kW	2,75	2,75
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Dimensions (HxØ)	mm	1090 x 550	1474 x 550
Weight (dry/wet)	kg	31 / 181	41 / 251
Price	€	1.955,-	2.325,-
			2.770,-

TOSHIBA



ESTIA

ESTIA 4 kW Hydrobox / Set R32

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



Hydrobox Compact

OUTDOOR UNIT			1-phase	HWT-401HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀		4,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄		4,00
Heating range @A+7/W+35 (min. – max.)	kW	☀		0,79 - 7,25
Sound power level (ERP)	dB(A)	☀		66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀		71 /7,25
Sound power level (max.)	dB(A)	❄		65
Sound pressure level (Rated, 1m)	dB(A)	☀		45
Sound pressure level (Rated, 1m)	dB(A)	❄		46
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀		54 /2,85
Sound power level (night operation)	dB(A)	❄		55
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀		5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄		3,45
Energy efficiency class		☀		A+++
COP				4,30
Outdoor temperature operating range (min.-max.)	°C	☀		-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄		+10 / +43
Outdoor unit power supply	V/Ph+N/Hz			220-240/1+N/50
Recommended fusing	A			16
Refrigerant				R32
Dimensions (HxWxD)	mm			630 x 800 x 300
Price	€			2.090,-

INDOOR UNIT			HWT-601XWHM3W-E	HWT-601XWHT6W-E
Supply water temperature (min.-max.)	°C	☀	20/55	20/55
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		3	6
Water flow rate (min.)	m³/h		0,66	0,66
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀	40	40
Sound power level	dB(A)	❄	40	40
Dimensions (HxWxD)	mm		720 x 450 x 235	720 x 450 x 235
Price	€		3.915,-	4.080,-



ESTIA 4 kW AIO / Set R32

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



ESTIA

OUTDOOR UNIT	All-in-One		
	1-phase		
	HWT-401HW-E		
Heating capacity @ A+7/W+35 (nom.)	kW	☀	4,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	4,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,79 - 7,25
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 / 7,25
Sound power level (max.)	dB(A)	❄	65
Sound pressure level (Rated, 1m)	dB(A)	☀	45
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	54 / 2,85
Sound power level (night operation)	dB(A)	❄	55
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,45
Energy efficiency class		☀	A+++
COP			4,30
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
Price	€		2.090,-

INDOOR UNIT	1 zone		1 zone
	HWT-602S21SM3W-E		HWT-602S21ST6W-E
	I	210	210
Tank volume	l	210	210
Supply water temperature (min.-max.)	°C	☀	20/55
Supply water temperature (min.-max.)	°C	❄	7/25
Backup heater, capacity	kW	3	6
Water flow rate (min.)	m³/h	0,66	0,66
Water pump, discharge head (max.)	m	7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670
Price	€	7.880,-	7.925,-



ESTIA 6 kW Hydrobox / Set R32

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



Hydrobox Compact

OUTDOOR UNIT			1-phase	HWT-601HW-E
	kW	☀️	6,00	
Heating capacity @ A+7/W+35 (nom.)	kW	☀️	6,00	
Cooling capacity @ A+35/W+7 (nom.)	kW	❄️	5,00	
Heating range @A+7/W+35 (min. – max.)	kW	☀️	0,80 - 7,25	
Sound power level (ERP)	dB(A)	☀️	66	
Sound power level (max.) /Heating capacity	dB(A) /kW	☀️	71 /7,25	
Sound power level (max.)	dB(A)	❄️	65	
Sound pressure level (Rated, 1m)	dB(A)	☀️	46	
Sound pressure level (Rated, 1m)	dB(A)	❄️	46	
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀️	58 /4,29	
Sound power level (night operation)	dB(A)	❄️	57	
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀️	4,80	
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄️	3,30	
Energy efficiency class		☀️	A+++	
COP			4,30	
Outdoor temperature operating range (min.-max.)	°C	☀️	-25 / +25	
Outdoor temperature operating range (min.-max.)	°C	❄️	+10 / +43	
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	
Recommended fusing	A		16	
Refrigerant			R32	
Dimensions (HxWxD)	mm		630 x 800 x 300	
Price	€		2.325,-	

INDOOR UNIT			HWT-601XWHM3W-E	HWT-601XWHT6W-E
	°C	☀️	20/55	20/55
Supply water temperature (min.-max.)	°C	❄️	7/25	7/25
Backup heater, capacity	kW		3	6
Water flow rate (min.)	m³/h		0,66	0,66
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀️ / ❄️	40 / 40	40 / 40
Dimensions (HxWxD)	mm		725 x 450 x 235	725 x 450 x 235
Price	€		3.915,-	4.080,-



ESTIA 6 kW AIO / Set R32

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



OUTDOOR UNIT			All-in-One
			1-phase
			HWT-601HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	6,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	5,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,80 - 7,25
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound pressure level (Rated, 1m)	dB(A)	☀	46
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /4,29
Sound power level (night operation)	dB(A)	❄	57
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,30
Energy efficiency class		☀	A+++
COP			4,30
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
Price	€		2.325,-

INDOOR UNIT			1 zone	1 zone
			HWT-602S21SM3W-E	HWT-602S21ST6W-E
Tank volume	l		210	210
Supply water temperature (min.-max.)	°C	☀	20/55	20/55
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		3	6
Water flow rate (min.)	m³/h		0,66	0,66
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀	40	40
Sound power level	dB(A)	❄	40	40
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670
Price	€		7.880,-	7.925,-



ESTIA 8 kW Hydrobox / Set R32

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



OUTDOOR UNIT	Hydrobox Compact			Hydrobox Compact
	1-phase			3-phase
	HWT-801HW-E			HWT-801H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	6,00	6,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 11,90	2,65 - 12,27
Sound power level (ERP)	dB(A)	☀	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /11,90	71 /12,27
Sound power level (max.)	dB(A)	❄	66	66
Sound pressure level (Rated, 1m)	dB(A)	☀	51	50
Sound pressure level (Rated, 1m)	dB(A)	❄	50	53
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /5,93	61 /5,93
Sound power level (night operation)	dB(A)	❄	59	61
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,19	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,20	2,83
Energy efficiency class		☀	A+++	A+++
COP			4,40	-
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Price	€		4.090,-	5.550,-

INDOOR UNIT	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E
Supply water temperature (min.-max.)	°C	☀	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		6	9
Water flow rate (min.)	m³/h		0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀ / ❄	38 / 38	38 / 38
Dimensions (HxWxD)	mm		720 x 450 x 235	725 x 450 x 235
Price	€		4.620,-	4.850,-



ESTIA 8 kW AIO / Set R32

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



OUTDOOR UNIT	All-in-One		
	1-phase		
	HWT-801HW-E	All-in-One	
Heating capacity @ A+7/W+35 (nom.)	kW	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	6,00	6,00
Heating range @A+7/W+35 (min. – max.)	kW	1,01 - 11,90	2,65 - 12,27
Sound power level (ERP)	dB(A)	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	71 /11,90	71 /12,27
Sound power level (max.)	dB(A)	66	66
Sound pressure level (Rated, 1m)	dB(A)	51	50
Sound pressure level (Rated, 1m)	dB(A)	50	53
Sound power level (night operation) /Heating capacity	dB(A) /kW	58 /5,93	61 /5,93
Sound power level (night operation)	dB(A)	59	61
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	5,19	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	3,20	2,83
Energy efficiency class		A+++	A+++
COP		4,40	-
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-240/1+N/50	380-415/3+N/50
Recommended fusing	A	20	3x 16
Refrigerant		R32	R32
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Price	€	4.090,-	5.550,-

INDOOR UNIT	1 zone		2 zones		1 zone		2 zones	
	HWT-1102S21ST9W-E		HWT-1102S21MT9W-E		HWT-1102S21ST9W-E		HWT-1102S21MT9W-E	
Tank volume	l	210	210	210	210	210	210	210
Supply water temperature (min.-max.)	°C	20/65	20/65	20/65	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25	7/25	7/25	7/25	7/25
Backup heater, capacity	kW	9	9	9	9	9	9	9
Water flow rate (min.)	m³/h	0,78	0,78	0,78	0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m	7,2	7,2	7,2	7,2	7,2	7,2	7,2
Sound power level	dB(A) /	40 / 40	45 / 45	40 / 40	45 / 45	40 / 40	45 / 45	40 / 40
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Price	€	8.040,-	9.030,-	8.040,-	9.030,-	8.040,-	9.030,-	8.040,-



ESTIA 11 kW Hydrobox / Set R32

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



OUTDOOR UNIT	Hydrobox Compact		
	1-phase		3-phase
	HWT-1101HW-E	HWT-1101H8W-E	
Heating capacity @ A+7/W+35 (nom.)	kW	11,00	11,00
Cooling capacity @ A+35/W+7 (nom.)	kW	8,00	8,00
Heating range @A+7/W+35 (min. – max.)	kW	1,01 - 13,24	2,58 - 15,50
Sound power level (ERP)	dB(A)	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	72 /13,24	72 /15,50
Sound power level (max.)	dB(A)	67	67
Sound pressure level (Rated, 1m)	dB(A)	51	58
Sound pressure level (Rated, 1m)	dB(A)	51	54
Sound power level (night operation) /Heating capacity	dB(A) /kW	62 /8,28	61 /8,28
Sound power level (night operation)	dB(A)	60	62
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60	4,74
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,80	2,62
Energy efficiency class		A+++	A+++
COP		4,30	-
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-240/1+N/50	380-415/3+N/50
Recommended fusing	A	20	3x 16
Refrigerant		R32	R32
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Price	€	4.580,-	6.300,-

INDOOR UNIT	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E
Supply water temperature (min.-max.)	°C	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25
Backup heater, capacity	kW	6	9	6
Water flow rate (min.)	m³/h	0,78	0,78	0,78
Water pump, discharge head (max.)	m	7,2	7,2	7,2
Sound power level	dB(A) /	38 / 38	38 / 38	38 / 38
Dimensions (HxWxD)	mm	725 x 450 x 235	725 x 450 x 235	725 x 450 x 235
Price	€	4.620,-	4.850,-	4.620,-



ESTIA 11 kW AIO / Set R32

- › Set consisting of outdoor unit and all-in-one indoor unit
- › A+++ in heating mode
- › Supply water temperature up to +65°C
- › Heating operation down to -25°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



ESTIA

OUTDOOR UNIT	All-in-One		All-in-One	
	1-phase		3-phase	
	HWT-1101HW-E	HWT-1101H8W-E		
Heating capacity @ A+7/W+35 (nom.)	kW	11,00		11,00
Cooling capacity @ A+35/W+7 (nom.)	kW	8,00		8,00
Heating range @A+7/W+35 (min. – max.)	kW	1,01 - 13,24		2,58 - 15,50
Sound power level (ERP)	dB(A)	65		65
Sound power level (max.) /Heating capacity	dB(A) /kW	72 /13,24		72 /15,50
Sound power level (max.)	dB(A)	67		67
Sound pressure level (Rated, 1m)	dB(A)	51		58
Sound pressure level (Rated, 1m)	dB(A)	51		54
Sound power level (night operation) /Heating capacity	dB(A) /kW	62 /8,28		61 /8,28
Sound power level (night operation)	dB(A)	60		62
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60		4,74
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,80		2,62
Energy efficiency class		A+++		A+++
COP		4,30		-
Outdoor temperature operating range (min.-max.)	°C	-25 / +25		-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43		+10 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-240/1+N/50		380-415/3+N/50
Recommended fusing	A	20		3x 16
Refrigerant		R32		R32
Dimensions (HxWxD)	mm	1050 x 1010 x 370		1050 x 1010 x 370
Price	€	4.580,-		6.300,-

INDOOR UNIT	1 zone		2 zones		1 zone		2 zones	
	HWT-1102S21ST9W-E		HWT-1102S21MT9W-E		HWT-1102S21ST9W-E		HWT-1102S21MT9W-E	
Tank volume	l	210	210	210	210	210	210	210
Supply water temperature (min.-max.)	°C	20/65	20/65	20/65	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25	7/25	7/25	7/25	7/25
Backup heater, capacity	kW	9	9	9	9	9	9	9
Water flow rate (min.)	m³/h	0,78	0,78	0,78	0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m	7,2	7,2	7,2	7,2	7,2	7,2	7,2
Sound power level	dB(A) /	40 / 40	45 / 45	40 / 40	45 / 45	40 / 40	45 / 45	40 / 40
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Price	€	8.040,-	9.030,-	8.040,-	9.030,-			



ESTIA 14 kW

Hydrobox / Set R32

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



	Hydrobox Compact		Hydrobox Compact
	1-phase		3-phase
OUTDOOR UNIT	HWT-1401HW-E		HWT-1401H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	10,00	10,00
Heating range @A+7/W+35 (min. – max.)	kW	2,44 - 18,39	2,55 - 18,39
Sound power level (ERP)	dB(A)	69	69
Sound power level (max.) /Heating capacity	dB(A) /kW	72 /18,39	72 /18,39
Sound power level (max.)	dB(A)	70	70
Sound pressure level (Rated, 1m)	dB(A)	59	59
Sound pressure level (Rated, 1m)	dB(A)	59	59
Sound power level (night operation) /Heating capacity	dB(A) /kW	62 /11,12	62 /11,12
Sound power level (night operation)	dB(A)	63	63
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60	4,60
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,45	2,45
Energy efficiency class		A+++	A+++
COP		-	-
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-240/1+N/50	380-415/3+N/50
Recommended fusing	A	20	3x 16
Refrigerant		R32	R32
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Price	€	5.800,-	7.380,-

INDOOR UNIT	HWT-1401XWHT9W-E		HWT-1401XWHT9W-E
Supply water temperature (min.-max.)	°C	20/65	20/65
Supply water temperature (min.-max.)	°C	7/25	7/25
Backup heater, capacity	kW	9	9
Water flow rate (min.)	m³/h	0,78	0,78
Water pump, discharge head (max.)	m	7,2	7,2
Sound power level	dB(A)	40 / 40	40 / 40
Dimensions (HxWxD)	mm	725 x 450 x 235	725 x 450 x 235
Price	€	5.450,-	5.450,-



ESTIA 14 kW

AIO / Set R32

- › Set consisting of outdoor unit and all-in-one indoor unit
- › A+++ in heating mode
- › Supply water temperature up to +65°C
- › Heating operation down to -25°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



ESTIA

	All-in-One		All-in-One	
	1-phase	HWT-1401HW-E	3-phase	HWT-1401H8W-E
OUTDOOR UNIT				
Heating capacity @ A+7/W+35 (nom.)	kW	14,00		14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	10,00		10,00
Heating range @A+7/W+35 (min. – max.)	kW	2,44 - 18,39		2,55 - 18,39
Sound power level (ERP)	dB(A)	69		69
Sound power level (max.) /Heating capacity	dB(A) /kW	72 /18,39		72 /18,39
Sound power level (max.)	dB(A)	70		70
Sound pressure level (Rated, 1m)	dB(A)	59		59
Sound pressure level (Rated, 1m)	dB(A)	59		59
Sound power level (night operation) /Heating capacity	dB(A) /kW	62 /11,12		62 /11,12
Sound power level (night operation)	dB(A)	63		63
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60		4,60
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,45		2,45
Energy efficiency class		A+++		A+++
COP		-		-
Outdoor temperature operating range (min.-max.)	°C	-25 / +25		-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43		+10 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-240/1+N/50		380-415/3+N/50
Recommended fusing	A	20		3x 16
Refrigerant		R32		R32
Dimensions (HxWxD)	mm	1050 x 1010 x 370		1050 x 1010 x 370
Price	€	5.800,-		7.380,-

	1 zone		2 zones		1 zone		2 zones	
	INDOOR UNIT		HWT-1402S21ST9W-E	HWT-1402S21MT9W-E	HWT-1402S21ST9W-E	HWT-1402S21MT9W-E	HWT-1402S21ST9W-E	HWT-1402S21MT9W-E
Tank volume	l	210		210		210		210
Supply water temperature (min.-max.)	°C	20/65		20/65		20/65		20/65
Supply water temperature (min.-max.)	°C	7/25		7/25		7/25		7/25
Backup heater, capacity	kW	9		9		9		9
Water flow rate (min.)	m³/h	0,78		0,78		0,78		0,78
Water pump, discharge head (max.)	m	7,2		7,2		7,2		7,2
Sound power level	dB(A)	42 / 42		46 / 46		42 / 42		46 / 46
Dimensions (HxWxD)	mm	1700 x 595 x 670		1700 x 595 x 670		1700 x 595 x 670		1700 x 595 x 670
Price	€	8.500,-		9.440,-		8.500,-		9.440,-





ESTIA Warranty

TOSHIBA represents outstanding quality, as demonstrated by the excellent levels of efficiency. For the ESTIA, TOSHIBA offers a 5-year warranty for the unit's key component – the compressor.

5-YEAR COMPRESSOR WARRANTY

You automatically receive a 5-year warranty on the ESTIA compressor.

EXTENDED WARRANTY

An extended warranty of 4 or 5 years is also possible for all other components.

5
years
compressors



ESTIA 4 kW outdoor unit R32

- Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- Compact & efficient – very quiet in silent mode / night operation mode
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C



OUTDOOR UNIT			Compact - 1-phase
			HWT-401HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	*	4,00
Heating range @A+7/W+35 (min. – max.)	kW	*	0,79 - 7,25
Power consumption @ A+7/W+35 (nom.)	kW	*	0,77
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	*	5,20
Heating capacity @ A+2/W+35 (max.)	kW	*	6,42
Power consumption @ A+2/W+35 (max.)	kW	*	1,52
Energy efficiency COP @ A+2/W+35 (max.)	W/W	*	4,22
Heating capacity @ A-7/W+35 (max.)	W/W	*	4,80
Energy efficiency class		*	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	*	4,00
Power consumption @ A+35/W+7 (nom.)	kW	*	1,16
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	*	3,45
Energy efficiency class		*	-
COP			4,30
Power supply	V/Ph+N/Hz		220-240/1+N/50
Running current (max.)	A		14,60
Starting current	A		Softstart
Recommended fusing	A		16
Outdoor temperature operating range (min.-max.)	°C	*	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	*	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)
Suction gas pipe diameter	mm (inch)		12,7 (½)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Sound power level (ERP)	dB(A)	*	66
Sound power level (max.) /Heating capacity	dB(A) /kW	*	71 / 7,25
Sound power level (max.)	dB(A)	*	65
Sound pressure level (Rated, 1m)	dB(A)	*	45
Sound pressure level (Rated, 1m)	dB(A)	*	46
Sound power level (night operation) /Heating capacity	dB(A) /kW	*	54 / 2,85
Sound power level (night operation)	dB(A)	*	55
Refrigerant			R32
Refrigerant charge	kg		0,9
Dimensions (HxWxD)	mm		630 x 800 x 300
Weight	kg		42
Price	€		2.090,-



ESTIA 6 kW outdoor unit R32

- Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- Compact & efficient – very quiet in silent mode / night operation mode
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C



Compact - 1-phase		
HWT-601HW-E		
OUTDOOR UNIT		
Heating capacity @ A+7/W+35 (nom.)	kW	6,00
Heating range @A+7/W+35 (min. – max.)	kW	0,80 - 7,25
Power consumption @ A+7/W+35 (nom.)	kW	1,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,80
Heating capacity @ A+2/W+35 (max.)	kW	6,42
Power consumption @ A+2/W+35 (max.)	kW	1,52
Energy efficiency COP @ A+2/W+35 (max.)	W/W	4,22
Heating capacity @ A-7/W+35 (max.)	W/W	6,06
Energy efficiency class		A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	5,00
Power consumption @ A+35/W+7 (nom.)	kW	1,52
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	3,30
Energy efficiency class		-
COP		4,30
Power supply	V/Ph+N/Hz	220-240/1+N/50
Running current (max.)	A	14,60
Starting current	A	Softstart
Recommended fusing	A	16
Outdoor temperature operating range (min.-max.)	°C	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43
Liquid pipe diameter	mm (inch)	6,3 (¼)
Suction gas pipe diameter	mm (inch)	12,7 (½)
Pipe length (min.)	m	5
Pipe length (max.)	m	30
Height difference (max.)	m	30
Sound power level (ERP)	dB(A)	66
Sound power level (max.) /Heating capacity	dB(A) /kW	71 /7,25
Sound power level (max.)	dB(A)	65
Sound pressure level (Rated, 1m)	dB(A)	46
Sound pressure level (Rated, 1m)	dB(A)	46
Sound power level (night operation) /Heating capacity	dB(A) /kW	58 /4,29
Sound power level (night operation)	dB(A)	57
Refrigerant		R32
Refrigerant charge	kg	0,9
Dimensions (HxWxD)	mm	630 x 800 x 300
Weight	kg	42
Price	€	2.325,-



ESTIA 8 kW outdoor unit R32

- Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C



OUTDOOR UNIT	Compact - 1-phase			Compact - 3-phase
		HWT-801HW-E	HWT-801H8W-E	
Heating capacity @ A+7/W+35 (nom.)	kW	8,00	8,00	
Heating range @A+7/W+35 (min. – max.)	kW	1,01 - 11,90	2,65 - 12,27	
Power consumption @ A+7/W+35 (nom.)	kW	1,54	1,55	
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	5,19	5,06	
Heating capacity @ A+2/W+35 (max.)	kW	10,30	8,74	
Power consumption @ A+2/W+35 (max.)	kW	2,77	2,49	
Energy efficiency COP @ A+2/W+35 (max.)	W/W	3,72	3,51	
Heating capacity @ A-7/W+35 (max.)	W/W	8,11	7,39	
Energy efficiency class		A+++	A+++	
Cooling capacity @ A+35/W+7 (nom.)	kW	6,00	6,00	
Power consumption @ A+35/W+7 (nom.)	kW	1,88	2,63	
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	3,20	2,83	
Energy efficiency class		-	-	
COP		4,40	-	
Power supply	V/Ph+N/Hz	220-240/1+N/50	380-415/3+N/50	
Running current (max.)	A	19,98	3x 13	
Starting current	A	Softstart	Softstart	
Recommended fusing	A	20	3x 16	
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25	
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43	
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)	
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	
Pipe length (min.)	m	5	5	
Pipe length (max.)	m	30	25	
Height difference (max.)	m	30	25	
Sound power level (ERP)	dB(A)	65	65	
Sound power level (max.) /Heating capacity	dB(A) /kW	71 /11,90	71 /12,27	
Sound power level (max.)	dB(A)	66	66	
Sound pressure level (Rated, 1m)	dB(A)	51	50	
Sound pressure level (Rated, 1m)	dB(A)	50	53	
Sound power level (night operation) /Heating capacity	dB(A) /kW	58 /5,93	61 /5,93	
Sound power level (night operation)	dB(A)	59	61	
Refrigerant		R32	R32	
Refrigerant charge	kg	1,25	1,30	
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	
Weight	kg	75	92	
Price	€	4.090,-	5.550,-	



ESTIA 11 kW outdoor unit R32

- Outdoor units, for combining with Hydrobox or all-in-one indoor units
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C



OUTDOOR UNIT	Compact - 1-phase		Compact - 3-phase
	HWT-1101HW-E	HWT-1101H8W-E	
Heating capacity @ A+7/W+35 (nom.)	kW	11,00	11,00
Heating range @A+7/W+35 (min. – max.)	kW	1,01 - 13,24	2,58 - 15,50
Power consumption @ A+7/W+35 (nom.)	kW	2,39	2,30
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60	4,74
Heating capacity @ A+2/W+35 (max.)	kW	11,46	13,58
Power consumption @ A+2/W+35 (max.)	kW	3,24	3,57
Energy efficiency COP @ A+2/W+35 (max.)	W/W	3,54	3,80
Heating capacity @ A-7/W+35 (max.)	W/W	9,10	10,49
Energy efficiency class		A+++	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	8,00	8,00
Power consumption @ A+35/W+7 (nom.)	kW	2,86	2,88
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,80	2,62
Energy efficiency class		-	-
COP		4,30	-
Power supply	V/Ph+N/Hz	220-240/1+N/50	380-415/3+N/50
Running current (max.)	A	19,98	3x 13
Starting current	A	Softstart	Softstart
Recommended fusing	A	20	3x 16
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	30	25
Height difference (max.)	m	30	25
Sound power level (ERP)	dB(A)	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	72 /13,24	72 /15,50
Sound power level (max.)	dB(A)	67	67
Sound pressure level (Rated, 1m)	dB(A)	51	58
Sound pressure level (Rated, 1m)	dB(A)	51	54
Sound power level (night operation) /Heating capacity	dB(A) /kW	62 /8,28	61 /8,28
Sound power level (night operation)	dB(A)	60	62
Refrigerant		R32	R32
Refrigerant charge	kg	1,25	1,30
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	75	92
Price	€	4.580,-	6.300,-



ESTIA 14 kW outdoor unit R32

- Outdoor units, for combining with Hydrobox or all-in-one indoor units
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C



OUTDOOR UNIT	Compact - 1-phase			Compact 3-phase		
		HWT-1401HW-E		HWT-1401H8W-E		
Heating capacity @ A+7/W+35 (nom.)	kW	14,00		14,00		
Heating range @A+7/W+35 (min. – max.)	kW	2,44 - 18,39		2,55 - 18,39		
Power consumption @ A+7/W+35 (nom.)	kW	3,04		3,04		
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60		4,60		
Heating capacity @ A+2/W+35 (max.)	kW	16,13		16,13		
Power consumption @ A+2/W+35 (max.)	kW	4,62		4,62		
Energy efficiency COP @ A+2/W+35 (max.)	W/W	3,49		3,49		
Heating capacity @ A-7/W+35 (max.)	W/W	13,05		10,19		
Energy efficiency class		A+++		A+++		
Cooling capacity @ A+35/W+7 (nom.)	kW	10,00		10,00		
Power consumption @ A+35/W+7 (nom.)	kW	4,08		4,08		
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,45		2,45		
Energy efficiency class		-		-		
COP		-		-		
Power supply	V/Ph+N/Hz	220-240/1+N/50		380-415/3+N/50		
Running current (max.)	A	19,98		3x 13		
Starting current	A	Softstart		Softstart		
Recommended fusing	A	20		3x 16		
Outdoor temperature operating range (min.-max.)	°C	-25 / +25		-25 / +25		
Outdoor temperature operating range (min.-max.)	°C	+10 / +43		+10 / +43		
Liquid pipe diameter	mm (inch)	6,3 (1/4)		6,3 (1/4)		
Suction gas pipe diameter	mm (inch)	15,9 (5/8)		15,9 (5/8)		
Pipe length (min.)	m	5		5		
Pipe length (max.)	m	25		25		
Height difference (max.)	m	25		25		
Sound power level (ERP)	dB(A)	69		69		
Sound power level (max.) /Heating capacity	dB(A) /kW	72 /18,39		72 /18,39		
Sound power level (max.)	dB(A)	70		70		
Sound pressure level (Rated, 1m)	dB(A)	59		59		
Sound pressure level (Rated, 1m)	dB(A)	59		59		
Sound power level (night operation) /Heating capacity	dB(A) /kW	62 /11,12		62 /11,12		
Sound power level (night operation)	dB(A)	63		63		
Refrigerant		R32		R32		
Refrigerant charge	kg	1,40		1,40		
Dimensions (HxWxD)	mm	1050 x 1010 x 370		1050 x 1010 x 370		
Weight	kg	88		92		
Price	€	5.800,-		7.380,-		



ESTIA Hydrobox R32

- The renovation classic – Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



INDOOR UNIT	Compact				
	HWT-601XWHM3W-E	HWT-601XWHT6W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1401XWHT9W-E
Supply water temperature (min.-max.)	°C	20/55	20/55	20/65	20/65
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25	7/25
Compatible outdoor units		401/601	401/601	801/1101	801/1101
Backup heater, capacity	kW	3	6	6	9
Backup heater, connection	Ph+N	220-240/1+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Backup heater, recommend fusing	A	16	2x 16	2x 16	3x 16
Water flow rate (min.)	m³/h	0,66	0,66	0,78	0,78
Water pump, power consumption (max.)	kW	0,060	0,060	0,060	0,060
Water pump, discharge head (max.)	m	7,2	7,2	7,2	7,2
Water pump, energy efficiency class		EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20
Expansion vessel	l	8	8	8	8
Water connection (inlet/outlet)	Inch	1	1	1	1
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)
Sound power level	dB(A)	40	40	38	38
Sound power level	dB(A)	40	40	38	38
Sound pressure level (low/med/high)	dB(A)	28	28	28	28
Sound pressure level (low/med/high)	dB(A)	28	28	28	28
Refrigerant		R32	R32	R32	R32
Dimensions (HxWxD)	mm	720 x 450 x 235	720 x 450 x 235	720 x 450 x 235	725 x 450 x 235
Weight	kg	27	27	27	27
Price	€	3.915,-	4.080,-	4.620,-	4.850,-
					5.450,-



ESTIA All-in-One R32

- Compact system with tank, perfect for new-builds
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V

Series 2 features & enhancements:

- Light & durable stainless steel tank
- Recessed handles for ease of carrying
- Optional circulation kit
- All connections are threaded
- Optimized connecting terminal



INDOOR UNIT	1 zone				2 zones	
	HWT-602S21SM3W-E	HWT-602S21ST6W-E	HWT-1102S21ST9W-E	HWT-1402S21ST9W-E	HWT-1102S21MT9W-E	HWT-1402S21MT9W-E
Tank volume	l	210	210	210	210	210
Supply water temperature (min.-max.)	°C	20/55	20/55	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25	7/25	7/25
Compatible outdoor units		401/601	401/601	801/1101	801/1101	1401
Backup heater, capacity	kW	3	6	9	9	9
Backup heater, connection	Ph+N	220-240/1+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Backup heater, recommend fusing	A	16	2x 16	3x 16	3x 16	3x 16
Water flow rate (min.)	m³/h	0,66	0,66	0,78	0,78	0,78
Water pump, power consumption (max.)	kW	0,060	0,060	0,060	0,060	0,060
Water pump, discharge head (max.)	m	7,2	7,2	7,2	7,2	7,2
Water pump, energy efficiency class		EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20
Expansion vessel	l	10	10	10	10	10
Water connection (inlet/outlet)	Inch	3/4	3/4	3/4	3/4	3/4
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)	6,3 (1/4)	6,3 (1/4)	6,3 (1/4)
Suction gas pipe diameter	mm (inch)	12,7 (1/2)	12,7 (1/2)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Sound power level	dB(A)	40	40	40	42	45
Sound power level	dB(A)	40	40	40	42	45
Sound pressure level (low/med/high)	dB(A)	28	28	30	-	30
Sound pressure level (low/med/high)	dB(A)	28	28	24	-	24
Refrigerant		R32	R32	R32	R32	R32
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Weight	kg	116	116	116	116	122
Price	€	7.880,-	7.925,-	8.040,-	8.500,-	9.030,-
						9.440,-



ESTIA hot water tank R410A

- Manufactured from stainless steel for durability



INDOOR UNIT	HWS-1501CSHM3-E	HWS-2101CSHM3-E	HWS-3001CSHM3-E
Tank volume	l	150	210
Water temperature (max.)	°C	75	75
Backup heater, capacity	kW	2,75	2,75
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Dimensions (HxØ)	mm	1090 x 550	1474 x 550
Weight (dry/wet)	kg	31 / 181	41 / 251
Price	€	1.955,-	2.325,-
			2.770,-



ESTIA R410A Accessories

ESTIA R410A

ACCESSORIES	DESCRIPTION	PRICE €
HWS-AMS54E	External control unit (wired)	245,-
TCB-PCIN3E	Enable signal for external heat generator and error signal output or compressor operating and defrosting signal outputs	195,-
TCB-PCM03E	Input for external room thermostat or input for emergency stop or external on/off	150,-
95612037	Temperature sensor for locally provided hot water tank	76,-
VK320MOAIRC001	Replacement flow switch, for sizes 8, 11, 14	95,-
BMS-IFKXOAWR-E	KNX® interface, integration in building control systems, group control for up to 8 units (R410A)	740,-
BMS-IFMBOUEW-E	Modbus interface, integration in building control systems, group control for up to 8 units	640,-

ESTIA R32 Accessories



ESTIA R32

ACCESSORIES	DESCRIPTION	PRICE €
HWS-AMSU51-E	External control unit (wired)	215,-
HWS-IFAIP01U-E	0-10 volt interface, for external control via 0-10 volt signals	360,-
HWS-IWF0010UP-E	ESTIA R32 WiFi Adapter	180,-
95612037	Temperature sensor for locally provided hot water tank	76,-
BMS-IFKXOUEW-E	KNX® interface, integration in building control systems, group control for up to 8 units (R32)	770,-
BMS-IFMBOUEW-E	Modbus interface, integration in building control systems, group control for up to 8 units	640,-



SOUND INSULATION HOOD EXCLUSIVELY FOR ESTIA R32

"Silent Wave ST ESTIA Edition"

Available here:



Franz-von-Tschabuschnigstrasse 12

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www.silent24.at

Current Consumption + Fusing

TYPE	Running current (max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	V/Ph+N/Hz		
ESTIA 4kW					
HWT-401HW-E	14,60	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
ESTIA 6kW					
HWT-601HW-E	14,60	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
ESTIA 8kW					
HWT-801HW-E	19,98	20	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-801H8W-E	3x 13	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
ESTIA 11kW					
HWT-1101HW-E	19,98	20	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-1101H8W-E	3x 13	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
HWS-1105H8-E	3x 14,60	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
HWS-P1105H8R-E	3x 14,60	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
ESTIA 14kW					
HWT-1401HW-E	19,98	20	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-1401H8W-E	3x 13	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
HWS-1405H-E	22,80	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWS-1405H8-E	3x 14,60	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
HWS-P1405H8R-E	3x 14,60	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
ESTIA 16kW					
HWS-1605H8-E	3x 14,60	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5

ESTIA



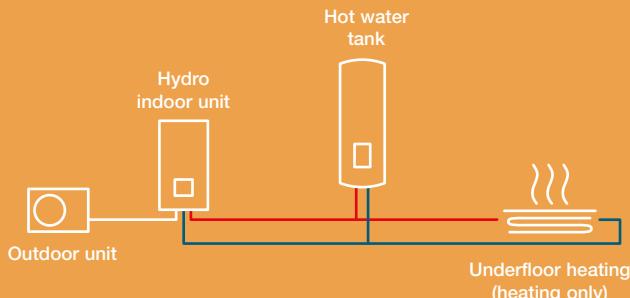
Sound Power Level / Sound Pressure

TYPE	Sound power level (ERP)	Sound power level (max.) /Heating capacity	Sound power level (max.)	Sound pressure level (Rated, 1m)	Sound pressure level (Rated, 1m)	Sound power level (night operation) /Heating capacity	Sound power level (night operation)	Sound pressure level (night operation, @ 1m)	Sound pressure level (night operation, @ 1m)
	dB(A) *	dB(A) /kW *	dB(A) ❄️	dB(A) *	dB(A) ❄️	dB(A) /kW *	dB(A) ❄️	dB(A) *	dB(A) ❄️
ESTIA 4kW									
HWT-401HW-E	66	71 /7,25	65	45	46	54 /2,85	55	40	41
ESTIA 6kW									
HWT-601HW-E	66	71 /7,25	65	46	46	58 /4,29	57	42	41
ESTIA 8kW									
HWT-801HW-E	65	71 /11,90	66	51	50	58 /5,93	59	46	47
HWT-801H8W-E	65	71 /12,27	66	50	53	61 /5,93	61	49	48
ESTIA 11kW									
HWT-1101HW-E	65	72 /13,24	67	51	51	62 /8,28	60	49	47
HWT-1101H8W-E	65	72 /15,50	67	58	54	61 /8,28	62	49	49
HWS-1105H8-E	-	66	66	51	51	61	60	46	46
HWS-P1105H8R-E	-	67	66	50	51	61	60	46	46
ESTIA 14kW									
HWT-1401HW-E	69	72 /18,39	70	59	59	62 /11,12	63	50	51
HWT-1401H8W-E	69	72 /18,39	70	59	59	62 /11,12	63	50	51
HWS-1405H-E	-	68	68	52	52	61	60	46	46
HWS-1405H8-E	-	68	68	52	52	61	60	46	46
HWS-P1405H8R-E	-	68	68	51	52	61	60	46	46
ESTIA 16kW									
HWS-1605H8-E	-	69	69	53	53	61	60	46	46

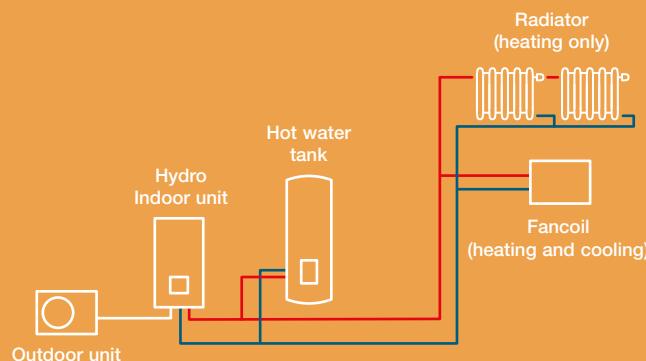
ESTIA

1 ZONE WITH HEATING FUNCTION

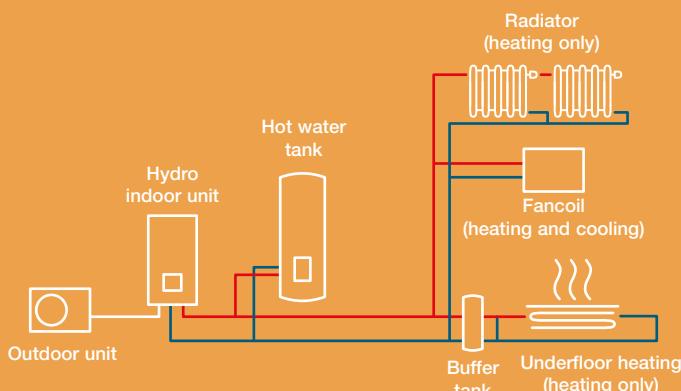
1 zone with heating function and hot water preparation

**1 ZONE WITH HEATING AND COOLING FUNCTION**

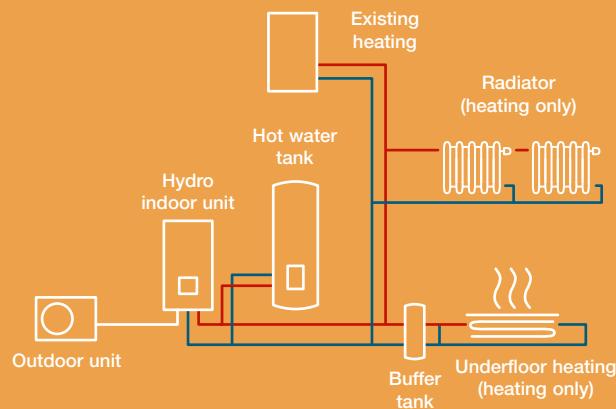
1 zone with heating and cooling function, plus hot water preparation

**2 ZONES WITH COOLING FUNCTION**

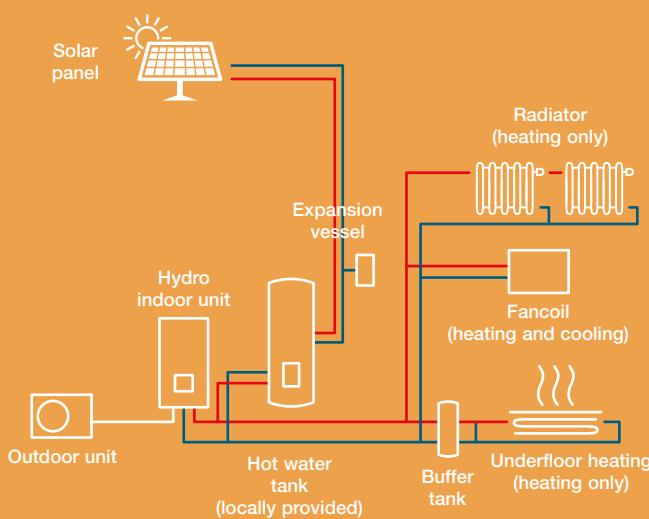
Typical application for a new building

**2 ZONES WITH EXISTING HEATING SYSTEM**

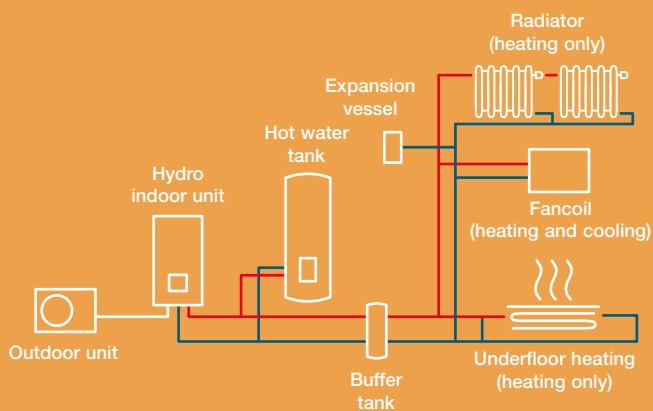
Typical application for a building with existing heating system

**2 ZONES WITH SOLAR AND COOLING FUNCTION**

Typical application for a new building

**2 ZONES WITH BUFFER TANK AND COOLING FUNCTION**

Typical application for a new building



PLEASE NOTE: The examples shown above are purely symbolic diagrams.



THE PERFORMANCE YOU NEED.
THE COMFORT YOU EXPECT.

OVERVIEW OF RAV OUTDOOR UNITS

- › Reliable & durable partners for all commercial sectors
- › Efficiency up to A+++ for 24/7 usage
- › Controlled locally, centrally, or via BMS



CLASSIC DIGITAL INVERTER (DI-C)

Cooling capacity (kW): 5.0 | 6.7 | 10.0 | 12.0 | 14.0

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NEXT DIGITAL INVERTER (DI NEXT)

Cooling capacity (kW): 2.5 | 3.6 | 5.0 | 6.7 |
8.0 | 10.0 | 12.0 | 14.0

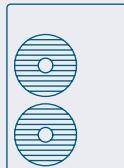
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SUPER DIGITAL INVERTER (SDI)

Cooling capacity (kW): 5.3 | 7.1 | 10.0 | 12.5 | 14.0

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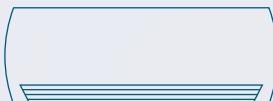
BIG DIGITAL INVERTER (DI BIG)

Cooling capacity (kW): 19.4 | 22.5

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OVERVIEW OF RAV INDOOR UNITS

HIGH-WALL UNITS



HIGH-WALL UNIT

Cooling capacity (kW): 2.5 | 3.6 | 5.0 | 6.7 | 8.0 | 9.5 |
10.0

DI-C, DI NEXT, SDI, DI BIG

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CEILING UNITS



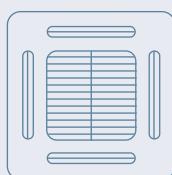
CEILING UNIT

Cooling capacity (kW): 3.6 | 5.0 | 6.9 | 8.0 | 9.5 | 12.1 |
14.0

DI NEXT, SDI, DI BIG

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CASSETTE UNITS



60x60 SLIM CASSETTE

Cooling capacity (kW): 2.5 | 3.6 | 5.0
DI NEXT, SDI, DI BIG

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SMART CASSETTE

Cooling capacity (kW): 5.0 | 7.1 | 10.0 | 12.5
SDI

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4-WAY STANDARD CASSETTE

Cooling capacity (kW): 5.0 | 6.7 | 8.0 | 9.5 | 12.0 | 14.0
DI-C, DI NEXT, SDI, DI BIG

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1-WAY FLAT CASSETTE

Cooling capacity (kW): 2.5 | 3.6
DI NEXT

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DUCT UNITS

SLIM DUCT UNIT

Cooling capacity (kW): 2.5 | 3.6 | 5.0
DI NEXT, SDI, DI BIG

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STANDARD DUCT UNIT

Cooling capacity (kW): 5.0 | 6.7 | 8.0 | 9.5 | 12.1 | 14.0
DI-C, DI NEXT, SDI, DI BIG

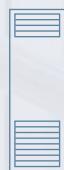
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HIGH-PRESSURE DUCT UNIT

Cooling capacity (kW): 19.0 | 22.5
DI BIG

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FLOOR STANDING UNITS



FLOOR STANDING UNIT

Cooling capacity (kW): 5.0 | 6.7 | 9.5 | 12.1 | 14.0
DI NEXT, SDI

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SPECIAL SOLUTIONS

DIRECT EXPANSION KIT

Cooling capacity (kW): 2.5 – 23.0
SDI, DI BIG

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DIRECT EXPANSION KIT NEXT

Cooling capacity (kW): 3.0 – 27.0
DI, DI NEXT, SDI, DI BIG

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AIR CURTAIN

Available upon request

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High-wall unit

- › Combined with DI CLASSIC outdoor unit
- › Compact allrounder for all uses
- › Efficiency up to A++, COP up to 4.00
- › Whisper-quiet 5-speed fan
- › Special features for server rooms: backup/rotation function, free-cooling control



Digital Inverter CLASSIC – High-wall unit

INDOOR UNIT OUTDOOR UNIT	1-phase				3-phase
	RAV-HM561K RTP-E RAV-GV561ATP-E	RAV-HM801K RTP-E RAV-GV801ATP-E	RAV-HM1101K RTP-E RAV-GV1101ATP-E	RAV-HM1101K RTP-E RAV-GV1101AT8P-E	
Cooling capacity	kW	5,00	6,70	9,50	9,50
Cooling range (min.-max.)	kW	1,50 - 5,60	1,50 - 8,00	3,00 - 10,60	3,00 - 11,20
Power consumption (min./nom./max.)	kW	- /1,45/-	- /2,20/-	- /3,80/-	- /3,40/-
Energy efficiency EER	W/W	3,45	3,05	2,50	2,79
Energy efficiency SEER		6,20	5,75	6,00	3,10
Energy efficiency class		A++	A+	A+	A++
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	5,30	7,00	10,00	10,00
Heating range (min.-max.)	kW	1,50 - 6,30	1,50 - 9,00	3,00 - 13,00	3,00 - 13,00
Power consumption (min./nom./max.)	kW	- /1,50/-	- /2,20/-	- /3,30/-	- /3,20/-
Energy efficiency COP	W/W	3,53	3,18	3,03	3,13
Energy efficiency SCOP		3,90	3,90	4,00	4,10
Energy efficiency class		A	A	A+	A+
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	380-415/3+N/50
Recommended fusing	A	16	16	20	3x 16
Set price	€	2.090,-	2.520,-	3.200,-	3.560,-
INDOOR UNIT					
	RAV-HM561K RTP-E	RAV-HM801K RTP-E	RAV-HM1101K RTP-E	RAV-HM1101K RTP-E	
Airflow	m³/h	680/- /960	680/910/1040	1180/- /1610	1180/- /1610
Sound pressure level (low/med/high)	dB(A)	35/39/42	35/41/45	41/45/49	41/45/49
Sound pressure level (low/med/high)	dB(A)	35/39/42	35/41/45	41/45/49	41/45/49
Dimensions (HxWxD)	mm	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	348 x 1200 x 280
Weight	kg	14	14	19	19
Price	€	700,-	720,-	900,-	900,-
OUTDOOR UNIT					
	RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1101AT8P-E	
Sound pressure level (low/med/high)	dB(A)	46	48	53	53
Sound pressure level (low/med/high)	dB(A)	48	51	55	55
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	20	20	30	30
Height difference (max.)	m	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,40	1,70	1,70
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320
Weight	kg	36	39	45	60
Price	€	1.390,-	1.800,-	2.300,-	2.660,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included		
RBC-AMSU52-E	Wired comfort remote control PLUS		205,-

You will find all the control options from page 116 onwards.

High-wall unit

- Combined with DI NEXT outdoor unit
- Compact allrounder for all uses
- Efficiency up to A++, COP up to 4.00
- Whisper-quiet 5-speed fan
- Special features for server rooms: backup/rotation function, free-cooling control



Digital Inverter NEXT – High-wall unit

INDOOR UNIT OUTDOOR UNIT	1-phase								3-phase	
	RAV-HM301K RTP-E RAV-GM302ATP-E	RAV-HM401K RTP-E RAV-GM402ATP-E	RAV-HM561K RTP-E RAV-GM562ATP-E	RAV-HM801K RTP-E RAV-GM802ATW-E	RAV-HM901K RTP-E RAV-GM902ATW-E	RAV-HM1101K RTP-E RAV-GM1102ATW-E	RAV-HM1101K RTP-E RAV-GM1102AT8W-E			
Cooling capacity	kW	2,50	3,60	5,00	6,70	8,00	9,50	9,50		
Cooling range (min.-max.)	kW	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 11,20		
Power consumption (min./nom./max.)	kW	0,17/0,61/ 0,86	0,18/1,13/ 2,00	0,30/1,66/ 1,86	0,31/2,06/ 2,86	0,31/2,67/ 3,16	0,63/2,96/ 3,95	0,67/2,95/ 3,91		
Energy efficiency EER	W/W	4,10	3,19	3,01	3,25	3,00	3,21	3,22		
Energy efficiency SEER		7,00	6,70	6,69	6,60	6,60	6,40	6,10		
Energy efficiency class		A++	A++	A++	A++	A++	A++	A++		
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46		
Heating capacity	kW	3,40	4,00	5,30	7,70	8,60	11,20	11,20		
Heating range (min.-max.)	kW	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 13,00		
Power consumption (min./nom./max.)	kW	0,17/0,85/ 1,40	0,14/1,12/ 1,70	0,30/1,55/ 2,40	0,38/2,30/ 3,04	0,38/2,61/ 3,27	0,73/3,44/ 4,33	0,77/3,38/ 4,29		
Energy efficiency COP	W/W	4,00	3,57	3,42	3,35	3,30	3,26	3,31		
Energy efficiency SCOP		4,12	4,24	4,02	4,05	4,10	4,20	4,20		
Energy efficiency class		A+	A+	A+	A+	A+	A+	A+		
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15		
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	380-415/3+N/ 50		
Recommended fusing	A	10	10	16	16	16	25	3x 16		
Set price	€	1.870,-	2.190,-	2.550,-	3.170,-	3.480,-	4.200,-	4.680,-		

INDOOR UNIT	RAV-HM301K RTP-E	RAV-HM401K RTP-E	RAV-HM561K RTP-E	RAV-HM801K RTP-E	RAV-HM901K RTP-E	RAV-HM1101K RTP-E	RAV-HM1101K RTP-E
Airflow	m³/h	450/540/ 670	450/580/ 700	680/- / 960	680/910/ 1040	680/- / 1180	1180/- / 1610
Sound pressure level (low/med/high)	dB(A)	29/34/40	30/36/41	35/39/42	35/41/45	35/41/47	41/45/49
Sound pressure level (low/med/high)	dB(A)	29/34/40	30/36/41	35/39/42	35/41/45	35/41/47	41/45/49
Dimensions (HxWxD)	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280
Weight	kg	10	10	14	14	14	19
Price	€	600,-	640,-	700,-	720,-	800,-	900,-

OUTDOOR UNIT	RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1102AT8W-E
Sound pressure level (low/med/high)	dB(A)	46	49	46	50	52	53
Sound pressure level (low/med/high)	dB(A)	47	50	48	52	55	56
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	2	2	5	5	5	5
Pipe length (max.)	m	20	20	30	50	50	50
Height difference (max.)	m	10	10	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,60	0,90	0,90	1,90	1,90	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370
Weight	kg	29	34	40	47	47	85
Price	€	1.270,-	1.550,-	1.850,-	2.450,-	2.680,-	3.300,-
							3.780,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RBC-AMSU52-E	Wired comfort remote control PLUS		205,-

You will find all the control options from page 116 onwards.

High-wall unit

- Combined with SDI outdoor unit
- Compact allrounder for all uses
- Efficiency up to A++, COP up to 4.00
- Whisper-quiet 5-speed fan



Super Digital Inverter – High-wall unit

INDOOR UNIT OUTDOOR UNIT	1-phase			3-phase	
	RAV-HM561K RTP-E RAV-GP561ATW-E	RAV-HM801K RTP-E RAV-GP801ATW-E	RAV-HM1101K RTP-E RAV-GP1101AT-E	RAV-HM1101K RTP-E RAV-GP1101AT8-E	
Cooling capacity	kW	5,00	7,10	10,00	10,00
Cooling range (min.-max.)	kW	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	2,60 - 12,00
Power consumption (min./nom./max.)	kW	0,19/1,43/1,98	0,26/2,06/3,17	0,55/2,77/3,90	- / 2,86 / -
Energy efficiency EER	W/W	3,50	3,45	3,61	3,50
Energy efficiency SEER		7,84	7,56	7,36	6,53
Energy efficiency class		A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52	-15 / +46
Heating capacity	kW	5,60	8,00	11,20	11,20
Heating range (min.-max.)	kW	0,90 - 7,30	1,30 - 11,30	2,60 - 13,00	2,40 - 13,00
Power consumption (min./nom./max.)	kW	0,16/1,39/2,67	0,20/2,25/3,50	0,52/3,13/4,40	- / 3,25 / -
Energy efficiency COP	W/W	4,03	3,56	3,58	3,45
Energy efficiency SCOP		4,19	4,16	4,42	4,22
Energy efficiency class		A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	-27 / +15	-27 / +15	-27 / +15	-20/ +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	380-415/3+N/50
Recommended fusing	A	16	20	25	3x 16
Set price	€	2.900,-	3.560,-	5.200,-	5.110,-
INDOOR UNIT					
Airflow	m³/h	680 / - / 960	680/910/1040	1180 / - / 1610	1180 / - / 1610
Sound pressure level (low/med/high)	dB(A)	35/39/42	35/41/45	41/45/49	41/45/49
Sound pressure level (low/med/high)	dB(A)	35/39/42	35/41/45	41/45/49	41/45/49
Dimensions (HxWxD)	mm	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	350 x 1200 x 280
Weight	kg	14	14	19	19
Price	€	700,-	720,-	900,-	900,-
OUTDOOR UNIT					
Sound pressure level (low/med/high)	dB(A)	46	46	49	49
Sound pressure level (low/med/high)	dB(A)	48	48	50	50
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	2,60
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
Weight	kg	45	74	104	95
Price	€	2.200,-	2.840,-	4.300,-	4.210,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RBC-AM-SU52-E	Wired comfort remote control PLUS		205,-

You will find all the control options from page 116 onwards.

Ceiling unit

- › Combined with DI NEXT outdoor unit
- › Attractive design for optimum air distribution
- › Efficiency up to A+++
- › Large air throw distances
- › Special features for server rooms: backup/rotation function, free-cooling control



Digital Inverter NEXT – 1-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM401CTP-E RAV-GM402ATP-E	RAV-HM561CTP-E RAV-GM562ATP-E	RAV-HM801CTP-E RAV-GM802ATW-E	RAV-HM901CTP-E RAV-GM902ATW-E	RAV-HM1101CTP-E RAV-GM1102ATW-E	RAV-HM1401CTP-E RAV-GM1402ATW-E	RAV-HM1601CTP-E RAV-GM1602ATW-E
Cooling capacity	kW	3,60	5,00	6,90	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	0,18/0,83/ 2,00	0,29/1,61/ 1,95	0,30/2,06/ 2,66	0,30/2,38/ 2,75	0,58/2,59/ 3,29	0,58/4,01/ 4,39	0,58/5,04/ 6,12
Energy efficiency EER	W/W	4,34	3,11	3,35	3,36	3,67	3,02	2,78
Energy efficiency SEER		7,20	6,00	7,03	7,0	7,00	6,16	6,25
Energy efficiency class		A++	A+	A++	A++	n/a	n/a	
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	4,00	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW	0,14/0,78/ 1,70	0,29/1,36/ 2,40	0,29/1,99/ 2,57	0,29/2,15/ 2,62	0,66/2,86/ 3,49	0,66/3,48/ 4,61	0,66/4,75/ 5,78
Energy efficiency COP	W/W	5,13	3,90	3,87	4,00	3,91	3,74	3,37
Energy efficiency SCOP		5,13	4,34	4,48	4,60	4,30	4,28	4,30
Energy efficiency class		A+++	A+	A+	A++	n/a	n/a	
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	10	16	16	16	25	25	32
Set price incl. RBC-AMTU31-E	€	2.850,-	3.220,-	3.980,-	4.360,-	5.010,-	5.450,-	6.240,-

INDOOR UNIT		RAV-HM401CTP-E	RAV-HM561CTP-E	RAV-HM801CTP-E	RAV-HM901CTP-E	RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h	540/720/ 900	540/720/ 900	750/1000/ 1410	900/- / 1600	1020/1350/ 1860	1200/1530/ 2040	1200/1650/ 2040
Sound pressure level (low/med/high)	dB(A)	28/35/37	28/35/37	29/36/41	30/38/42	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A)	28/35/37	28/35/37	29/36/41	30/38/42	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	23	23	29	37	37	37	37
Price	€	1.150,-	1.220,-	1.380,-	1.530,-	1.560,-	1.740,-	1.840,-

OUTDOOR UNIT		RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	49	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	50	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	2	5	5	5	5	5	5
Pipe length (max.)	m	20	30	50	50	50	50	50
Height difference (max.)	m	10	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	34	40	47	47	85	85	88
Price	€	1.550,-	1.850,-	2.450,-	2.680,-	3.300,-	3.560,-	4.250,-

You will find all the control options from page 116 onwards.

LIGHT BUSINESS / RAV

Digital Inverter NEXT – 3-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT	RAV-HM1101CTP-E RAV-GM1102AT8W-E	RAV-HM1401CTP-E RAV-GM1402AT8W-E	RAV-HM1601CTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	9,50	12,10
Cooling range (min.-max.)	kW	3,00 - 11,20	3,00 - 13,20
Power consumption (min./nom./max.)	kW	0,62/2,55/3,25	0,62/3,94/4,35
Energy efficiency EER	W/W	3,72	3,07
Energy efficiency SEER		6,46	5,87
Energy efficiency class		A++	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46
Heating capacity	kW	11,20	13,00
Heating range (min.-max.)	kW	3,00 - 13,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW	0,70/2,83/3,45	0,70/3,43/4,57
Energy efficiency COP	W/W	3,95	3,79
Energy efficiency SCOP		4,29	4,20
Energy efficiency class		A+	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16
Set price incl. RBC-AMTU31-E	€	5.490,-	5.990,-
6.770,-			

INDOOR UNIT	RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h	1020/1350/1860	1200/1530/2040
Sound pressure level (low/med/high)	dB(A)	32/38/44	35/41/46
Sound pressure level (low/med/high)	dB(A)	32/38/44	35/41/46
Dimensions (HxWxD)	mm	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	37	37
Price	€	1.560,-	1.740,-
1.840,-			

OUTDOOR UNIT	RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	53	56
Sound pressure level (low/med/high)	dB(A)	56	56
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	50	50
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	2,40	2,40
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	85	85
Price	€	3.780,-	4.100,-
4.780,-			

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31C-E	Infrared remote control + receiver kit for installation in ceiling unit	355,-
TCB-DP31CE	Drain pump, discharge head 600 mm, measured from lower edge of unit	440,-
TCB-KP14CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	120,-
TCB-KP24CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	150,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

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Ceiling unit

- › Combined with SDI outdoor unit
- › Attractive design for optimum air distribution
- › Efficiency up to A+++
- › Large air throw distances
- › Special features for server rooms: backup/rotation function, free-cooling control



Super Digital Inverter – 1-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM561CTP-E RAV-GP561ATW-E	RAV-HM801CTP-E RAV-GP801ATW-E	RAV-HM1101CTP-E RAV-GP1101AT-E	RAV-HM1401CTP-E RAV-GP1401AT-E1
Cooling capacity	kW	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW	0,19/1,37/1,98	0,26/1,60/3,17	0,55/2,23/3,45	0,55/3,58/3,97
Energy efficiency EER	W/W	3,65	4,44	4,48	3,49
Energy efficiency SEER		6,93	8,35	8,58	7,99
Energy efficiency class		A++	A++	A+++	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW	0,90 - 7,40	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW	0,16/1,39/2,67	0,20/1,80/3,50	0,41/2,38/3,09	0,41/3,59/4,40
Energy efficiency COP	W/W	4,03	4,44	4,71	3,90
Energy efficiency SCOP		4,73	5,10	4,75	4,74
Energy efficiency class		A++	A++	A++	n/a
Outdoor temperature operating range (min.-max.)	°C	-27 / +15	-27 / +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	20	25	25
Set price incl. RBC-AMTU31-E	€	3.570,-	4.370,-	6.010,-	6.640,-

INDOOR UNIT		RAV-HM561CTP-E	RAV-HM801CTP-E	RAV-HM1101CTP-E	RAV-HM1401CTP-E
Airflow	m³/h	540/720/900	750/1000/1410	1020/1350/1860	1200/1530/2040
Sound pressure level (low/med/high)	dB(A)	28/35/37	29/36/41	32/38/44	35/41/46
Sound pressure level (low/med/high)	dB(A)	28/35/37	29/36/41	32/38/44	35/41/46
Dimensions (HxWxD)	mm	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	23	29	37	37
Price	€	1.220,-	1.380,-	1.560,-	1.740,-

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A)	46	46	49	50
Sound pressure level (low/med/high)	dB(A)	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
Price	€	2.200,-	2.840,-	4.300,-	4.750,-

You will find all the control options from page 116 onwards.

Super Digital Inverter – 3-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM1101CTP-E RAV-GP1101AT8-E	RAV-HM1401CTP-E RAV-GP1401AT8-E	RAV-HM1601CTP-E RAV-GP1601AT8-E
Cooling capacity	kW	10,00	12,50	14,00
Cooling range (min.-max.)	kW	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	0,66/2,56/3,81	0,66/3,68/4,85	0,66/4,60/6,33
Energy efficiency EER	W/W	3,91	3,40	3,04
Energy efficiency SEER		6,80	6,60	6,24
Energy efficiency class		A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	11,20	14,00	16,00
Heating range (min.-max.)	kW	2,40 - 14,00	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	0,53/2,51/4,26	0,53/3,48/5,95	0,53/4,30/6,96
Energy efficiency COP	W/W	4,46	4,02	3,72
Energy efficiency SCOP		4,23	4,22	4,21
Energy efficiency class		A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E	€	5.920,-	6.290,-	6.970,-

INDOOR UNIT		RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h	1020/1350/1860	1200/1530/2040	1200/1650/2040
Sound pressure level (low/med/high)	dB(A)	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A)	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	37	37	37
Price	€	1.560,-	1.740,-	1.840,-

OUTDOOR UNIT		RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A)	49	51	51
Sound pressure level (low/med/high)	dB(A)	50	52	53
Suction gas pipe diameter	mm (inch)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	75	75	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,60	2,60	2,60
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	95	95	95
Price	€	4.210,-	4.400,-	4.980,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31C-E	Infrared remote control + receiver kit for installation in ceiling unit	355,-
RBC-AMSU52-E	Wired comfort remote control PLUS	205,-
TCB-DP31CE	Drain pump, discharge head 600 mm, measured from lower edge of unit	440,-
TCB-KP14CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	120,-
TCB-KP24CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	150,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

60x60 slim cassette

- › Combined with DI NEXT outdoor unit
- › 360° air distribution in the Euro-grid with installation height of just 256 mm
- › Efficiency up to A++; enhanced energy savings via presence sensor option
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Accessories required: remote control + panel



Digital Inverter NEXT – 1-phase – 60x60 slim cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM301MUT-E RAV-GM302ATP-E	RAV-HM401MUT-E RAV-GM402ATP-E	RAV-HM561MUT-E RAV-GM562ATP-E
Cooling capacity	kW	2,50	3,60	5,00
Cooling range (min.-max.)	kW	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60
Power consumption (min./nom./max.)	kW	0,18/0,59/0,82	0,18/0,90/2,00	0,30/1,64/1,86
Energy efficiency EER	W/W	4,24	4,00	3,05
Energy efficiency SEER		6,86	6,70	6,19
Energy efficiency class		A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	3,40	4,00	5,30
Heating range (min.-max.)	kW	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30
Power consumption (min./nom./max.)	kW	0,17/0,76/1,40	0,14/0,95/1,70	0,30/1,47/2,40
Energy efficiency COP	W/W	4,47	4,21	3,61
Energy efficiency SCOP		4,73	4,46	4,40
Energy efficiency class		A++	A+	A+
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	16
Set price incl. RBC-AMTU31-E + RBC-UM21PG(W)-E	€	3.125,-	3.450,-	3.770,-

INDOOR UNIT		RAV-HM301MUT-E	RAV-HM401MUT-E	RAV-HM561MUT-E
Airflow	m³/h	440/520/640	468/552/660	546/672/798
Sound pressure level (low/med/high)	dB(A)	30/36/38	32/36/41	35/39/40
Sound pressure level (low/med/high)	dB(A)	30/36/38	32/36/41	35/39/40
Dimensions (HxWxD)	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
Weight	kg	15	15	15
Price	€	1.265,-	1.310,-	1.330,-

OUTDOOR UNIT		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E
Sound pressure level (low/med/high)	dB(A)	46	49	46
Sound pressure level (low/med/high)	dB(A)	47	50	48
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (1/2)	12,7 (1/2)
Liquid pipe diameter	mm (inch)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)
Pipe length (min.)	m	2	2	5
Pipe length (max.)	m	20	20	30
Height difference (max.)	m	10	10	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	0,60	0,90	0,90
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg	29	34	40
Price	€	1.270,-	1.550,-	1.850,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21PG(W)-E	Panel for 60x60 slim cassette	440,-
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31UM-E	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSU)	180,-
TCB-SIR41UM-E	Occupancy sensor kit for installation in 60x60 slim cassette	130,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

60x60 slim cassette

- › Combined with SDI outdoor unit
- › 360° air distribution in the Euro-grid with installation height of just 256 mm
- › Efficiency up to A++; enhanced energy savings via presence sensor option
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Accessories required: remote control + panel



Super Digital Inverter – 1-phase – 60x60 slim cassette

INDOOR UNIT		RAV-HM561MUT-E RAV-GP561ATW-E
Cooling capacity	kW	5,00
Cooling range (min.-max.)	kW	1,20 - 5,60
Power consumption (min./nom./max.)	kW	0,19/1,56/1,97
Energy efficiency EER	W/W	3,21
Energy efficiency SEER		6,27
Energy efficiency class		A++
Outdoor temperature operating range (min.-max.)	°C	-15 / +52
Heating capacity	kW	5,60
Heating range (min.-max.)	kW	0,90 - 7,00
Power consumption (min./nom./max.)	kW	0,16/1,60/2,36
Energy efficiency COP	W/W	3,50
Energy efficiency SCOP		4,32
Energy efficiency class		A+
Outdoor temperature operating range (min.-max.)	°C	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50
Recommended fusing	A	16
Set price incl. RBC-AMTU31-E + RBC-UM21PG(W)-E	€	4.120,-

INDOOR UNIT		RAV-HM561MUT-E
Airflow	m³/h	546/672/798
Sound pressure level (low/med/high)	dB(A)	35/39/44
Sound pressure level (low/med/high)	dB(A)	35/39/44
Dimensions (HxWxD)	mm	256 x 575 x 575
Weight	kg	15
Panel dimensions (HxWxD)	mm	12 x 620 x 620
Panel weight	kg	2,5
Price	€	1.330,-

OUTDOOR UNIT		RAV-GP561ATW-E
Sound pressure level (low/med/high)	dB(A)	46
Sound pressure level (low/med/high)	dB(A)	48
Suction gas pipe diameter	mm (inch)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,4 (¼)
Pipe length (min.)	m	5
Pipe length (max.)	m	50
Height difference (max.)	m	30
Compressor type		Twin-Rotary
Refrigerant		R32
Refrigerant charge	kg	1,35
Dimensions (HxWxD)	mm	630 x 799 x 299
Weight	kg	45
Price	€	2.200,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21PG(W)-E	Panel for 60x60 slim cassette	440,-
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31UM-E	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	180,-
TCB-SIR41UM-E	Occupancy sensor kit for installation in 60x60 slim cassette	130,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

Smart cassette

- › Combined with SDI outdoor unit
- › 4-way high-efficiency design for large capacities
- › Efficiency up to A++; enhanced energy savings via presence sensor option
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Not a stock item – lead time on request
- › Accessories required: remote control + panel



Super Digital Inverter – 1-phase – Smart cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM561UT-E RAV-GP561ATW-E	RAV-HM801UT-E RAV-GP801ATW-E	RAV-HM1101UT-E RAV-GP1101AT-E	RAV-HM1401UT-E RAV-GP1401AT-E1
Cooling capacity	kW	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW	0,19/1,20/2,03	0,26/1,37/2,94	0,56/1,90/2,80	0,56/2,91/3,40
Energy efficiency EER	W/W	4,17	5,18	5,26	4,30
Energy efficiency SEER		8,17	9,72	9,25	8,87
Energy efficiency class		A++	A+++	-	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW	0,90 - 8,10	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW	0,16/1,29/2,75	0,20/1,45/3,15	0,41/2,18/2,98	0,41/3,04/4,18
Energy efficiency COP	W/W	4,34	5,52	5,14	4,61
Energy efficiency SCOP		5,02	5,54	5,03	5,00
Energy efficiency class		A++	A+++	-	n/a
Outdoor temperature operating range (min.-max.)	°C	-27 / +15	-27 / +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Nz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	20	25	25
Set price incl. RBC-AMTU31-E + RBC-U41PG(W)-E	€	4.050,-	5.000,-	6.675,-	7.345,-

INDOOR UNIT		RAV-HM561UT-E	RAV-HM801UT-E	RAV-HM1101UT-E	RAV-HM1401UT-E
Airflow	m³/h	750/900/1050	810/1290/1920	1050/1650/2250	1170/1710/2250
Sound pressure level (low/med/high)	dB(A)	26/29/32	27/35/42	31/40/48	33/41/48
Sound pressure level (low/med/high)	dB(A)	26/29/32	27/35/42	31/40/48	33/41/48
Dimensions (HxWxD)	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950			
Panel weight	kg	5	5	5	5
Price	€	1.270,-	1.580,-	1.795,-	2.015,-

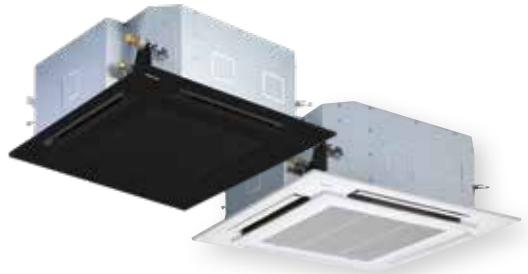
OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A)	46	46	49	50
Sound pressure level (low/med/high)	dB(A)	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
Price	€	2.200,-	2.840,-	4.300,-	4.750,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U41PG(W)-E	Panel for smart cassette	430,-
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU41U-E	Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	315,-
TCB-SIR41U-E	Occupancy sensor kit for installation in smart cassette	130,-
TCB-GFC1603UE	Fresh air filter	290,-
TCB-SP1603UE	Spacer frame for lowering the panel by 70 mm	230,-
TCB-BC1603UE	Air discharge direction kit for blocking of up to three discharge sides	75,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-

You will find all the control options from page 116 onwards.

4-way standard cassette

- › Combined with DI CLASSIC outdoor unit
- › 360° air distribution or direct air flow
- › Efficiency up to A++
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Accessories required: remote control + panel



Digital Inverter CLASSIC – 1-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM561UTP-E RAV-GV561ATP-E	RAV-HM801UTP-E RAV-GV801ATP-E	RAV-HM1101UTP-E RAV-GV1101ATP-E	RAV-HM1401UTP-E RAV-GV1401ATP-E	RAV-HM1601UTP-E RAV-GV1601ATP-E
Cooling capacity	kW	5,00	6,70	9,50	11,50	13,00
Cooling range (min.-max.)	kW	1,50 - 5,60	1,50 - 8,00	3,00 - 11,20	3,00 - 12,00	3,00 - 14,00
Power consumption (min./nom./max.)	kW	- / 1,60 / -	0,26/2,22/ 2,60	- / 3,15 / -	- / 4,60 / -	- / 5,40 / -
Energy efficiency EER	W/W	3,13	3,02	3,02	2,50	2,41
Energy efficiency SEER		6,20	5,81	6,00	5,10	5,90
Energy efficiency class		A++	A+	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	5,30	7,70	10,00	11,90	13,50
Heating range (min.-max.)	kW	1,50 - 6,30	1,50 - 9,00	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	- / 1,40 / -	0,26/2,13/ 3,03	- / 3,10 / -	- / 3,80 / -	- / 3,90 / -
Energy efficiency COP	W/W	3,79	3,62	3,23	3,13	3,46
Energy efficiency SCOP		4,20	4,42	4,00	3,90	4,20
Energy efficiency class		A+	A+	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	16	16	20	25	25
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	€	3.000,-	3.570,-	4.360,-	4.850,-	5.850,-

INDOOR UNIT		RAV-HM561UTP-E	RAV-HM801UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h	780/870/ 1050	810/960/ 1230	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A)	28/29/32	28/31/35	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	28/29/32	28/31/35	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2	4,2	4,2
Price	€	1.100,-	1.260,-	1.550,-	1.730,-	1.950,-

OUTDOOR UNIT		RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E
Sound pressure level (low/med/high)	dB(A)	46	48	53	53	57
Sound pressure level (low/med/high)	dB(A)	48	51	55	60	59
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5
Pipe length (max.)	m	20	20	30	30	30
Height difference (max.)	m	20	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg	36	39	45	57	64
Price	€	1.390,-	1.800,-	2.300,-	2.610,-	3.390,-

You will find all the control options from page 116 onwards.

Digital Inverter CLASSIC – 3-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM1101UTP-E RAV-GV1101AT8P-E	RAV-HM1401UTP-E RAV-GV1401AT8P-E	RAV-HM1601UTP-E RAV-GV1601AT8P-E
Cooling capacity	kW	9,50	12,10	14,00
Cooling range (min.-max.)	kW	3,00 - 11,20	3,00 - 14,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW	- /3,10/ -	- /4,80/ -	0,65/4,49/5,70
Energy efficiency EER	W/W	3,06	2,52	3,12
Energy efficiency SEER		6,20	5,10	6,30
Energy efficiency class		A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	10,00	12,30	16,00
Heating range (min.-max.)	kW	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	- /3,00/ -	- /4,10/ -	0,65/4,43/5,66
Energy efficiency COP	W/W	3,33	3,00	3,61
Energy efficiency SCOP		4,10	3,90	4,35
Energy efficiency class		A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	€	4.720,-	5.110,-	6.410,-

INDOOR UNIT		RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h	1170/1440/2010	1230/1440/2100	1260/1500/2130
Sound pressure level (low/med/high)	dB(A)	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2
Price	€	1.550,-	1.730,-	1.950,-

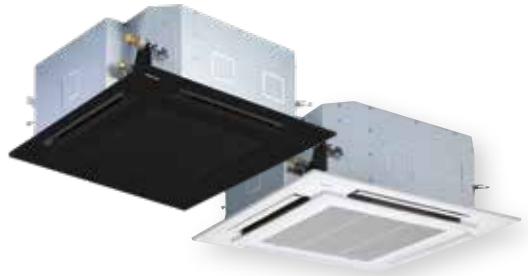
OUTDOOR UNIT		RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E
Sound pressure level (low/med/high)	dB(A)	53	53	57
Sound pressure level (low/med/high)	dB(A)	55	60	59
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	30	30	30
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	1,70	1,90	2,20
Dimensions (HxWxD)	mm	710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg	60	60	63
Price	€	2.660,-	2.870,-	3.950,-

You will find all the control options from page 116 onwards.

The accessories for the 4-way standard cassette can be found on page 89.

4-way standard cassette

- › Combined with DI NEXT outdoor unit
- › 360° air distribution or direct air flow
- › Efficiency up to A++
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Accessories required: remote control + panel



Digital Inverter NEXT – 1-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM561UTP-E RAV-GM562ATP-E	RAV-HM801UTP-E RAV-GM802ATW-E	RAV-HM901UTP-E RAV-GM902ATW-E	RAV-HM1101UTP-E RAV-GM1102ATW-E	RAV-HM1401UTP-E RAV-GM1402ATW-E	RAV-HM1601UTP-E RAV-GM1602ATW-E
Cooling capacity	kW	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	1,50 - 5,60	1,90 - 8,00	1,80 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	0,26/1,56/ 1,86	0,29/1,90/ 2,59	0,29/2,29/ 2,88	0,52/2,57/ 3,11	0,52/3,88/ 4,23	0,52/5,05/ 6,00
Energy efficiency EER	W/W	3,21	3,52	3,50	3,70	3,12	2,77
Energy efficiency SEER		6,84	7,50	7,50	7,50	7,30	6,60
Energy efficiency class		A++	A++	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	1,50 - 6,30	1,60 - 9,00	160 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	0,26/1,36/ 2,08	0,27/1,99/ 2,66	0,27/2,09/ 2,68	0,67/*2,86/ 3,39	0,67/3,43/ 4,55	0,67/4,72/ 5,47
Energy efficiency COP	W/W	3,90	3,87	4,12	3,92	3,79	3,39
Energy efficiency SCOP		4,62	4,60	4,60	4,40	4,40	4,40
Energy efficiency class		A++	A++	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	16	16	16	25	25	32
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	€	3.460,-	4.220,-	4.580,-	5.360,-	5.800,-	6.710,-

INDOOR UNIT		RAV-HM561UTP-E	RAV-HM801UTP-E	RAV-HM901UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h	780/870/ 1050	810/960/ 1230	900/- / 1600	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A)	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	24	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2	4,2	4,2	4,2
Price	€	1.100,-	1.260,-	1.390,-	1.550,-	1.730,-	1.950,-

OUTDOOR UNIT		RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5
Pipe length (max.)	m	30	50	50	50	50	50
Height difference (max.)	m	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	40	47	47	85	85	88
Price	€	1.850,-	2.450,-	2.680,-	3.300,-	3.560,-	4.250,-

You will find all the control options from page 116 onwards.

Digital Inverter NEXT – 3-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM1101UTP-E RAV-GM1102AT8W-E	RAV-HM1401UTP-E RAV-GM1402AT8W-E	RAV-HM1601UTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	9,50	12,10	14,00
Cooling range (min.-max.)	kW	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	0,56/2,52/3,07	0,56/3,81/4,19	0,56/4,92/5,90
Energy efficiency EER	W/W	3,76	3,17	2,84
Energy efficiency SEER		7,15	6,91	6,53
Energy efficiency class		A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	11,20	13,00	16,00
Heating range (min.-max.)	kW	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	0,71/2,82/3,35	0,71/3,39/4,51	0,71/4,65/6,71
Energy efficiency COP	W/W	3,97	3,83	3,44
Energy efficiency SCOP		4,29	4,30	4,38
Energy efficiency class		A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	€	5.840,-	6.340,-	7.240,-

INDOOR UNIT		RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h	1170/1440/2010	1230/1440/2100	1260/1500/2130
Sound pressure level (low/med/high)	dB(A)	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	319 × 840 × 840	319 × 840 × 840	319 × 840 × 840
Weight	kg	24	24	24
Panel dimensions (HxWxD)	mm	30 × 950 × 950	30 × 950 × 950	30 × 950 × 950
Panel weight	kg	4,2	4,2	4,2
Price	€	1.550,-	1.730,-	1.950,-

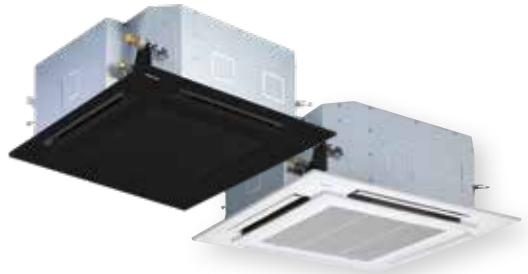
OUTDOOR UNIT		RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	53	56	57
Sound pressure level (low/med/high)	dB(A)	56	56	56
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	50	50	50
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R35	R32
Refrigerant charge	kg	2,40	2,40	2,40
Dimensions (HxWxD)	mm	1050 × 1010 × 370	1050 × 1010 × 370	1050 × 1010 × 370
Weight	kg	85	85	88
Price	€	3.780,-	4.100,-	4.780,-

You will find all the control options from page 116 onwards.

The accessories for the 4-way standard cassette can be found on page 89.

4-way standard cassette

- › Combined with SDI outdoor unit
- › 360° air distribution or direct air flow
- › Efficiency up to A++
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Accessories required: remote control + panel



Super Digital Inverter – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT	1-phase					3-phase		
	RAV-HM561UTP-E RAV-GP561ATW-E	RAV-HM801UTP-E RAV-GP801ATW-E	RAV-HM1101UTP-E RAV-GP1101AT-E	RAV-HM1401UTP-E RAV-GP1401AT-E1	RAV-HM1101UTP-E RAV-GP1101AT8-E	RAV-HM1401UTP-E RAV-GP1401AT8-E	RAV-HM1601UTP-E RAV-GP1601AT8-E	
Cooling capacity	kW	5,00	7,10	10,00	12,50	10,00	12,50	14,00
Cooling range (min.-max.)	kW	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	0,19/1,22/ 1,97	0,26/1,58/ 3,15	0,56/1,90/ 2,80	0,53/3,16/ 3,55	0,66/2,32/ 3,60	0,66/3,42/ 4,40	0,66/4,34/ 5,70
Energy efficiency EER	W/W	4,10	4,49	4,69	3,96	4,31	3,65	3,23
Energy efficiency SEER		7,73	8,96	9,00	8,59	7,32	7,35	6,99
Energy efficiency class		A++	A+++	A+++	n/a	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	5,60	8,00	11,20	14,00	11,20	14,00	16,00
Heating range (min.-max.)	kW	0,90 - 8,10	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50	2,40 - 15,60	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	0,16/1,30/ 2,76	0,20/1,77/ 3,47	041/2,18/ 2,98	0,40/3,21/ 4,38	0,53/2,41/ 4,30	053/3,41/ 5,50	0,53/4,28/ 6,51
Energy efficiency COP	W/W	4,31	4,52	4,79	4,36	4,65	4,11	3,74
Energy efficiency SCOP		4,98	5,24	4,76	4,75	4,38	4,38	4,38
Energy efficiency class		A++	A+++	A++	n/a	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-27 / +15	-27 / +15	-27 / +15	-27 / +15	-20 / +15	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Recommended fusing	A	16	20	25	25	3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	€	3.810,-	4.610,-	6.360,-	6.990,-	6.270,-	6.640,-	7.440,-

INDOOR UNIT	RAV-HM561UTP-E	RAV-HM801UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E	
Airflow	m³/h	780/870/ 1050	810/960/ 1230	1170/1440/ 2010	1230/1440/ 2100	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A)	28/29/32	28/31/35	33/38/43	34/38/44	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	28/29/32	28/31/35	33/38/43	34/38/44	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	24	24	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2	4,2	4,2	4,2	4,2
Price	€	1.100,-	1.260,-	1.550,-	1.730,-	1.550,-	1.730,-	1.950,-

OUTDOOR UNIT	RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1	RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E	
Sound pressure level (low/med/high)	dB(A)	46	46	49	50	49	51	51
Sound pressure level (low/med/high)	dB(A)	48	48	50	51	50	52	53
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5	5
Pipe length (max.)	m	50	50	75	75	75	75	75
Height difference (max.)	m	30	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10	2,60	2,60	2,60
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	45	74	104	104	95	95	95
Price	€	2.200,-	2.840,-	4.300,-	4.750,-	4.210,-	4.400,-	4.980,-

You will find all the control options from page 116 onwards.

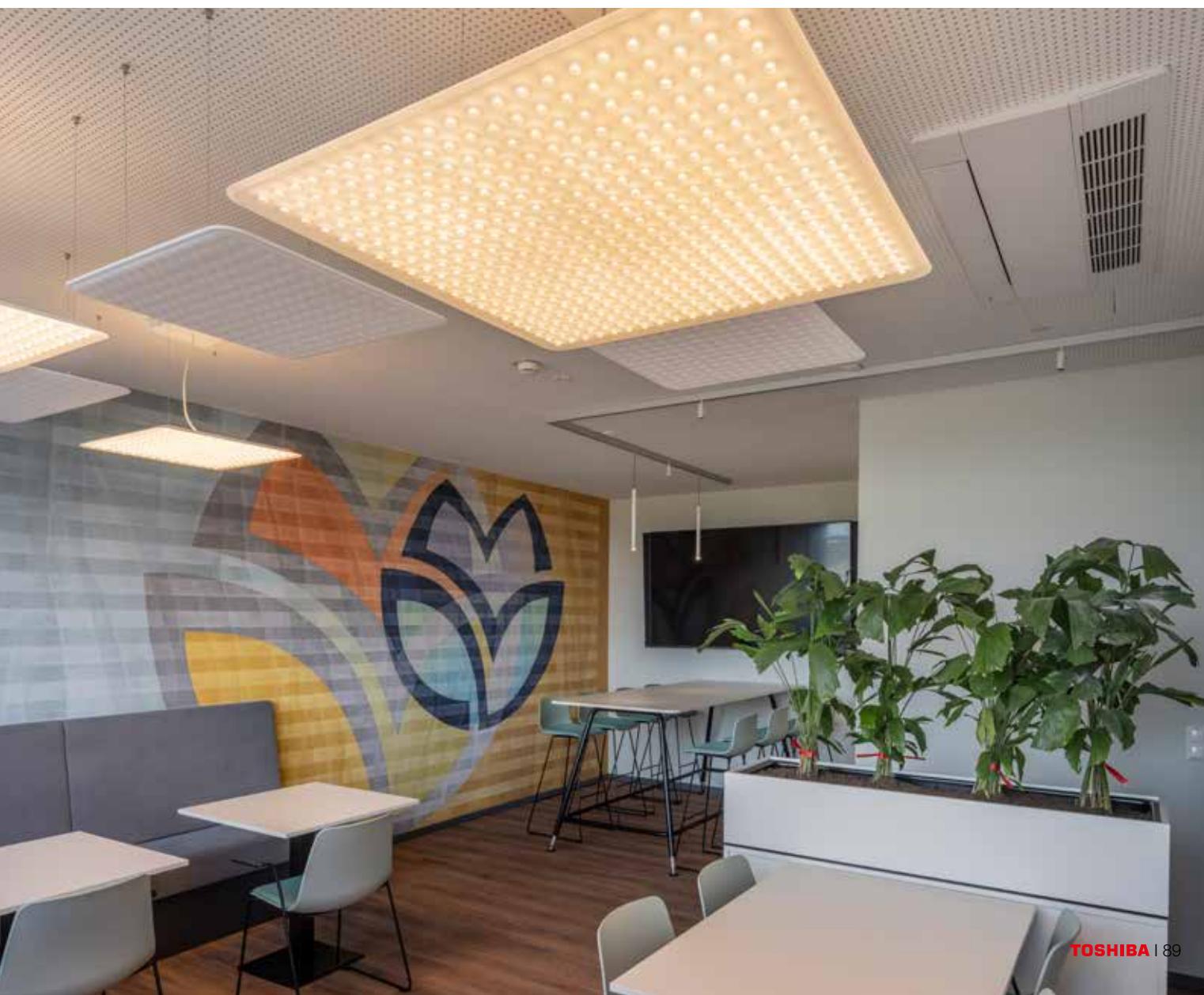
4-way standard cassette / accessories

4-way standard cassette

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U32PGP-E	Panel for wide airflow (SMMS-u)	360,-
RBC-U33P-E	FLAT Panel - pure white, for 4-way standard cassette	360,-
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31U-E	Infrared remote control + receiver kit for installation in 4-way standard cassette	325,-
RBC-AXU33UP-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, WHITE	215,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-
TCB-PLFC1UPE	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E, RBC-U33PB-E	20,-
TCB-SIR33UP-E	Occupancy sensor kit for installation in FLAT Panel	125,-
TCB-EAPC1UHP-E	PURE Plasmafilter kit for installation in FLAT Panel 4-way standard cassette	1.490,-
TCB-ADCN510UP-E	Panel adapter for RBC-U33P-E + RBC-U33PB-E	60,-

BLACK

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U33PB-E	FLAT panel - BLACK, for 4-way standard cassette	380,-
TCB-PLFC1UPE	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E, RBC-U33PB-E	20,-
RBC-AXU33UPB-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK	235,-



1-way flat cassette

- › Combined with DI NEXT outdoor unit
- › Draft-free air distribution, directed to 1 side
- › Ultra-flat 30 mm design panel with presence sensor option
- › Optional plasma filter with ionizer
- › Minimal installation height of just 150 mm
- › Integrated drain pump
- › Accessories required: remote control + panel



Digital Inverter NEXT – 1-phase – 1-way flat cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM301U1TP-E RAV-GM302ATP-E	RAV-HM401U1TP-E RAV-GM402ATP-E
Cooling capacity	kW	2,50	3,60
Cooling range (min.-max.)	kW	0,90 - 3,00	0,90 - 4,00
Power consumption (min./nom./max.)	kW	0,19/0,69/0,92	0,32/1,13/1,40
Energy efficiency EER	W/W	3,62	3,19
Energy efficiency SEER		6,20	6,00
Energy efficiency class		A++	A+
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46
Heating capacity	kW	3,40	4,00
Heating range (min.-max.)	kW	0,80 - 4,50	0,80 - 5,00
Power consumption (min./nom./max.)	kW	0,16/1,03/1,50	0,18/1,32/2,00
Energy efficiency COP	W/W	3,30	3,03
Energy efficiency SCOP		4,10	4,00
Energy efficiency class		A++	A+
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10
Set price incl. RBC-AMTU31-E + RBC-UY32P-E	€	3.375,-	3.695,-
INDOOR UNIT		RAV-HM301U1TP-E	RAV-HM401U1TP-E
Airflow	m³/h	310/- /520	290/- /540
Sound pressure level (low/med/high)	dB(A)	30/35/39	30/36/40
Sound pressure level (low/med/high)	dB(A)	30/35/39	30/36/40
Dimensions (HxWxD)	mm	150 x 990 x 450	150 x 990 x 450
Weight	kg	13	13
Panel dimensions (HxWxD)	mm	30 x 1220 x 530	30 x 1220 x 530
Panel weight	kg	4	4
Price	€	1.400,-	1.440,-
OUTDOOR UNIT		RAV-GM302ATP-E	RAV-GM402ATP-E
Sound pressure level (low/med/high)	dB(A)	46	49
Sound pressure level (low/med/high)	dB(A)	47	50
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (1/2)
Liquid pipe diameter	mm (inch)	6,4 (1/4)	6,4 (1/4)
Pipe length (min.)	m	2	2
Pipe length (max.)	m	20	20
Height difference (max.)	m	10	10
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	0,60	0,90
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290
Weight	kg	29	34
Price	€	1.270,-	1.550,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UY32P-E	Panel for sizes 3 to 12	555,-
RBC-AX33UYP-E	Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu)	80,-
TCB-EAPC1UYHP-E	Ozone air purifier for 1-way cassette (SMMSu)	300,-
TCB-SIR41UYP-E	Occupancy sensor kit for installation in 1-way cassette (SMMSu)	120,-

You will find all the control options from page 116 onwards.

Slim duct unit

- › Combined with DI NEXT outdoor unit
- › Minimal installation height of just 210 mm
- › Efficiency up to A++, integrated air filter
- › Integrated drain pump (850 mm); prepared for external fresh air supply



Digital Inverter NEXT – 1-phase – Slim duct unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM301SDTY-E RAV-GM302ATP-E	RAV-HM401SDTY-E RAV-GM402ATP-E	RAV-HM561SDTY-E RAV-GM562ATP-E	RAV-HM801SDTY-E RAV-GM802ATW-E
Cooling capacity	kW	2,50	3,60	5,00	6,70
Cooling range (min.-max.)	kW	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00
Power consumption (min./nom./max.)	kW	0,19/0,56/0,92	0,18/0,93/2,00	0,28/1,86/2,05	0,33/2,16/2,77
Energy efficiency EER	W/W	4,46	3,87	2,69	3,10
Energy efficiency SEER		6,41	6,03	5,80	5,63
Energy efficiency class		A++	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	3,40	4,00	5,30	7,70
Heating range (min.-max.)	kW	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00
Power consumption (min./nom./max.)	kW	0,17/0,86/1,40	0,17/0,97/1,70	0,22/1,50/2,40	0,31/2,24/2,66
Energy efficiency COP	W/W	3,95	4,12	3,53	3,44
Energy efficiency SCOP		4,35	4,00	4,00	4,00
Energy efficiency class		A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	16	16
Set price incl. RBC-AMTU31-E	€	2.530,-	2.840,-	3.200,-	3.850,-

INDOOR UNIT		RAV-HM301SDTY-E	RAV-HM401SDTY-E	RAV-HM561SDTY-E	RAV-HM801SDTY-E
Airflow	m³/h	420/ - /570	440/ - /600	650/ - /780	910/ - /1140
External static pressure	Pa	10/50	10/50	10/50	10/50
Sound pressure level (low/med/high)	dB(A)	26/29/32	27/30/33	29/32/34	32/34/37
Sound pressure level (low/med/high)	dB(A)	26/29/32	27/30/33	29/32/34	32/34/37
Dimensions (HxWxD)	mm	210 x 700 x 450	210 x 700 x 450	210 x 900 x 450	210 x 1100 x 450
Weight	kg	15	15	19	22
Price	€	1.110,-	1.140,-	1.200,-	1.250,-

OUTDOOR UNIT		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E
Sound pressure level (low/med/high)	dB(A)	46	49	46	50
Sound pressure level (low/med/high)	dB(A)	47	50	48	52
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Pipe length (min.)	m	2	2	5	5
Pipe length (max.)	m	20	20	30	50
Height difference (max.)	m	10	10	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	0,60	0,90	0,90	1,90
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299
Weight	kg	29	34	40	47
Price	€	1.270,-	1.550,-	1.850,-	2.450,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	460,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

Standard duct unit

- Combined with DI CLASSIC outdoor unit
- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply



Digital Inverter CLASSIC – 1-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM801BTP-E RAV-GV801ATP-E	RAV-HM1101BTP-E RAV-GV1101ATP-E	RAV-HM1401BTP-E RAV-GV1401ATP-E	RAV-HM1601BTP-E RAV-GV1601ATP-E
Cooling capacity	kW	6,70	9,50	11,50	13,00
Cooling range (min.-max.)	kW	1,50 - 8,00	3,00 - 11,20	3,00 - 12,00	3,00 - 14,00
Power consumption (min./nom./max.)	kW	- /2,30/ -	- /3,17/ -	- /4,70/ -	- /5,40/ -
Energy efficiency EER	W/W	2,91	3,00	2,45	2,41
Energy efficiency SEER		5,10	5,10	5,10	4,90
Energy efficiency class		A	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	7,00	10,00	11,90	13,50
Heating range (min.-max.)	kW	1,50 - 9,00	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	- /2,33/ -	- /3,00/ -	- /3,90/ -	- /4,00/ -
Energy efficiency COP	W/W	3,00	3,30	3,05	3,38
Energy efficiency SCOP		4,00	3,80	3,80	4,15
Energy efficiency class		A+	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	20	25	25
Set price incl. RBC-AMTU31-E	€	3.360,-	4.180,-	4.550,-	5.480,-
INDOOR UNIT		RAV-HM801BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h	750/930/1200	1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa	30/120	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	26/30/34	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	26/30/34	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	31	41	41	41
Price	€	1.410,-	1.730,-	1.790,-	1.940,-
OUTDOOR UNIT		RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E
Sound pressure level (low/med/high)	dB(A)	48	53	53	57
Sound pressure level (low/med/high)	dB(A)	51	55	60	59
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (%)	15,9 (%)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	20	30	30	30
Height difference (max.)	m	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg	39	45	57	64
Price	€	1.800,-	2.300,-	2.610,-	3.390,-

You will find all the control options from page 116 onwards.

Digital Inverter CLASSIC – 3-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT	RAV-HM1101BTP-E RAV-GV1101AT8P-E	RAV-HM1401BTP-E RAV-GV1401AT8P-E	RAV-HM1601BTP-E RAV-GV1601AT8P-E
Cooling capacity	kW	9,50	12,10
Cooling range (min.-max.)	kW	3,00 - 11,20	3,00 - 14,00
Power consumption (min./nom./max.)	kW	- / 3,06 / -	- / 4,90 / -
Energy efficiency EER	W/W	3,06	2,47
Energy efficiency SEER		5,30	5,10
Energy efficiency class		A	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46
Heating capacity	kW	10,00	12,30
Heating range (min.-max.)	kW	3,00 - 13,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW	- / 2,94 / -	- / 4,10 / -
Energy efficiency COP	W/W	3,40	3,00
Energy efficiency SCOP		3,80	3,80
Energy efficiency class		A	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16
Set price incl. RBC-AMTU31-E	€	4.540,-	6.040,-

INDOOR UNIT	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h	1260/1650/2100	1260/1650/2100
External static pressure	Pa	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40
Dimensions (HxWxD)	mm	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	41	41
Price	€	1.730,-	1.790,-
1.940,-			

OUTDOOR UNIT	RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E
Sound pressure level (low/med/high)	dB(A)	53	53
Sound pressure level (low/med/high)	dB(A)	55	60
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	30	30
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	1,70	1,90
Dimensions (HxWxD)	mm	710 x 900 x 320	710 x 900 x 320
Weight	kg	60	60
Price	€	2.660,-	2.870,-
3.950,-			

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	460,-
TCB-SF56C6BPE	Connection flange (2 x Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	160,-
TCB-SF80C6BPE	Connection flange (3 x Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	190,-
TCB-SF160C6BPE	Connection flange (4 x Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	230,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

Standard duct unit

- › Combined with DI NEXT outdoor unit
- › Low installation height of just 275 mm
- › External static pressure up to 120 Pa, integrated air filter
- › Integrated drain pump (850 mm); prepared for external fresh air supply



Digital Inverter NEXT – 1-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM561BTP-E RAV-GM562ATP-E	RAV-HM801BTP-E RAV-GM802ATW-E	RAV-HM901BTP-E RAV-GM902ATW-E	RAV-HM1101BTP-E RAV-GM1102ATW-E	RAV-HM1401BTP-E RAV-GM1402ATW-E	RAV-HM1601BTP-E RAV-GM1602ATW-E
Cooling capacity	kW	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	0,31/1,83/ 2,05	0,33/2,02/ 2,77	0,33/2,39/ 2,97	0,64/2,60/ 3,21	0,64/4,01/ 4,52	0,64/5,26/ 6,00
Energy efficiency EER	W/W	2,70	3,32	3,35	3,65	3,02	2,66
Energy efficiency SEER		5,80	6,37	6,75	6,40	6,15	5,90
Energy efficiency class		A+	A++	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	1,50 - 6,30	1,360 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW	0,31/1,62/ 2,47	0,31/2,04/ 2,66	0,31/2,15/ 2,67	0,74/2,91/ 3,42	0,74/3,55/ 4,62	0,74/4,73/ 5,64
Energy efficiency COP	W/W	3,27	3,77	4,00	3,85	3,66	3,38
Energy efficiency SCOP		4,11	4,30	4,30	4,00	3,92	4,05
Energy efficiency class		A+	A+	A+	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	16	16	16	25	25	32
Set price incl. RBC-AMTU31-E	€	3.240,-	4.010,-	4.450,-	5.180,-	5.500,-	6.340,-
INDOOR UNIT		RAV-HM561BTP-E	RAV-HM801BTP-E	RAV-HM901BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h	480/630/ 800	750/930/ 1200	1000/- / 1700	1260/1650/ 2100	1260/1650/ 2100	1260/1650/ 2100
External static pressure	Pa	30/120	30/120	30/120	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	23	31	41	41	41	41
Price	€	1.240,-	1.410,-	1.620,-	1.730,-	1.790,-	1.940,-
OUTDOOR UNIT		RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5
Pipe length (max.)	m	30	50	50	50	50	50
Height difference (max.)	m	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	40	47	47	85	85	88
Price	€	1.850,-	2.450,-	2.680,-	3.300,-	3.560,-	4.250,-

You will find all the control options from page 116 onwards.

Digital Inverter NEXT – 3-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT	RAV-HM1101BTP-E RAV-GM1102AT8W-E	RAV-HM1401BTP-E RAV-GM1402AT8W-E	RAV-HM1601BTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	9,50	12,10
Cooling range (min.-max.)	kW	3,00 - 11,20	3,00 - 13,20
Power consumption (min./nom./max.)	kW	0,68/2,56/3,17	0,68/3,94/4,48
Energy efficiency EER	W/W	3,71	3,07
Energy efficiency SEER		6,00	5,87
Energy efficiency class		A+	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46
Heating capacity	kW	11,20	13,00
Heating range (min.-max.)	kW	3,00 - 13,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW	0,78/2,87/3,38	0,78/3,50/4,58
Energy efficiency COP	W/W	3,90	3,71
Energy efficiency SCOP		3,92	3,84
Energy efficiency class		A	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16
Set price incl. RBC-AMTU31-E	€	5.660,-	6.040,-

INDOOR UNIT	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h	1260/1650/2100	1260/1650/2100
External static pressure	Pa	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40
Dimensions (HxWxD)	mm	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	41	41
Price	€	1.730,-	1.790,-

OUTDOOR UNIT	RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	53	56
Sound pressure level (low/med/high)	dB(A)	56	56
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	50	50
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	2,40	2,40
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	85	88
Price	€	3.780,-	4.100,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	460,-
TCB-SF56C6BPE	Connection flange (2 x Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	160,-
TCB-SF80C6BPE	Connection flange (3 x Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	190,-
TCB-SF160C6BPE	Connection flange (4 x Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	230,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

Standard duct unit

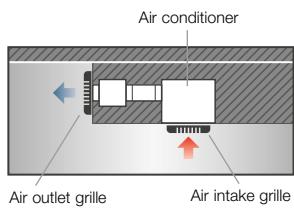
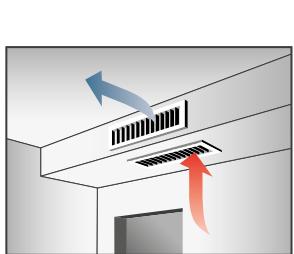
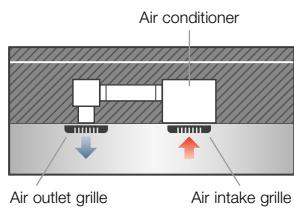
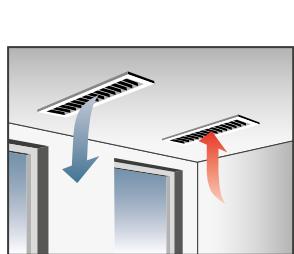
- Combined with SDI outdoor unit
- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply



Super Digital Inverter – 1-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT	RAV-HM561BTP-E RAV-GP561ATW-E	RAV-HM801BTP-E RAV-GP801ATW-E	RAV-HM1101BTP-E RAV-GP1101AT-E	RAV-HM1401BTP-E RAV-GP1401AT-E1
Cooling capacity	kW	5,00	7,10	10,00
Cooling range (min.-max.)	kW	1,50 - 5,60	1,90 - 8,00	3,10 - 12,00
Power consumption (min./nom./max.)	kW	0,31/1,83/2,05	0,25/1,63/3,20	0,65/2,40/3,63
Energy efficiency EER	W/W	2,73	4,36	4,17
Energy efficiency SEER		5,28	7,86	7,19
Energy efficiency class		A	A++	A++
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW	5,30	8,00	11,20
Heating range (min.-max.)	kW	1,50 - 6,30	1,30 - 11,30	2,60 - 13,00
Power consumption (min./nom./max.)	kW	0,31/1,62/2,47	0,20/1,85/3,55	0,41/2,73/3,38
Energy efficiency COP	W/W	3,27	4,32	4,10
Energy efficiency SCOP		4,08	4,85	4,30
Energy efficiency class		A+	A++	A+
Outdoor temperature operating range (min.-max.)	°C	-27 / +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	20	25
Set price incl. RBC-AMTU31-E	€	3.590,-	4.400,-	6.180,-
INDOOR UNIT	RAV-HM561BTP-E	RAV-HM801BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E
Airflow	m³/h	480/630/800	750/930/1200	1260/1650/2100
External static pressure	Pa	30/120	30/120	50/120
Sound pressure level (low/med/high)	dB(A)	25/29/33	26/30/34	33/36/40
Sound pressure level (low/med/high)	dB(A)	25/29/33	26/30/34	33/36/40
Dimensions (HxWxD)	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750
Weight	kg	23	31	41
Price	€	1.240,-	1.410,-	1.730,-
OUTDOOR UNIT	RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A)	46	46	49
Sound pressure level (low/med/high)	dB(A)	48	48	50
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	50	50	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104
Price	€	2.200,-	2.840,-	4.300,-

You will find all the control options from page 116 onwards.



In an existing suspended ceiling, the room air is drawn in at the bottom of the air conditioner, where it is conditioned and then blown back into the room via air ducts and a diffuser.

If there is no suspended ceiling available, almost invisible air conditioning can be achieved with a lowered ceiling on just one side of the room.

Super Digital Inverter – 3-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM1101BTP-E RAV-GP1101AT8-E	RAV-HM1401BTP-E RAV-GP1401AT8-E	RAV-HM1601BTP-E RAV-GP1601AT8-E
Cooling capacity	kW	10,00	12,50	14,00
Cooling range (min.-max.)	kW	2,50 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	0,66/2,58/4,01	0,66/3,81/4,89	0,66/4,49/6,50
Energy efficiency EER	W/W	3,88	3,28	3,12
Energy efficiency SEER		6,10	6,02	5,81
Energy efficiency class		A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	11,20	14,00	16,00
Heating range (min.-max.)	kW	2,40 - 15,60	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	0,53/2,76/4,42	0,53/3,66/5,71	0,53/4,57/6,96
Energy efficiency COP	W/W	4,06	383	3,50
Energy efficiency SCOP		4,19	3,99	3,96
Energy efficiency class		A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E	€	6.090,-	6.340,-	7.070,-

INDOOR UNIT		RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h	1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	41	41	41
Price	€	1.730,-	1.790,-	1.940,-

OUTDOOR UNIT		RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A)	49	51	51
Sound pressure level (low/med/high)	dB(A)	50	52	53
Suction gas pipe diameter	mm (inch)	15,9 (3/4)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	75	75	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,60	2,60	2,60
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	95	95	95
Price	€	4.210,-	4.400,-	4.980,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	460,-
TCB-SF56C6BPE	Connection flange (2 x Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	160,-
TCB-SF80C6BPE	Connection flange (3 x Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	190,-
TCB-SF160C6BPE	Connection flange (4 x Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	230,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 116 onwards.

High-pressure duct unit

- › Combined with DI BIG outdoor unit
- › For combining with BIG Digital Inverter
- › External static pressure adjustable up to 250 Pa



BIG Digital Inverter – 3-phase – High-pressure duct unit

INDOOR UNIT OUTDOOR UNIT		RAV-RM2241DTP-E2 RAV-GM2241AT8-E1	RAV-RM2801DTP-E2 RAV-GM2801AT8-E1
Cooling capacity	kW	19,00	22,50
Cooling range (min.-max.)	kW	4,60 - 22,40	4,60 - 27,00
Power consumption (min./nom./max.)	kW	1,27/5,86/9,05	1,27/7,98/11,87
Energy efficiency EER	W/W	3,24	2,82
Energy efficiency SEER		5,82	5,49
Energy efficiency class		n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46
Heating capacity	kW	22,40	27,00
Heating range (min.-max.)	kW	4,60 - 25,00	4,60 - 31,50
Power consumption (min./nom./max.)	kW	1,27/5,71/10,15	1,27/7,52/13,83
Energy efficiency COP	W/W	3,92	3,59
Energy efficiency SCOP		3,78	3,69
Energy efficiency class		n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 20	3x 25
Set price incl. RBC-AMTU31-E	€	12.500,-	13.490,-
INDOOR UNIT		RAV-RM2241DTP-E2	RAV-RM2801DTP-E2
Airflow	m³/h	3800	4800
External static pressure	Pa	50/150/250	50/150/250
Sound pressure level (low/med/high)	dB(A)	36/40/44	38/42/46
Sound pressure level (low/med/high)	dB(A)	36/40/44	38/42/46
Dimensions (HxWxD)	mm	448 x 1400 x 900	448 x 1400 x 900
Weight	kg	97	97
Price	€	4.960,-	5.220,-
OUTDOOR UNIT		RAV-GM2241AT8-E1	RAV-GM2801AT8-E1
Sound pressure level (low/med/high)	dB(A)	58	61
Sound pressure level (low/med/high)	dB(A)	60	63
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)
Liquid pipe diameter	mm (inch)	12,7 (1/2)	12,7 (1/2)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	60	60
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	5,0	5,0
Dimensions (HxWxD)	mm	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	142	142
Price	€	7.390,-	8.120,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	150,-
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	460,-
TCB-DP40DPE	Drain pump, RAV: 22 + 28 / VRF: 72 + 96	440,-
TCB-LK2801DP-E	Long Life Airfilter kit, for model sizes RAV: 22 + 28 / VRF: 72 + 96	155,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-

You will find all the control options from page 116 onwards.

Floor standing unit

- › Combined with DI NEXT outdoor unit
- › Perfect air circulation
- › Plug & Play with integrated comfort remote control
- › Integrated leak detection system
- › Optional accessories; remote control + cover kit



Digital Inverter NEXT – 1-phase – Floor standing unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM561FT-E RAV-GM562ATP-E	RAV-HM801FT-E RAV-GM802ATW-E	RAV-HM901FT-E RAV-GM902ATW-E	RAV-HM1101FT-E RAV-GM1102ATW-E	RAV-HM1401FT-E RAV-GM1402ATW-E	RAV-HM1601FT-E RAV-GM1602ATW-E
Cooling capacity	kW	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	0,30/1,79/ 2,00	0,37/2,23/ 2,91	0,37/2,42/ 3,02	0,60/2,71/ 3,28	0,60/4,32/ 4,62	0,60/5,632/ 6,19
Energy efficiency EER	W/W	2,79	3,01	3,30	3,50	2,80	2,63
Energy efficiency SEER		5,86	5,53	6,24	6,22	5,53	5,20
Energy efficiency class		A+	A	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW	0,22/1,72/ 2,70	0,32/2,48/ 3,17	0,32/2,32/ 3,31	0,70/3,10/ 3,79	0,70/3,95/ 5,03	0,70/5,65/ 6,16
Energy efficiency COP	W/W	3,08	3,11	3,70	3,61	3,29	2,83
Energy efficiency SCOP		4,01	4,00	4,00	3,92	3,90	3,90
Energy efficiency class		A+	A+	A+	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	16	16	16	25	25	32
Set price incl. RBC-AMSU52-E	€	4.785,-	5.530,-	5.920,-	6.675,-	7.000,-	7.745,-

INDOOR UNIT		RAV-HM561FT-E	RAV-HM801FT-E	RAV-HM901FT-E	RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1601FT-E
Airflow	m³/h	600/ - / 820	640/ - / 930	820/ - / 1330	1170/ - / 1660	1350/ - / 1760	1350/ - / 1760
Sound pressure level (low/med/high)	dB(A)	38/42/46	41/45/50	37/40/45	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A)	38/42/46	41/45/50	37/40/45	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	44	46	59	59	59	59
Price	€	2.730,-	2.875,-	3.035,-	3.170,-	3.235,-	3.290,-

OUTDOOR UNIT		RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5
Pipe length (max.)	m	30	50	50	50	50	50
Height difference (max.)	m	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	40	47	47	85	85	88
Price	€	1.850,-	2.450,-	2.680,-	3.300,-	3.560,-	4.250,-

You will find all the control options from page 116 onwards.

Digital Inverter NEXT – 3-phase – Floor standing unit

INDOOR UNIT OUTDOOR UNIT	RAV-HM1101FT-E RAV-GM1102AT8W-E	RAV-HM1401FT-E RAV-GM1402AT8W-E	RAV-HM1601FT-E RAV-GM1602AT8W-E
Cooling capacity	kW	9,50	12,10
Cooling range (min.-max.)	kW	3,00 - 11,20	3,00 - 13,20
Power consumption (min./nom./max.)	kW	0,64/2,67/3,24	0,64/4,24/4,58
Energy efficiency EER	W/W	3,55	2,85
Energy efficiency SEER		5,88	5,35
Energy efficiency class		A+	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46
Heating capacity	kW	11,20	13,00
Heating range (min.-max.)	kW	3,00 - 15,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW	0,74/3,07/3,75	0,74/3,89/4,99
Energy efficiency COP	W/W	3,64	3,34
Energy efficiency SCOP		3,92	3,90
Energy efficiency class		A	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16
Set price incl. RBC-AMSU52-E	€	7.155,-	7.540,-
8.275,-			

INDOOR UNIT	RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1601FT-E
Airflow	m³/h	1170/- /1660	1350/- /1760
Sound pressure level (low/med/high)	dB(A)	41/46/51	45/48/53
Sound pressure level (low/med/high)	dB(A)	41/46/51	45/48/53
Dimensions (HxWxD)	mm	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	59	59
Price	€	3.170,-	3.235,-
			3.290,-

OUTDOOR UNIT	RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	53	56
Sound pressure level (low/med/high)	dB(A)	56	56
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	50	50
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32
Refrigerant charge	kg	2,40	2,40
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	85	85
Price	€	3.780,-	4.100,-
			4.780,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-CKC1F-E	Cover kit to close the remote control slot	70,-

You will find all the control options from page 116 onwards.

Floor standing unit

- › Combined with SDI outdoor unit
- › Perfect air circulation
- › Plug & Play with integrated comfort remote control
- › Integrated leak detection system
- › Optional accessories; remote control + cover kit



Super Digital Inverter – Floor standing unit

		1-phase				3-phase		
INDOOR UNIT	OUTDOOR UNIT	RAV-HM561FT-E RAV-GP561ATW-E	RAV-HM801FT-E RAV-GP801ATW-E	RAV-HM1101FT-E RAV-GP1101AT-E	RAV-HM1401FT-E RAV-GP1401AT-E1	RAV-HM1101FT-E RAV-GP1101AT8-E	RAV-HM1401FT-E RAV-GP1401AT8-E	RAV-HM1601FT-E RAV-GP1601AT8-E
Cooling capacity	kW	5,00	7,10	10,00	12,30	10,00	12,50	14,00
Cooling range (min.-max.)	kW	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00	2,60 - 12,00	1,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	0,19/1,42/ 2,00	0,26/2,04/ 3,32	0,60/2,39/ 3,65	0,60/3,78/ 4,07	0,66/2,46/ 4,10	0,66/3,61/ 4,91	0,66/4,39/ 6,50
Energy efficiency EER	W/W	3,51	3,48	4,18	3,25	4,07	3,46	3,19
Energy efficiency SEER		5,87	6,43	6,99	6,49	6,14	6,10	5,88
Energy efficiency class		A+	A++	A++	n/a	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	5,60	8,00	11,20	13,20	11,20	14,00	16,00
Heating range (min.-max.)	kW	0,90 - 7,00	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50	2,40 - 14,00	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	0,16/1,65/ 2,80	0,20/2,37/ 3,75	0,42/2,76/ 3,85	0,42/4,40/ 4,61	0,53/2,77/ 4,80	0,53/3,81/ 5,95	0,53/4,83/ 6,96
Energy efficiency COP	W/W	3,39	3,38	4,06	3,00	4,04	3,67	3,31
Energy efficiency SCOP		4,21	4,43	4,40	4,38	4,02	4,02	3,98
Energy efficiency class		A+	A+	A+	n/a	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-27 / +15	-27 / +15	-27 / +15	-27 / +15	-20 / +15	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Recommended fusing	A	16	20	25	25	3x 16	3x 16	3x 16
Set price incl. RBC-AMSU52-E	€	5.135,-	5.920,-	7.675,-	8.190,-	7.585,-	7.840,-	8.475,-
INDOOR UNIT		RAV-HM561FT-E	RAV-HM801FT-E	RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1601FT-E
Airflow	m³/h	600/- / 820	640/- / 930	1170/- / 1660	1350/- / 1760	1170/- / 1660	1350/- / 1760	1350/- / 1760
Sound pressure level (low/med/high)	dB(A)	38/42/46	41/45/50	41/46/51	45/48/53	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A)	38/42/46	41/45/50	41/46/51	45/48/53	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	44	46	59	59	59	59	59
Price	€	2.730,-	2.875,-	3.170,-	3.235,-	3.170,-	3.235,-	3.290,-
OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1	RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A)	46	46	49	50	49	51	51
Sound pressure level (low/med/high)	dB(A)	48	48	50	51	50	52	53
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5	5
Pipe length (max.)	m	50	50	75	75	75	75	75
Height difference (max.)	m	30	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10	2,60	2,60	2,60
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	45	74	104	104	95	95	95
Price	€	2.200,-	2.840,-	4.300,-	4.750,-	4.210,-	4.400,-	4.980,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-CKC1F-E	Cover kit to close the remote control slot	70,-

You will find all the control options from page 116 onwards.

Direct expansion kits

INTEGRATION OF 3RD PARTY HEAT EXCHANGERS



The direct expansion (DX) kit allows heat exchangers from other manufacturers to be incorporated into a TOSHIBA system. It is ideal for use with air handling units or air curtains. The wiring is ready to connect. An appropriate valve kit is needed for use.

DX-kit exhaust air controlled RAV-DXC010

RAV DX interface for connecting a TOSHIBA heat pump to an external DX-coil, consisting of a control cabinet and all the necessary sensors.

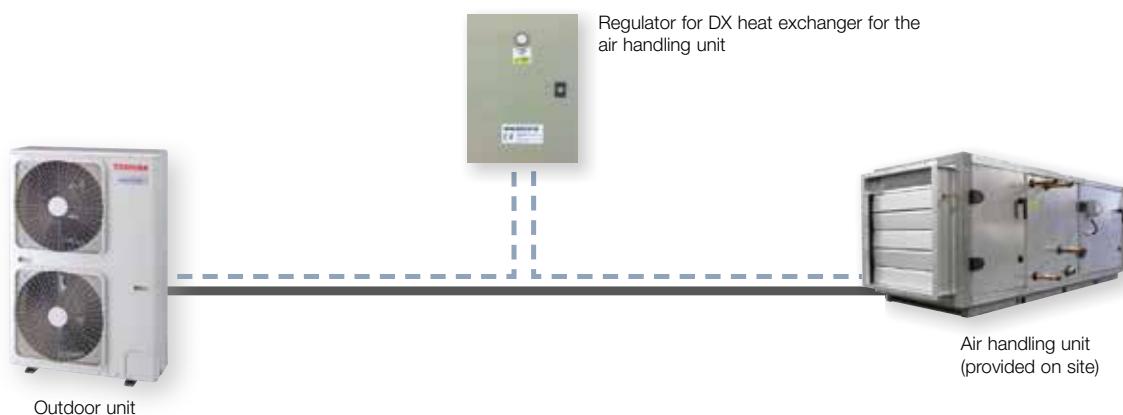
Compatible with outdoor units from the following product lines:

- Super Digital Inverter
- Digital Inverter BIG



Supply air temperature operating limits:

- Cooling mode: "Air On" temp.: Min. 15°C WB (18°C DB) / Max. 24°C WB (32°C DB)
- Heating mode: "Air On" temp.: Min. 15°C DB / Max. 28°C DB



DX-kit 0 – 10 V capacity control RBC-DXC031



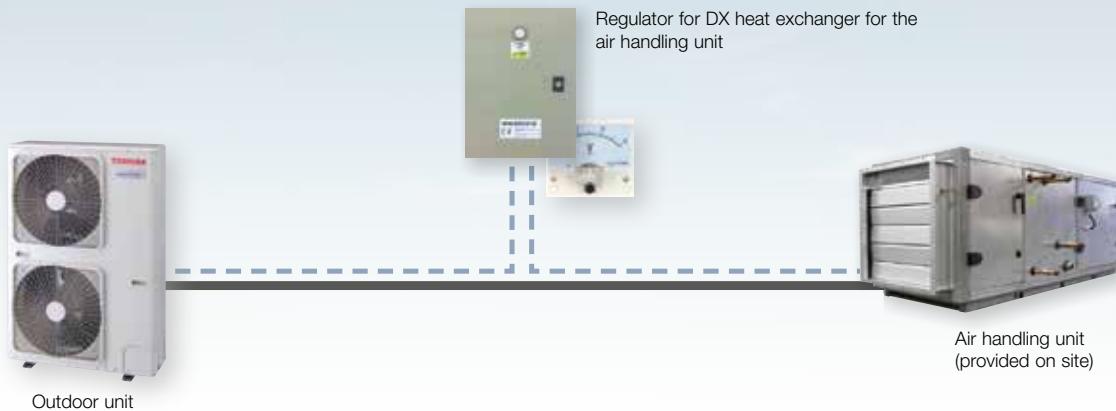
The RAV/VRF DX interface enables capacity control of a TOSHIBA heat pump with external DX-coil by means of a 0 – 10 V signal from the existing building management system.

Compatible with outdoor units from the following product lines:

- › Super Digital Inverter
- › Digital Inverter BIG
- › VRF – only with 8 & 10 HP

Functions

- › The controller can be configured for RAV or VRF using DIP switches
- › RAV systems use the pulse modulation valve installed in the outdoor unit; no further accessories are needed
- › No TA sensor is needed on the coil
- › Analog input for capacity demand (0 – 10 V signal)
- › Digital inputs for ON / OFF, operating mode, disabling the remote control and digital outputs for error and alarm messages, defrost, fan motor, etc.



Performance data for DX-kits

- › Direct expansion kit with PCB, transformer, and terminal strips
- › Remote control required
- › Can be used together with air handling units and air curtains
- › Available in two different versions for exhaust air temperature control or 0 – 10 V control
- Can be combined with SDI and DI BIG outdoor units



MODEL	REFRIGERANT	COOLING CAPACITY MIN.-MAX. (kW)	HEATING CAPACITY MIN.-MAX. (kW)	AIRFLOW STANDARD (m³/h)	VOLUME DX-COIL (dm³)	
SDI	RAV-GP561ATW-E	R32	1.20 – 5.60	0.90 – 7.40	900	0.8 – 1.1
SDI	RAV-GP801ATW-E	R32	1.90 – 8.00	1.30 – 11.30	1320	1.0 – 1.4
SDI	RAV-GP1101AT/AT8-E	R32	3.10 – 12.00	2.60 – 13.00	1600	1.5 – 2.1
SDI	RAV-GP1401AT/E1/AT8-E	R32	3.10 – 14.00	2.60 – 16.50	2100	1.7 – 2.7
SDI	RAV-GP1601AT8-E	R32	2.60 – 16.00	2.40 – 19.00	2720	1.7 – 3.2

DI: Digital Inverter SDI: Super Digital Inverter

TYPE	Power supply	Dimensions (HxWxD)	Weight	PRICE €
RAV-DXC010	V/Ph+N/Hz 220-240/1+N/50	mm 400 x 300 x 150	kg 8	1.410,-
RBC-DXC031	220-240/1+N/50	400 x 300 x 150	8	1.505,-

Supply air temperature operating limits

Cooling mode: "Air On" temp.: Min. 15°C WB (18°C DB) / Max. 24°C WB (32°C DB) Heating mode: "Air On" temp.: Min. 15°C DB / Max. 28°C DB
The pipe volume of the DX heat exchanger should be calculated as described in the installation manual; a tolerance of +/- 10% is permissible.



Direct expansion kit NEXT

Integrate 3rd party heat exchangers



The DX-kit NEXT is an efficient direct expansion kit consisting of a control cabinet and sensors. It is ideal for use with air handling units and air curtains. The controller can be flexibly configured for exhaust air temperature or 0 – 10 V capacity control.

Compatible with outdoor units from the following product lines:

- › Digital Inverter
- › Digital Inverter NEXT
- › Super Digital Inverter
- › Digital Inverter BIG

Data:

- › Cooling capacity: 3.0 – 27.0 kW
- › Heating capacity: 4.5 – 31.5 kW
- › Airflow: 450 - 5040 m³/h

TYPE	Power supply	Dimensions (HxWxD)	Weight	PRICE €
TCB-IFDLR01UP-E	V/Ph+N/Hz 220-240/1+N/50	mm 420 x 330 x 122	kg 4,1	1.180,-

RAV split solutions for one temperature zone

- › Cost-effective multi-solutions for one temperature zone
- › Twin, triple, and double twin split combinations with up to four indoor units
- › The indoor unit models must be identical for multi solutions (same type and capacity)
- › Not for Digital Inverter CLASSIC

Branch assembly kits for multi installations

DIGITAL INVERTER BIG

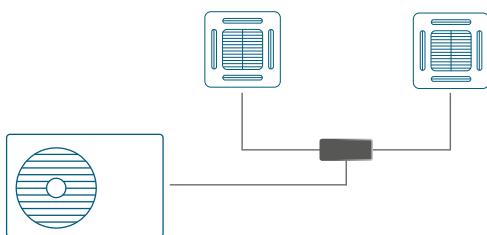
ACCESSORIES	DESCRIPTION	PRICE €
RBC-TWP101E	Branch for twin kit - 22.40 and 28.00 kW	315,-
RBC-TRP100E	Triple kit - DI BIG: 22.40 and 28.00 kW / DI + SDI: 16.00 kW	430,-
RBC-DTWP101E	Branch for double twin kit - 22.40 and 28.00 kW	435,-

DIGITAL INVERTER / SUPER DIGITAL INVERTER

ACCESSORIES	DESCRIPTION	PRICE €
RBC-TWP30E2	Branch for twin kit - up to 11.20 kW	145,-
RBC-TWP50E2	Branch for twin kit - 14.00 kW	150,-
RBC-TRP100E	Triple kit - DI BIG: 22.40 and 28.00 kW / DI + SDI: 16.00 kW	430,-

TWIN

Digital / Super Digital Inverter / Digital Inverter NEXT

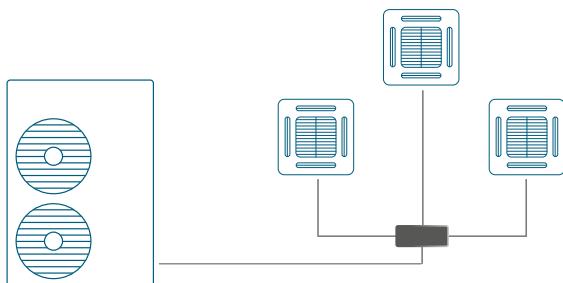


Combination options (model)*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
11.2	5.6 + 5.6	RBC-TWP30E2
14.0	8.0 + 8.0	RBC-TWP50E2

TRIPLE

Digital / Super Digital Inverter / Digital Inverter NEXT

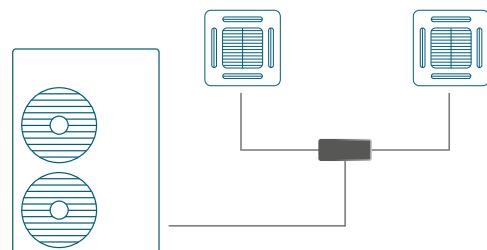


Combination options (model)*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
16	5.6 + 5.6 + 5.6	RBC-TRP100E

TWIN

Digital Inverter BIG

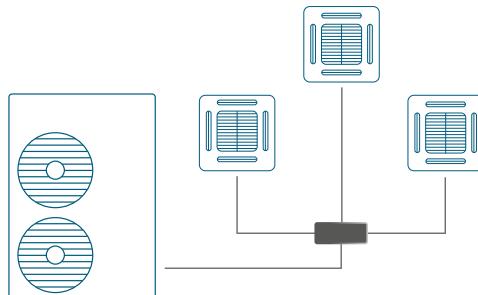


Combination options (model)*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	11.2 + 11.2	RBC-TWP101E
28.0	14.0 + 14.0	RBC-TWP101E

TRIPLE

Digital Inverter BIG

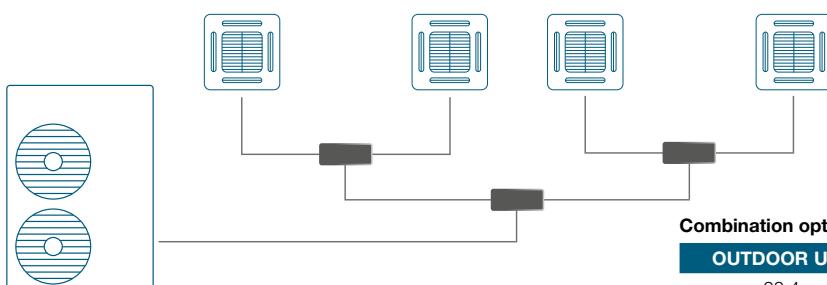


Combination options (model)*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	8.0 + 8.0 + 8.0	RBC-TRP100E
28.0	8.0 + 8.0 + 8.0	RBC-TRP100E

DOUBLE TWIN

Digital Inverter BIG



Combination options (model)*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	5.6 + 5.6 + 5.6 + 5.6	RBC-DTWP101E
28.0	8.0 + 8.0 + 8.0 + 8.0	RBC-DTWP101E

These are extracts – refer to the appropriate data sheets for the full combinations, data, and values.

Air curtain

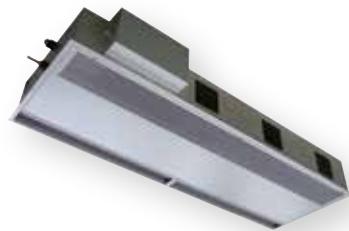
- Heating operation or efficient airlock for entrance areas



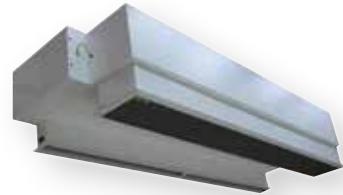
Available upon request



Free-hanging unit



Cassette unit



Built-in unit



Digital Inverter CLASSIC

- › Robust CLASSIC Line with compact & lightweight chassis
- › Durable and efficient
- › Operating range from -15°C to +46°C
- › Pipe lengths up to 30 m



Digital Inverter CLASSIC – 1-phase

OUTDOOR UNIT		RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E
Cooling capacity	kW	5,00	6,70	9,50	11,50	13,00
Heating capacity	kW	5,30	7,00	10,00	11,90	13,50
Sound pressure level (low/med/high)	dB(A)	46	48	53	53	57
Sound pressure level (low/med/high)	dB(A)	48	51	55	60	59
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5
Pipe length (max.)	m	20	30	30	30	30
Height difference (max.)	m	20	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	16	20	25	25
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg	36	39	45	57	64
Price	€	1.390,-	1.800,-	2.300,-	2.610,-	3.390,-

Digital Inverter CLASSIC – 3-phase

OUTDOOR UNIT		RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E
Cooling capacity	kW	9,50	12,10	13,00
Heating capacity	kW	10,00	12,30	13,50
Sound pressure level (low/med/high)	dB(A)	53	53	57
Sound pressure level (low/med/high)	dB(A)	55	60	59
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	30	30	30
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	1,70	1,90	2,20
Dimensions (HxWxD)	mm	710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg	60	60	63
Price	€	2.660,-	2.870,-	3.950,-

Digital Inverter NEXT

- › NEXT level: compact – durable – efficient
- › Easy install features
- › Easy commissioning functions
- › 3-level silent setting



Digital Inverter NEXT – 1-phase

OUTDOOR UNIT		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E	
Cooling capacity	kW		2,50	3,60	5,00	6,70	8,00	9,50	12,10	14,00
Heating capacity	kW		3,40	4,00	5,30	7,70	8,60	11,20	13,00	16,00
Sound pressure level (low/med/high)	dB(A)		46	49	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)		47	50	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (1/2)	12,7 (1/2)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)	6,3 (1/4)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	2	2	5	5	5	5	5	5	5
Pipe length (max.)	m	20	20	30	50	50	50	50	50	50
Height difference (max.)	m	10	10	30	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	16	16	16	25	25	32	
Refrigerant		R32	R32	R32	R32	R32	R32	R32	R32	
Refrigerant charge	kg	0,60	0,90	0,90	1,30	2,00	2,10	2,10	2,40	
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370	
Weight	kg	33	39	40	47	47	85	85	88	
Price	€	1.270,-	1.550,-	1.850,-	2.450,-	2.680,-	3.300,-	3.560,-	4.250,-	

Digital Inverter – 3-phase

OUTDOOR UNIT		RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E	
Cooling capacity	kW		9,50	12,10	14,00
Heating capacity	kW		11,20	13,00	16,00
Sound pressure level (low/med/high)	dB(A)		53	56	57
Sound pressure level (low/med/high)	dB(A)		56	56	56
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	
Pipe length (min.)	m	5	5	5	
Pipe length (max.)	m	50	50	50	
Height difference (max.)	m	30	30	30	
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	
Recommended fusing	A	3x 16	3x 16	3x 16	
Refrigerant		R32	R32	R32	
Refrigerant charge	kg	2,10	2,10	2,40	
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370	
Weight	kg	85	85	88	
Price	€	3.780,-	4.100,-	4.780,-	

Super Digital Inverter

- › Compact – durable – highly efficient
- › Operating range from -27°C to +52°C
- › Pipe lengths up to 75 m



Super Digital Inverter – 1-phase

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Cooling capacity	kW	5,00	7,10	10,00	12,50
Heating capacity	kW	5,60	8,00	11,20	14,00
Sound pressure level (low/med/high)	dB(A)	46	46	49	50
Sound pressure level (low/med/high)	dB(A)	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	3
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	20	25	25
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,90	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
Price	€	2.200,-	2.840,-	4.300,-	4.750,-

Super Digital Inverter – 3-phase

OUTDOOR UNIT		RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Cooling capacity	kW	10,00	12,50	14,00
Heating capacity	kW	11,20	14,00	16,00
Sound pressure level (low/med/high)	dB(A)	49	51	51
Sound pressure level (low/med/high)	dB(A)	50	52	53
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	75	75	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,60	2,60	2,60
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	95	95	95
Price	€	4.210,-	4.400,-	4.980,-

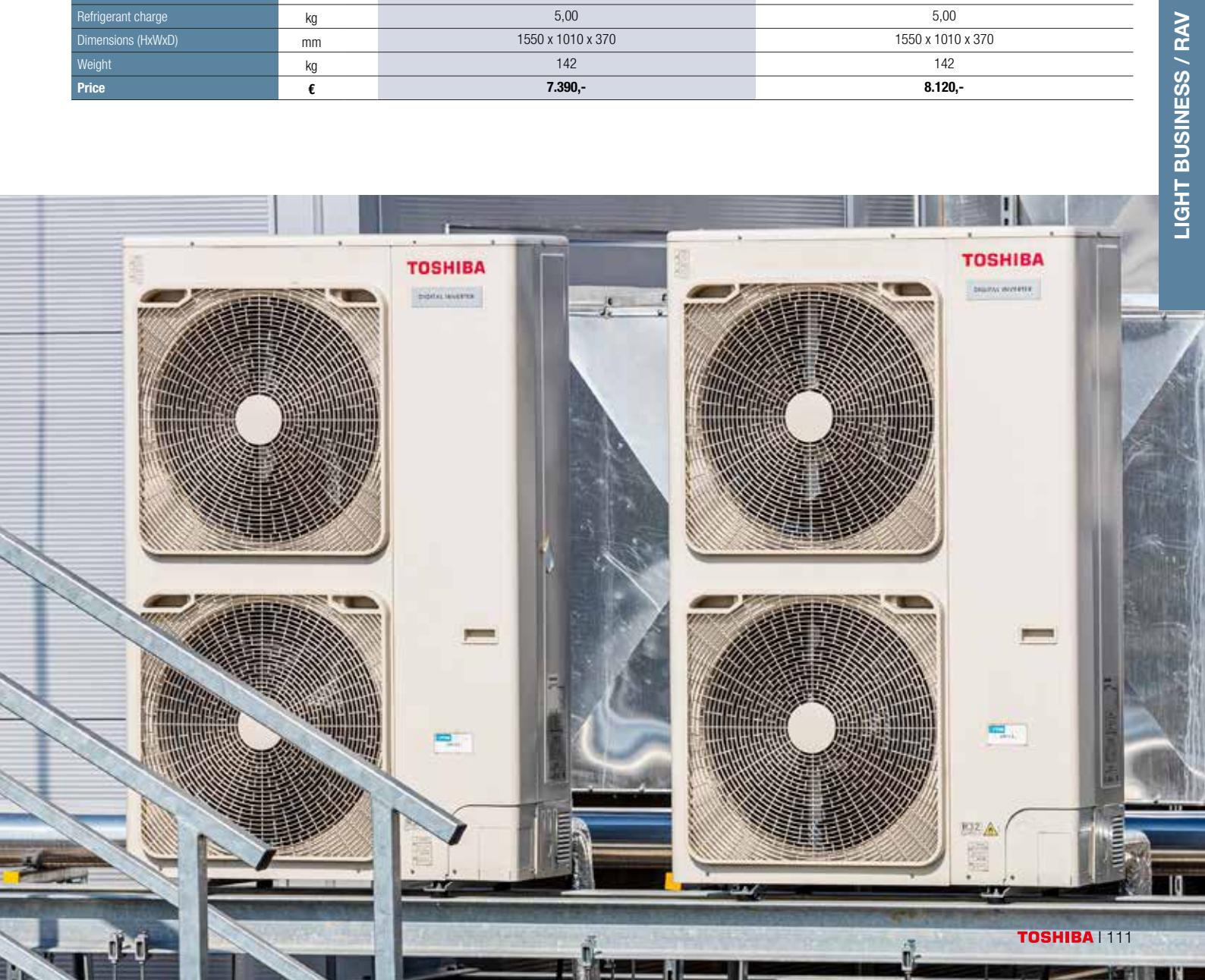
Digital Inverter BIG

- › Robust 3-phase endurance runner
- › Operating range from -27°C to +52°C
- › Pipe lengths up to 100 m



Digital Inverter BIG – 3-phase

OUTDOOR UNIT		RAV-GM2241AT8-E1	RAV-GM2801AT8-E1
Cooling capacity	kW	19,00	22,50
Heating capacity	kW	22,40	27,00
Sound pressure level (low/med/high)	dB(A)	58	61
Sound pressure level (low/med/high)	dB(A)	60	63
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)
Liquid pipe diameter	mm (inch)	12,7 (1/2)	12,7 (1/2)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	100	100
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 20	3x 25
Refrigerant		R32	R32
Refrigerant charge	kg	5,00	5,00
Dimensions (HxWxD)	mm	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	142	142
Price	€	7.390,-	8.120,-



Outdoor units quick view

TYPE	Pipe length (min.)	Pipe length (max.)	Pre-charged up to	Height difference (max.)	Suction gas pipe diameter	Liquid pipe diameter	Refrigerant charge	Added refrigerant charge
	m	m	m	m	mm (inch)	mm (inch)	kg	g/m
DIGITAL INVERTER CLASSIC 1-phase								
RAV-GV561ATP-E	5	20	20	20	12,7 (½)	6,3 (¼)	0,90	20
RAV-GV801ATP-E	5	30	20	20	15,9 (5/8)	9,5 (3/8)	1,40	35
RAV-GV1101ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,70	35
RAV-GV1401ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GV1601ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	2,20	35
DIGITAL INVERTER CLASSIC 3-phase								
RAV-GV1101AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,70	35
RAV-GV1401AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GV1601AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	2,20	35
DIGITAL INVERTER NEXT 1-phase								
RAV-GM302ATP-E	2	20	15	10	9,5 (3/8)	6,3 (¼)	0,60	20
RAV-GM402ATP-E	2	20	15	10	12,7 (½)	6,3 (¼)	0,90	20
RAV-GM562ATP-E	5	30	20	30	12,7 (½)	6,3 (¼)	0,90	20
RAV-GM802ATW-E	5	50	20	30	15,9 (5/8)	9,5 (3/8)	1,30	35
RAV-GM902ATW-E	5	50	20	30	15,9 (5/8)	9,5 (3/8)	2,00	35
RAV-GM1102ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1402ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1602ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
DIGITAL INVERTER NEXT 3-phase								
RAV-GM1102AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1402AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1602AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
SUPER DIGITAL INVERTER 1-phase								
RAV-GP561ATW-E	5	50	20	30	12,7 (½)	6,3 (¼)	1,35	20
RAV-GP801ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GP1101AT-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	3,10	35
RAV-GP1401AT-E1	3	75	30	30	15,9 (5/8)	9,5 (3/8)	3,10	35
SUPER DIGITAL INVERTER 3-phase								
RAV-GP1101AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
RAV-GP1401AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
RAV-GP1601AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
DIGITAL INVERTER BIG 3 phase								
RAV-GM2241AT8-E1	5	100	30	30	28,6 (1 1/8)	12,7 (½)	5,00	40
RAV-GM2801AT8-E1	5	100	30	30	28,6 (1 1/8)	12,7 (½)	5,00	80

TOSHIBA



LIGHT BUSINESS / RAV

TOSHIBA | 113

Current Consumption + Fusing

TYPE	Current consumption (max.)	Current consumption (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW *	kW *	A	V/Ph+N/Hz		
DIGITAL INVERTER CLASSIC 1-phase								
RAV-GV561ATP-E	15,00	16	- /1,60/-	- /1,40/-	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV801ATP-E	15,00	16	- /2,30/-	- /2,33/-	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1101ATP-E	-	-	- /3,17/-	- /3,00/-	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1401ATP-E	-	-	- /4,70/-	- /3,90/-	25	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1601ATP-E	-	-	- /5,40/-	- /4,00/-	25	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
DIGITAL INVERTER CLASSIC 3-phase								
RAV-GV1101AT8P-E	-	-	- /3,06/-	- /2,94/-	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GV1401AT8P-E	-	-	- /4,90/-	- /4,10/-	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GV1601AT8P-E	-	-	- /5,40/-	- /4,00/-	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
DIGITAL INVERTER NEXT 1-phase								
RAV-GM302ATP-E	7,90	2,7	0,19/0,69/0,92	0,16/1,03/1,50	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM402ATP-E	9,20	4,4	0,32/1,13/1,40	0,18/1,32/2,00	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM562ATP-E	15,00	8,5	0,30/1,79/2,00	0,22/1,72/2,70	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM802ATW-E	16,00	-	0,37/2,23/2,91	0,32/2,48/3,17	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM902ATW-E	16,00	-	0,37/2,42/3,02	0,32/2,32/3,31	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM1102ATW-E	22,50	13,8	0,60/2,71/3,28	0,70/3,10/3,79	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1402ATW-E	23,00	20,5	0,60/4,32/4,62	0,70/3,95/5,03	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1602ATW-E	29,20	-	0,60/5,632/6,19	0,70/5,65/6,16	32	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
DIGITAL INVERTER NEXT 3-phase								
RAV-GM1102AT8W-E	3x 11,60	3x 4,6	0,64/2,67/3,24	0,74/3,07/3,75	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GM1402AT8W-E	3x 13,40	3x 6,80	0,64/4,24/4,58	0,74/3,89/4,99	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GM1602AT8W-E	3x 14,60	-	0,64/5,22/6,09	0,74/5,65/7,55	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
SUPER DIGITAL INVERTER 1-phase								
RAV-GP561ATW-E	13,10	7,1	0,19/1,42/2,00	0,16/1,65/2,80	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GP801ATW-E	20,80	7,6	0,26/2,04/3,32	0,20/2,37/3,75	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GP1101AT-E	22,80	8,3	0,56/1,90/2,80	0,41/2,18/2,98	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GP1401AT-E1	22,80	13,3	0,59/2,91/3,40	0,41/3,04/4,18	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
SUPER DIGITAL INVERTER 3-phase								
RAV-GP1101AT8-E	3x 16,40	3x 4,70	0,66/2,32/3,60	0,53/2,41/4,30	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GP1401AT8-E	3x 16,40	3x 6,50	0,66/3,42/3,60	0,53/3,41/5,50	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GP1601AT8-E	3x 16,40	3x 7,50	0,66/4,34/5,70	0,53/4,28/6,51	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
DIGITAL INVERTER BIG 3 phase								
RAV-GM2241AT8-E1	3x 18,00	9,1	1,27/5,86/9,05	1,27/5,71/10,15	3x 20	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GM2801AT8-E1	3x 23,00	12,5	1,27/7,98/11,87	1,27/7,52/13,83	3x 25	380-415/3+N/50	H07RN-F 5G4,5	H07RN-F 4G1,5

Sound Power Level / Sound Pressure

TYPE	Sound power level	Sound power level	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Sound pressure level (night operation, @ 1m)
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
DIGITAL INVERTER CLASSIC 1-phase					
RAV-GV561ATP-E	63	65	46	48	-
RAV-GV801ATP-E	65	68	48	51	-
RAV-GV1101ATP-E	70	72	53	55	-
RAV-GV1401ATP-E	70	77	53	60	-
RAV-GV1601ATP-E	74	76	57	59	-
DIGITAL INVERTER CLASSIC 3-phase					
RAV-GV1101AT8P-E	70	72	53	55	-
RAV-GV1401AT8P-E	70	77	53	60	-
RAV-GV1601AT8P-E	74	76	57	59	-
DIGITAL INVERTER NEXT 1-phase					
RAV-GM302ATP-E	61	62	46	47	43/44
RAV-GM402ATP-E	64	65	49	50	46/47
RAV-GM562ATP-E	63	65	46	48	41/43
RAV-GM802ATW-E	68	71	50	52	-
RAV-GM902ATW-E	68	71	52	55	-
RAV-GM1102ATW-E	70	73	53	56	-
RAV-GM1402ATW-E	73	74	56	56	-
RAV-GM1602ATW-E	74	74	57	56	-
DIGITAL INVERTER NEXT 3-phase					
RAV-GM1102AT8W-E	70	73	53	56	-
RAV-GM1402AT8W-E	73	74	56	56	-
RAV-GM1602AT8W-E	74	74	57	56	-
SUPER DIGITAL INVERTER 1-phase					
RAV-GP561ATW-E	63	65	46	48	41/43
RAV-GP801ATW-E	63	65	46	48	41/43
RAV-GP1101AT-E	66	67	49	50	44/45
RAV-GP1401AT-E1	67	68	50	51	-
SUPER DIGITAL INVERTER 3-phase					
RAV-GP1101AT8-E	66	67	49	50	45
RAV-GP1401AT8-E	68	69	51	52	45
RAV-GP1601AT8-E	68	70	51	53	45
DIGITAL INVERTER BIG 3-phase					
RAV-GM2241AT8-E1	76	76	58	60	53/55
RAV-GM2801AT8-E1	78	80	61	63	56/58

Sound pressure night operation: with noise reduction module, cable set, DIP switch, or remote control.

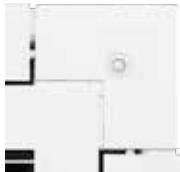
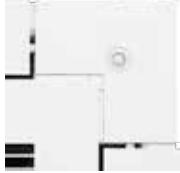
See external control options.

Local wired remote controls

TYPE / DESCRIPTION	PRICE €	
	RBC-AS41E Simplified wired remote control • To control all main functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes cannot be set	150,-
	RBC-AMTU31-E Standard Wired Remote Control • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • 168 hour On/Off timer • DN codes can be set	150,-
	RBC-AMS41E Wired remote control with integrated weekly timer • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Weekly timer integrated, 8 events/day, 6 parameters/event can be programmed • DN codes can be set	160,-
	RBC-ASCU11-E Compact wired remote control • Slimline version of standard wired remote control • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • Off timer • DN codes can be set	100,-
	RBC-AMSU52-E Wired comfort remote control PLUS • Design & function update for the wired comfort remote control • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	205,-
	RBC-AWSU52-E Wired comfort remote control PLUS BT • Design & function update for the wired comfort remote control • With BLUETOOTH support for smartphones • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	225,-
	RBC-MTSC1 Local touch lite remote control • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Controlled via 4.5" color touch display • Personalized graphics for screen & logo via upload (480x272) • DN codes can be set • Not a stock item - lead time on request	540,-
	TCB-TC41U-E Remote Temperature Sensor • Compatible with all indoor units that have an A/B remote control bus • When exact temperature measurement is not possible using the sensor in the indoor unit or in the wired remote control. • Takes priority over the unit and remote control sensor	135,-

Local infrared remote controls

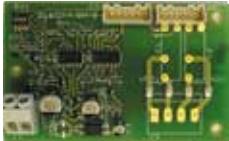
TYPE / DESCRIPTION	PRICE €	
	RBC-AXU31-E Infrared remote control with external receiver kit for all indoor units • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	460,-
	RBC-AXU31C-E Infrared remote control + receiver kit for installation in ceiling unit • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	355,-
	RBC-AXU31UW-E Infrared remote control + receiver kit for installation in 2-way cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units. • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	375,-
	RBC-AX33UYP-E Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu) • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	80,-
	RBC-AXU31UM-E Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu) • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	180,-
	RBC-AXU41U-E Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	315,-
	RBC-AXU33UP-E Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, WHITE	215,-
	RBC-AXU33UPB-E Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK	235,-
	RBC-AXU31U-E Infrared remote control + receiver kit for installation in 4-way standard cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	325,-

TYPE / DESCRIPTION	PRICE €
	130,-
TCB-SIR41UM-E Occupancy sensor kit for installation in 60x60 slim cassette	
<ul style="list-style-type: none">• Automatic motion detection in room• If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode• Requires RBC-AMSU52-E wired remote control• Required for every cassette in the group in the case of group control	
	130,-
TCB-SIR41U-E Occupancy sensor kit for installation in smart cassette	
<ul style="list-style-type: none">• Automatic motion detection in room• If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode• Requires RBC-AMSU52-E wired remote control• Required for every cassette in the group in the case of group control	
	125,-
TCB-SIR33UP-E Occupancy sensor kit for installation in FLAT Panel	

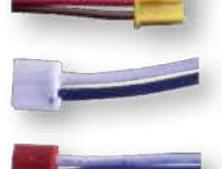
Mobile / APP / KNX® control options

TYPE / DESCRIPTION	PRICE €
 <p>AP-IR-WIFI-5 WiFi module to control all functions of an indoor unit using an app on a cell phone</p> <ul style="list-style-type: none"> • Temperature and humidity alarm configurable • Compatible with all indoor units that have a standard infrared remote control • WLAN and internet access required • Free app for iOS or Android • Not a stock item - lead time on request • for cassette + duct unit only 	350,-
 <p>TO-RC-KNX-1i Module for controlling all the functions of an indoor unit via the KNX® Bus.</p> <ul style="list-style-type: none"> • Compatible with all indoor units that have an A/B remote control bus • KNX® bus system required 	580,-
 <p>BMS-IWF0010UCP-E WiFi 1:1 interface for mobile control via smartphone or tablet</p> <ul style="list-style-type: none"> • WiFi 1:1 interface for mobile control via smartphone or tablet • Compatible with all indoor units that have an A/B remote control bus • Controls all main functions of an indoor unit or a group of up to 16 indoor units • Energy monitoring for RAV systems • Read out of error codes possible • Internet/intranet access required • Free app for iOS (from 9.0) or Android (from 5.0) 	180,-

External control options

TYPE / DESCRIPTION	PRICE €
 TCB-IFCB5-PE External on/off PCB, window contact module <ul style="list-style-type: none">• Potential-free contact for on/off and window contact input.• Remote ON/OFF function	75,-
TCB-PX100-PE Casing for outdoor installation of window contact module for high-wall units	50,-
TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	135,-
TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	135,-
 TCB-PCUC2E Control board for external control, alarms and messages <ul style="list-style-type: none">• Connection to CN521• 3 analog inputs• 3 potential-free digital inputs/outputs• Input and output functions configurable via rotary switch	200,-
TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	135,-
TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	135,-
 TCB-IFCB-4E2 Operating, error signal, remote On/Off module <ul style="list-style-type: none">• Operating and error signal output• Can be connected to the master unit of a group to handle the I/O control and error messages of up to 16 indoor units• For connecting to a CN61• Potential-free contact	475,-
 RBC-FDP3-PE Analog Interface <ul style="list-style-type: none">• Compatible with all indoor units that have an A/B remote control bus• Controls all main functions via 0-10V signals or fixed resistors• Operating and error signal output• Modbus connection possible	760,-
 RBC-FDP3-Modbus Modbus Interface <ul style="list-style-type: none">• Compatible with all indoor units that have an A/B remote control bus• Control of all main functions• Facilitates the addressing of up to 64 interfaces in an RS485 network to control multi-zone systems• Read out of all error codes possible	595,-
 TO-RC-BAC-1 BACnet® 1:1 interface <ul style="list-style-type: none">• Compatible with all indoor units that have an A/B remote control bus• Control of all main functions• To control all the functions of an indoor unit, or a group of up to 16 indoor units• Not a stock item - lead time on request	750,-

External control options

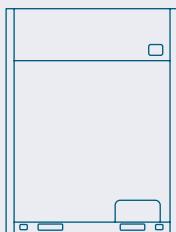
TYPE / DESCRIPTION	PRICE €
	330,-
TCB-PCOS1E2 Noise reduction module <ul style="list-style-type: none"> • Compatible with R32 outdoor units DI CLASSIC, DI NEXT (562 to 1602), SDI 1-phase • Input for noise reduction (night operation) • Input for max. capacity control 0/50/75 % • Output for compressor operating signal 	
	50,-
TCB-KBOS4E Noise Reduction Cable Set <ul style="list-style-type: none"> • Compatible with R32 outdoor units DI-BIG & SDI, 3-phase • Input for noise reduction (night operation) • Input for max. capacity control 0/50/75 % • Output for compressor operating signal 	
	165,-
TCB-PCNT30TLE2 TCC / TU2C link network adapter <ul style="list-style-type: none"> • For integrating RAV in VRF control systems • Supports the interfacing of network units such as central or BMS controllers to RAV systems • For indoor units • Already integrated in all high-wall units 	
	135,-
TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	
	135,-
TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	
	1.990,-
TCB-ACREDU2-E Redundancy Box <ul style="list-style-type: none"> • Redundancy switchover unit for two indoor units (or groups) in the event of a fault • Operating hours-dependent switchover for two indoor units • Temperature-dependent activation of second system • Connection to CN61 of indoor units • Plug & Play, temperature sensor included • LAN port, monitoring via web browser possible. 	
	6,-
TCB-KBCN32VEE CN32 - DO: Control of an external fan	
	11,-
TCB-KBCN60OPE CN60 - DO: Operating signal cooling, heating, fan, defrost, thermo On	
	11,-
TCB-KBCN61HAE CN61 - DI/DO: HA terminal: On/Off, enable/block, operating performance, alarm	
	6,-
TCB-KBCN700AE CN70 - DI: external alarm input	
	6,-
TCB-KBCN73DEE CN73 - DI: external thermo Off input	
	6,-
TCB-KBCN80EXE CN80 - DI: external alarm input	



PLAN FOR EXCELLENCE.
COOL EXCELLENTLY.

OVERVIEW OF VRF OUTDOOR UNITS

- › Integration of heating, cooling, hot water preparation & fresh air supply
- › Systems for heating or cooling, and for heating & cooling at the same time
- › Capacities up to 335 kW for cooling and heating
- › Up to 128 indoor units can be connected
- › External heat exchanger can be integrated
- › Convenient control options for all needs



SMMSu

Cooling capacity (kW): 22.4 | 28.0 | 33.5 | 40.0 |
45.0 |
50.4 | 56.0 | 61.5 | 67.0

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MiNi SMMS R32

Cooling capacity (kW): 12.1 | 14.0 | 15.5

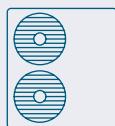
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MiNi SMMS SINGLE FAN

Cooling capacity (kW): 12.1 | 14.0

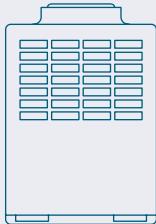
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MiNi SMMSe

Cooling capacity (kW): 12.1 | 14.0 | 15.5 | 22.4 |
28.0

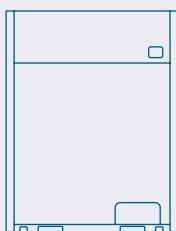
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SHRMe

Cooling capacity (kW): 22.4 | 28.0 | 33.5 | 40.0 |
45.0 | 50.4 | 56.0

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SHRMa

Cooling capacity: 22.4 | 28.0 | 33.5 |
40.0 | 45.0 | 50.4 | 56.0 | 61.5 | 67.0

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SMMSu outdoor units

- › 2-pipe outdoor units for up to 128 indoor units
- › Latest generation – universally combinable
- › With new defrost technology and high-speed system bus
- › Maximum efficiency, operational reliability, and service-friendliness
- › Leading-edge flexibility in terms of pipework & control options
- › SEER efficiency values up to 7.73 – SCOP efficiency values up to 4.79
- › Controls locally hard-wired or infrared, central and/or via BMS
- › World's first triple rotary compressor



SMMSu
SUPER MODULAR MULTI SYSTEM



OUTDOOR UNIT		MMY-MUP0801HT8P-E	MMY-MUP1001HT8P-E	MMY-MUP1201HT8P-E	MMY-MUP1401HT8P-E
Capacity code	HP	8	10	12	14
Cooling capacity	kW	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	5,64	8,36	10,34	14,55
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,44	7,73	7,32	7,05
Running current	A	9,15	13,4	16,0	22,6
Heating capacity	kW	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	5,28	7,20	7,77	10,00
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,50	4,78	4,75	4,60
Running current	A	8,56	11,5	12,1	15,5
Airflow	m³/h	9900	10500	11700	11880
External static pressure	Pa	80	80	80	80
Sound pressure level (low/med/high)	dB(A)	53	55	58	58
Sound pressure level (low/med/high)	dB(A)	56	58	62	62
Sound power level	dB(A)	75	77	79	79
Sound power level	dB(A)	76	77	81	82
Compressor type		1x Twin-Rotary	1x Twin-Rotary	1x Twin-Rotary	1x Twin-Rotary
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	12,7 (½)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Outdoor temperature operating range (min.-max.)	°C	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 20	3x 25	3x 32	3x 32
Pipe length (max.)	m	500	500	500	500
Height difference (max.)	m	110	110	110	110
Refrigerant		R410A	R410A	R410A	R410A
Refrigerant charge	kg	6,00	6,00	6,00	6,00
Dimensions (HxDxW)	mm	1690 x 990 x 780			
Weight	kg	228	228	228	228
Price	€	12.860,-	13.440,-	14.680,-	17.610,-

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUS1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 8 to 14 HP chassis	310,-



OUTDOOR UNIT		MMY-MUP1601HT8P-E	MMY-MUP1801HT8P-E	MMY-MUP2001HT8P-E	MMY-MUP2201HT8P-E	MMY-MUP2401HT8P-E
Capacity code	HP	16	18	20	22	24
Cooling capacity	kW	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	kW	14,06	15,90	18,01	20,43	24,19
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-	-
Energy efficiency SEER		7,71	7,68	7,62	7,23	6,87
Running current	A	21,6	24,4	27,7	31,4	37,1
Heating capacity	kW	45,00	50,40	56,00	61,50	64,50
Power consumption (min./nom./max.)	kW	11,94	12,54	14,93	16,18	18,98
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-	-
Energy efficiency SCOP		4,79	4,75	4,43	4,44	4,17
Running current	A	18,3	19,3	22,9	24,8	29,1
Airflow	m³/h	15300	16800	15900	16500	16500
External static pressure	Pa	80	80	80	80	80
Sound pressure level (low/med/high)	dB(A)	60	61	63	63	63
Sound pressure level (low/med/high)	dB(A)	63	67	67	67	67
Sound power level	dB(A)	83	84	86	86	86
Sound power level	dB(A)	86	89	90	90	90
Compressor type		1x Triple-Rotary	1x Triple-Rotary	1x Triple-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	34,9 (1 3/8)
Outdoor temperature operating range (min.-max.)	°C	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Outdoor temperature operating range (min.-max.)	°C	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 40	3x 40	3x 40	3x 63	3x 63
Pipe length (max.)	m	500	500	500	500	500
Height difference (max.)	m	110	110	110	110	110
Refrigerant		R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg	9,00	9,00	9,00	9,00	9,00
Dimensions (HxWxD)	mm	1690 x 1290 x 780				
Weight	kg	312	312	334	356	356
Price	€	18.880,-	20.350,-	21.810,-	23.260,-	25.240,-

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUM1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 16 to 24 HP chassis	350,-

SMMSu combination tables



OUTDOOR UNIT		MMY-MUP0801HT8P-E	MMY-MUP1001HT8P-E	MMY-MUP1201HT8P-E	MMY-MUP1401HT8P-E
Capacity code	HP	8	10	12	14
Combined units		-	-	-	-
Cooling capacity	kW	22,40	28,00	33,50	40,00
Heating capacity	kW	22,40	28,00	33,50	40,00
Connectable indoor units (max.)	Pce.	18	22	27	31



OUTDOOR UNIT		MMY-MUP1601HT8P-E	MMY-MUP1801HT8P-E	MMY-MUP2001HT8P-E	MMY-MUP2201HT8P-E	MMY-MUP2401HT8P-E1
Capacity code	HP	16	18	20	22	24
Combined units		-	-	-	-	-
Cooling capacity	kW	45,00	50,40	56,00	61,50	67,00
Heating capacity	kW	45,00	50,40	56,00	61,50	64,50
Connectable indoor units (max.)	Pce.	36	40	45	49	54



OUTDOOR UNIT		MMY-UP2611HT8P-E	MMY-UP2811HT8P-E	MMY-UP3011HT8P-E	MMY-UP3211HT8P-E	MMY-UP3411HT8P-E	MMY-UP3611HT8P-E	MMY-UP3811HT8P-E
Capacity code	HP	26	28	30	32	34	36	38
Combined units		14 + 12	14 + 14	18 + 12	20 + 12	20 + 14	24 + 12	24 + 14
Cooling capacity	kW	73,50	80,00	83,90	89,50	96,00	100,50	107,00
Heating capacity	kW	73,50	80,00	83,90	89,50	96,00	100,50	107,00
Connectable indoor units (max.)	Pce.	58	63	64	65	66	67	68



OUTDOOR UNIT		MMY-UP4011HT8P-E	MMY-UP4211HT8P-E	MMY-UP4411HT8P-E	MMY-UP4611HT8P-E	MMY-UP4811HT8P-E	MMY-UP5011HT8P-E	MMY-UP5211HT8P-E
Capacity code	HP	40	42	44	46	48	50	52
Combined units		20 + 20	24 + 18	24 + 20	24 + 22	24 + 24	24 + 14 + 12	24 + 14 + 14
Cooling capacity	kW	112,00	117,40	123,00	128,50	134,00	140,50	147,00
Heating capacity	kW	112,00	117,40	123,00	128,50	134,00	140,50	147,00
Connectable indoor units (max.)	Pce.	69	70	71	72	73	74	75



OUTDOOR UNIT		MMY-UP5411HT8P-E	MMY-UP5611HT8P-E	MMY-UP5811HT8P-E	MMY-UP6011HT8P-E	MMY-UP6211HT8P-E	MMY-UP6411HT8P-E
Capacity code	HP	54	56	58	60	62	64
Combined units		20 + 20 + 14	24 + 20 + 12	24 + 20 + 14	24 + 24 + 12	24 + 24 + 14	24 + 20 + 20
Cooling capacity	kW	152,00	156,50	163,00	167,50	174,00	179,00
Heating capacity	kW	152,00	156,50	163,00	167,50	174,00	179,00
Connectable indoor units (max.)	Pce.	76	77	78	79	80	81



OUTDOOR UNIT		MMY-UP6611HT8P-E	MMY-UP6811HT8P-E	MMY-UP7011HT8P-E	MMY-UP7211HT8P-E	MMY-UP7411HT8P-E	MMY-UP7611HT8P-E
Capacity code	HP	66	68	70	72	74	76
Combined units		24 + 22 + 20	24 + 24 + 20	24 + 24 + 22	24 + 24 + 24	24 + 24 + 14 + 12	24 + 24 + 14 + 14
Cooling capacity	kW	184,50	190,00	195,50	201,00	207,50	214,00
Heating capacity	kW	184,50	190,00	195,50	201,00	207,50	214,00
Connectable indoor units (max.)	Pce.	82	83	84	85	86	87



OUTDOOR UNIT		MMY-UP7811HT8P-E	MMY-UP8011HT8P-E	MMY-UP8211HT8P-E	MMY-UP8411HT8P-E	MMY-UP8611HT8P-E	MMY-UP8811HT8P-E
Capacity code	HP	78	80	82	84	86	88
Combined units		24 + 20 + 20 + 14	24 + 24 + 20 + 12	24 + 24 + 20 + 14	24 + 24 + 24 + 12	24 + 24 + 24 + 14	24 + 24 + 20 + 20
Cooling capacity	kW	219,00	223,50	230,00	234,50	241,00	246,00
Heating capacity	kW	219,00	223,50	230,00	234,50	241,00	246,00
Connectable indoor units (max.)	Pce.	88	90	92	94	96	98



OUTDOOR UNIT		MMY-UP9011HT8P-E	MMY-UP9211HT8P-E	MMY-UP9411HT8P-E	MMY-UP9611HT8P-E	MMY-UP9811HT8P-E	MMY-UP10011HT8P-E
Capacity code	HP	90	92	94	96	98	100
Combined units		24 + 24 + 22 + 20	24 + 24 + 24 + 20	24 + 24 + 24 + 22	24 + 24 + 24 + 24	24+24+24+14+12	24+24+24+14+14
Cooling capacity	kW	251,50	257,00	262,50	268,00	274,50	281,00
Heating capacity	kW	251,50	257,00	262,50	268,00	274,50	281,00
Connectable indoor units (max.)	Pce.	100	102	104	106	108	110

SMMSu combination tables



OUTDOOR UNIT		MMY-UP10211HT8P-E	MMY-UP10411HT8P-E	MMY-UP10611HT8P-E	MMY-UP10811HT8P-E	MMY-UP11011HT8P-E
Capacity code	HP	102	104	106	108	110
Combined units		24 + 24 + 20 + 20 + 14	24 + 24 + 24 + 20 + 12	24 + 24 + 24 + 20 + 14	24 + 24 + 24 + 24 + 12	24 + 24 + 24 + 24 + 14
Cooling capacity	kW	286,00	290,50	297,00	301,50	308,00
Heating capacity	kW	286,00	290,50	297,00	301,50	308,00
Connectable indoor units (max.)	Pce.	112	114	116	118	120



OUTDOOR UNIT		MMY-UP11211HT8P-E	MMY-UP11411HT8P-E	MMY-UP11611HT8P-E	MMY-UP11811HT8P-E	MMY-UP12011HT8P-E
Capacity code	HP	112	114	116	118	120
Combined units		24 + 24 + 24 + 20 + 20	24 + 24 + 24 + 22 + 20	24 + 24 + 24 + 24 + 20	24 + 24 + 24 + 24 + 22	24 + 24 + 24 + 24 + 24
Cooling capacity	kW	313,00	318,50	324,00	329,50	335,00
Heating capacity	kW	313,00	318,50	324,00	329,50	335,00
Connectable indoor units (max.)	Pce.	122	124	126	128	128



SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP2611HT8P-E	MMY-UP2811HT8P-E	MMY-UP3011HT8P-E	MMY-UP3211HT8P-E
Capacity code	HP	26	28	30	32
Combined units		14 + 12	14 + 14	18 + 12	20 + 12
Cooling capacity	kW	73,50	80,00	83,90	89,50
Power consumption (min./nom./max.)	kW	24,89	29,10	26,24	28,35
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,17	7,05	7,52	7,50
Heating capacity	kW	73,50	80,00	83,90	89,50
Power consumption (min./nom./max.)	kW	17,77	20,00	20,31	22,70
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,67	4,60	4,75	4,55
Airflow	m³/h	11800 + 11700	2 x 11800	15900 + 11880	16500 + 11700
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Sound pressure level (low/med/high)	dB(A)	61,5	64,2	63,0	64,5
Sound pressure level (low/med/high)	dB(A)	65,5	65,5	68,5	68,5
Sound power level	dB(A)	82,5	82,5	85,5	87,0
Sound power level	dB(A)	85	85	90,0	91,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2 x 228	2 x 228	334 + 228	356 + 228
Price	€	32.290,-	35.220,-	35.030,-	36.490,-

OUTDOOR UNIT		MMY-UP3411HT8P-E	MMY-UP3611HT8P-E	MMY-UP3811HT8P-E	MMY-UP4011HT8P-E
Capacity code	HP	34	36	38	40
Combined units		20 + 14	24 + 12	24 + 14	20 + 20
Cooling capacity	kW	96,00	100,50	107,00	112,00
Power consumption (min./nom./max.)	kW	32,56	34,53	38,74	36,02
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,38	7,01	6,93	7,62
Heating capacity	kW	96,00	100,50	107,00	112,00
Power consumption (min./nom./max.)	kW	24,93	26,75	28,98	29,86
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,50	4,38	4,33	4,43
Airflow	m³/h	15900 + 11880	16500 + 11700	16500 + 11880	2 x 15900
Liquid pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Sound pressure level (low/med/high)	dB(A)	64,5	64,5	64,5	66,5
Sound pressure level (low/med/high)	dB(A)	68,5	68,5	68,5	70,5
Sound power level	dB(A)	87,0	87,0	87,0	89,5
Sound power level	dB(A)	91,0	91,0	91,0	93,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	334 + 228	356 + 228	356 + 228	334 + 334
Price	€	39.420,-	39.920,-	42.850,-	43.620,-

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP4211HT8P-E	MMY-UP4411HT8P-E	MMY-UP4611HT8P-E	MMY-UP4811HT8P-E
Capacity code	HP	42	44	46	48
Combined units		24 + 18	24 + 20	24 + 22	24 + 24
Cooling capacity	kW	117,40	123,00	128,50	134,00
Power consumption (min./nom./max.)	kW	40,09	42,20	44,62	48,38
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,22	7,21	7,04	6,87
Heating capacity	kW	117,40	123,00	128,50	134,00
Power consumption (min./nom./max.)	kW	31,52	33,91	35,16	37,96
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,43	4,30	4,31	4,17
Airflow	m³/h	16500 + 16800	16500 + 15900	2 x 16500	2 x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Sound pressure level (low/med/high)	dB(A)	65,5	88,5	89,5	66,5
Sound pressure level (low/med/high)	dB(A)	70,5	70,5	70,5	70,5
Sound power level	dB(A)	88,5	88,5	88,5	89,5
Sound power level	dB(A)	93,0	93,0	93,0	93,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	356 + 312	356 + 334	356 + 356	356 + 356
Price	€	45.590,-	47.050,-	48.500,-	50.480,-

OUTDOOR UNIT		MMY-UP5011HT8P-E	MMY-UP5211HT8P-E	MMY-UP5411HT8P-E	MMY-UP5611HT8P-E
Capacity code	HP	50	52	54	56
Combined units		24 + 14 + 12	24 + 14 + 14	20 + 20 + 14	24 + 20 + 12
Cooling capacity	kW	140,50	147,00	152,00	156,50
Power consumption (min./nom./max.)	kW	49,08	53,29	50,57	52,54
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,02	6,96	7,49	7,23
Heating capacity	kW	140,50	147,00	152,00	156,50
Power consumption (min./nom./max.)	kW	36,75	38,98	39,86	41,68
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,44	4,41	4,47	4,41
Airflow	m³/h	16500 + 11880 + 11700	16500 + 2x 11880	2x 15900 + 11880	16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Sound pressure level (low/med/high)	dB(A)	66,5	65,5	67,0	67,0
Sound pressure level (low/med/high)	dB(A)	70,5	69,5	71,0	71,0
Sound power level	dB(A)	89,5	87,5	89,5	89,5
Sound power level	dB(A)	93,5	91,5	93,5	93,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	356 + 2x 228	356 + 2x 228	2x 334 + 228	356 + 334 + 228
Price	€	57.530,-	60.460,-	61.230,-	61.730,-

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP5811HT8P-E	MMY-UP6011HT8P-E	MMY-UP6211HT8P-E	MMY-UP6411HT8P-E
Capacity code	HP	58	60	62	64
Combined units		24 + 20 + 14	24 + 24 + 12	24 + 24 + 14	24 + 20 + 20
Cooling capacity	kW	163,00	167,50	174,00	179,00
Power consumption (min./nom./max.)	kW	56,75	58,72	62,93	60,21
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,19	6,95	6,29	7,34
Heating capacity	kW	163,00	167,50	174,00	179,00
Power consumption (min./nom./max.)	kW	43,91	45,73	47,96	48,84
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,37	4,30	4,27	4,34
Airflow	m³/h	16500 + 15900 + 11700	2x 16500 + 11700	2x 16500 + 11880	16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	44,5 (1 3/4)	44,5 (1 3/4)
Sound pressure level (low/med/high)	dB(A)	67,0	67,0	67,0	67,0
Sound pressure level (low/med/high)	dB(A)	71,0	71,0	71,0	71,0
Sound power level	dB(A)	89,5	89,5	89,5	89,5
Sound power level	dB(A)	93,5	93,5	93,5	93,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	356 + 334 + 228	2x 356 + 228	2x 356 + 228	356 + 2x 334
Price	€	64.660,-	65.160,-	68.090,-	68.860,-

OUTDOOR UNIT		MMY-UP6611HT8P-E	MMY-UP6811HT8P-E	MMY-UP7011HT8P-E	MMY-UP7211HT8P-E
Capacity code	HP	66	68	70	72
Combined units		24 + 22 + 20	24 + 24 + 20	24 + 24 + 22	24 + 24 + 24
Cooling capacity	kW	184,50	190,00	195,50	201,00
Power consumption (min./nom./max.)	kW	62,63	66,39	68,81	72,57
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,21	7,09	6,98	6,87
Heating capacity	kW	184,50	190,00	195,50	201,00
Power consumption (min./nom./max.)	kW	50,09	52,89	54,14	56,94
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,35	4,26	4,26	4,17
Airflow	m³/h	2x 16500 + 15900	2x 16500 + 15900	3x 165000	3x 165000
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	44,5 (1 3/4)	44,5 (1 3/4)	44,5 (1 3/4)	44,5 (1 3/4)
Sound pressure level (low/med/high)	dB(A)	68,0	68,0	68,0	68,0
Sound pressure level (low/med/high)	dB(A)	72,0	72,0	72,0	72,0
Sound power level	dB(A)	91,0	91,0	91,0	91,0
Sound power level	dB(A)	95,0	95,0	95,0	95,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 356 + 334	2x 356 + 334	3x 356	3x 356
Price	€	70.310,-	72.290,-	73.740,-	75.720,-

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP7411HT8P-E	MMY-UP7611HT8P-E	MMY-UP7811HT8P-E	MMY-UP8011HT8P-E
Capacity code	HP	74	76	78	80
Combined units		24 + 24 + 14 + 12	24 + 24 + 14 + 14	24 + 20 + 20 + 14	24 + 24 + 20 + 12
Cooling capacity	kW	207,50	214,00	219,00	223,50
Power consumption (min./nom./max.)	kW	73,27	77,48	74,76	76,73
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		6,97	6,93	7,30	7,14
Heating capacity	kW	207,50	214,00	219,00	223,50
Power consumption (min./nom./max.)	kW	55,73	57,96	58,84	60,66
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,36	4,33	4,39	4,34
Airflow	m³/h	2x 16500 + 11880 + 11700	2x 16500 + 2x 11880	16500 + 2x 15900 + 11880	2x 16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	44,5 (1 3/4)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A)	68,0	67,5	68,5	68,5
Sound pressure level (low/med/high)	dB(A)	72,0	71,5	72,5	72,5
Sound power level	dB(A)	91,0	90,0	91,5	91,5
Sound power level	dB(A)	95,0	94,0	95,0	95,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 356 + 2x 228	2x 356 + 2x 228	356 + 2x 334 + 228	2x 356 + 334 + 228
Price	€	82.770,-	85.700,-	86.470,-	86.970,-

OUTDOOR UNIT		MMY-UP8211HT8P-E	MMY-UP8411HT8P-E	MMY-UP8611HT8P-E	MMY-UP8811HT8P-E
Capacity code	HP	82	84	86	88
Combined units		24 + 24 + 20 + 14	24 + 24 + 24 + 12	24 + 24 + 24 + 14	24 + 24 + 20 + 20
Cooling capacity	kW	230,00	234,50	241,00	246,00
Power consumption (min./nom./max.)	kW	80,94	82,91	87,12	84,40
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,10	6,95	6,91	7,21
Heating capacity	kW	230,00	234,50	241,00	246,00
Power consumption (min./nom./max.)	kW	62,89	64,71	66,94	67,82
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,32	4,26	4,25	4,30
Airflow	m³/h	2x 16500 + 15900 + 11880	3x 16500 + 11700	3x 16500 + 11880	2x 16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A)	68,5	68,5	68,5	68,5
Sound pressure level (low/med/high)	dB(A)	72,5	72,5	72,5	72,5
Sound power level	dB(A)	91,5	91,5	91,5	91,5
Sound power level	dB(A)	95,0	95,0	95,0	95,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 356 + 334 + 228	3x 356 + 228	3x 356 + 228	2x 356 + 2x 334
Price	€	89.900,-	90.400,-	93.330,-	94.100,-

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP9011HT8P-E	MMY-UP9211HT8P-E	MMY-UP9411HT8P-E	MMY-UP9611HT8P-E
Capacity code	HP	90	92	94	96
Combined units		24 + 24 + 22 + 20	24 + 24 + 24 + 20	24 + 24 + 24 + 22	24 + 24 + 24 + 24
Cooling capacity	kW	251,50	257,00	262,50	268,00
Power consumption (min./nom./max.)	kW	86,82	90,58	93,00	96,76
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,12	7,03	6,95	6,87
Heating capacity	kW	251,50	257,00	262,50	268,00
Power consumption (min./nom./max.)	kW	69,07	71,87	73,12	75,92
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,30	4,24	4,24	4,17
Airflow	m³/h	3x 16500 + 15900	3x 16500 + 15900	4x 16500	4x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A)	69,5	69,5	69,5	69,5
Sound pressure level (low/med/high)	dB(A)	73,5	73,5	73,5	73,5
Sound power level	dB(A)	92,5	92,5	92,5	92,5
Sound power level	dB(A)	96,5	96,5	96,5	96,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 356 + 334	3x 356 + 334	4x 356	4x 356
Price	€	95.550,-	97.530,-	98.980,-	100.960,-

OUTDOOR UNIT		MMY-UP9811HT8P-E	MMY-UP10011HT8P-E	MMY-UP10211HT8P-E	MMY-UP10411HT8P-E
Capacity code	HP	98	100	102	104
Combined units		24+24+24+14+12	24+24+24+14+14	24 + 24 + 20 + 20 +14	24 + 24 + 24 + 20 + 12
Cooling capacity	kW	274,50	281,00	286,00	290,50
Power consumption (min./nom./max.)	kW	97,46	101,67	98,98	100,92
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		6,95	6,94	7,20	7,08
Heating capacity	kW	274,50	281,00	286,00	290,50
Power consumption (min./nom./max.)	kW	74,71	76,94	77,82	79,64
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,31	4,30	4,34	4,30
Airflow	m³/h	3x 16500 + 11880 + 11700	3x 16500 + 2x 11880	2x 16500 + 2x 15900 + 11880	3x 16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A)	69,5	69,0	69,5	69,5
Sound pressure level (low/med/high)	dB(A)	73,5	73,0	73,0	73,0
Sound power level	dB(A)	92,5	91,5	91,5	91,5
Sound power level	dB(A)	96,5	95,5	95,5	95,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 356 + 2x 228	3x 356 + 2x 228	2x 356 + 2x 334 + 228	3x 356 + 334 + 228
Price	€	108.010,-	110.940,-	111.710,-	112.210,-

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP10611HT8P-E	MMY-UP10811HT8P-E	MMY-UP11011HT8P-E	MMY-UP11211HT8P-E
Capacity code	HP	106	108	110	112
Combined units		24 + 24 + 24 + 20 + 14	24 + 24 + 24 + 24 + 12	24 + 24 + 24 + 24 + 14	24 + 24 + 24 + 20 + 20
Cooling capacity	kW	297,00	301,50	308,00	313,00
Power consumption (min./nom./max.)	kW	105,13	107,10	111,31	108,59
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,04	6,93	6,90	7,13
Heating capacity	kW	297,00	301,50	308,00	313,00
Power consumption (min./nom./max.)	kW	81,87	83,69	85,92	86,80
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,29	4,24	4,23	4,28
Airflow	m³/h	3x 16500 + 15900 + 11880	4x 16500 + 11700	4x 16500 + 11880	3x 16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A)	69,5	69,5	69,5	69,5
Sound pressure level (low/med/high)	dB(A)	73,0	73,0	73,0	73,0
Sound power level	dB(A)	91,5	91,5	91,5	91,5
Sound power level	dB(A)	95,5	95,5	95,5	95,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 356 + 334 + 228	4x 356 + 228	4x 356 + 228	3x 356 + 2x 334
Price	€	115.140,-	115.640,-	118.570,-	119.340,-

OUTDOOR UNIT		MMY-UP11411HT8P-E	MMY-UP11611HT8P-E	MMY-UP11811HT8P-E	MMY-UP12011HT8P-E
Capacity code	HP	114	116	118	120
Combined units		24 + 24 + 24 + 22 + 20	24 + 24 + 24 + 24 + 20	24 + 24 + 24 + 24 + 22	24 + 24 + 24 + 24 + 24
Cooling capacity	kW	318,50	324,00	329,50	335,00
Power consumption (min./nom./max.)	kW	111,01	114,77	117,19	120,95
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		7,07	7,00	6,93	6,87
Heating capacity	kW	318,50	324,00	329,50	335,00
Power consumption (min./nom./max.)	kW	88,05	90,85	92,10	94,90
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,28	4,22	4,23	4,17
Airflow	m³/h	4x 16500 + 15900	4x 16500 + 15900	5x 16500	5x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A)	70,0	70,0	70,0	70,0
Sound pressure level (low/med/high)	dB(A)	74,0	74,0	74,0	74,0
Sound power level	dB(A)	93,0	93,0	93,0	93,0
Sound power level	dB(A)	97,0	97,0	97,0	97,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	4x 356 + 334	4x 356 + 334	5x 356	5x 356
Price	€	120.790,-	122.770,-	124.220,-	126.200,-

MiNi SMMS R32 outdoor units

- › Ultra-compact 2-pipe outdoor unit for up to 13 indoor units
- › Optimum protection of the environment: made in Europe with low GWP refrigerant
- › Quiet: 3-stage night operation to reduce noise
- › Comprehensive and simple safety concept
- › SEER efficiency values up to 9.98 – SCOP efficiency values up to 5.21
- › Controls locally hard-wired or infrared, central and/or via BMS



OUTDOOR UNIT		MCY-MUG0401HSW-E	MCY-MUG0501HSW-E	MCY-MUG0601HSW-E
Cooling capacity	kW	12,10	14,00	15,50
Power consumption (min./nom./max.)	kW	2,92	3,73	4,29
Energy efficiency EER	W/W	4,14	3,75	3,61
Energy efficiency SEER		9,98	9,21	8,80
Running current	A	13,1	16,3	18,6
Heating capacity	kW	12,10	14,00	15,50
Power consumption (min./nom./max.)	kW	2,38	2,95	3,36
Energy efficiency COP	W/W	5,08	4,75	4,61
Energy efficiency SCOP		5,21	4,93	4,80
Running current	A	10,9	13,2	14,8
Airflow	m³/h	4560	4740	4740
Outdoor temperature operating range (min.-max.)	°C	-5 / +46	-5 / +46	-5 / +46
Outdoor temperature operating range (min.-max.)	°C	-20 / +15	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Sound pressure level (low/med/high)	dB(A)	71	72	73
Sound pressure level (low/med/high)	dB(A)	54	55	56
Suction gas pipe diameter	mm (inch)	15,8 (5/8)	15,8 (5/8)	15,8 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m	300	300	300
Height difference (max.)	m	40/50	40/50	40/50
Connectable indoor units (max.)	Pce.	8	10	13
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,40	2,40	2,40
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	100	100	100
Price	€	6.425,-	6.570,-	7.170,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-LD1UPE	Leak detection sensor - SHRMa / MiNi SMMS R32	400,-
TCB-BT1UPE	Battery kit for shut-off valve and flow box - SHRMa / MiNi SMMS R32	380,-
RBM-SV1121HUPE	Shut-off valve kit - SHRMa / MiNi SMMS R32	1.110,-
RBM-SV1801HUPE	Shut-off valve kit - SHRMa / MiNi SMMS R32 4,0 up to ≤ 6,4 HP	1.230,-

ITEM NUMBER	DESCRIPTION
	Leak detection sensor TCB-LD1UPE <ul style="list-style-type: none"> › Stand-alone › Power supply via the indoor unit › 10 year service life for sensor
	Battery TCB-BT1UPE <ul style="list-style-type: none"> › Guarantees the shut-off function even in a power blackout › 5-year service life › For installation in the flow box or shut-off box
	Shut-off box RBM-SV_HUPE <ul style="list-style-type: none"> › For isolating leaking indoor units from the main refrigerant circuit › Only required in 2-pipe operation since all flow boxes contain shut-off valves.

MiNi SMMS single fan outdoor units

- Ultra-compact 2-pipe outdoor unit for up to 10 indoor units
- SEER efficiency values up to 8.08 – SCOP efficiency values up to 5.36
- Controls locally hard-wired or infrared, central and/or via BMS



OUTDOOR UNIT		MCY-MHP0406HT-E	MCY-MHP0506HT-E1
Cooling capacity	kW	12,10	14,00
Power consumption (min./nom./max.)	kW	3,24	3,94
Energy efficiency EER	W/W	3,73	3,23
Energy efficiency SEER		8,08	7,77
Running current	A	13,8	17,9
Heating capacity	kW	12,50	16,00
Power consumption (min./nom./max.)	kW	2,83	3,86
Energy efficiency COP	W/W	4,42	4,00
Energy efficiency SCOP		3,83	3,88
Running current	A	12,80	17,50
Airflow	m³/h	4020	4260
Outdoor temperature operating range (min.-max.)	°C	-5 / +46	-5 / +46
Outdoor temperature operating range (min.-max.)	°C	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Sound pressure level (low/med/high)	dB(A)	54	54
Sound pressure level (low/med/high)	dB(A)	57	58
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m	90	90
Height difference (max.)	m	15/15	15/15
Connectable indoor units (max.)	Pce.	8	10
Compressor type		1x Twin-Rotary	1x Twin-Rotary
Refrigerant		R410A	R410A
Refrigerant charge	kg	3,30	3,30
Dimensions (HxWxD)	mm	910 x 990 x 390	910 x 990 x 390
Weight	kg	100	100
Price	€	5.280,-	5.380,-

MiNi SMMSe outdoor units

- Compact 2-pipe outdoor unit for up to 13 indoor units
- SEER efficiency values up to 9.68 – SCOP efficiency values up to 7.19
- Controls locally hard-wired or infrared, central and/or via BMS



MiNi SMMSe – 3-phase

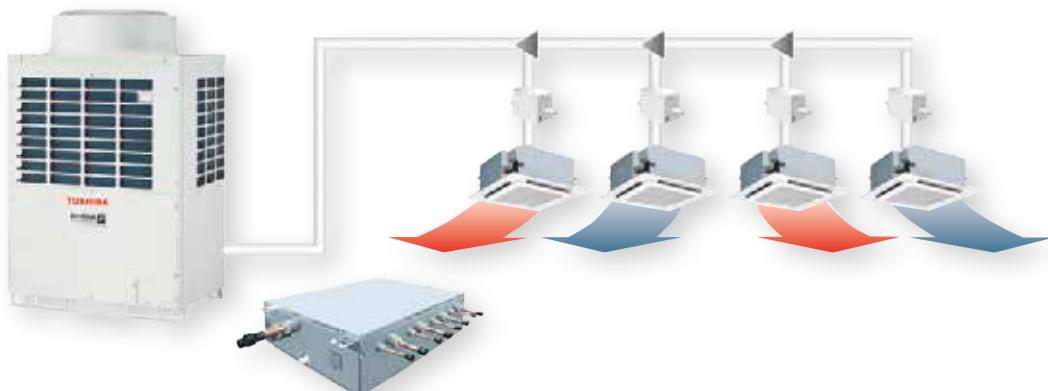
OUTDOOR UNIT		MCY-MHP0404HS8-E	MCY-MHP0504HS8-E	MCY-MHP0604HS8-E	MCY-MHP0806HS8-E	MCY-MHP1006HS8-E
Cooling capacity	kW	12,10	14,00	15,50	22,40	28,00
Power consumption (min./nom./max.)	kW	2,82	3,47	4,25	6,67	9,34
Energy efficiency EER	W/W	4,29	4,03	3,65	3,36	3,00
Energy efficiency SEER		-	-	-	8,09	7,40
Running current	A	4,50	5,40	6,70	10,6	14,5
Heating capacity	kW	12,50	16,00	18,00	22,40	28,00
Power consumption (min./nom./max.)	kW	2,57	3,72	4,27	5,20	7,00
Energy efficiency COP	W/W	4,86	4,40	4,22	4,31	4,00
Energy efficiency SCOP		4,19	4,25	4,38	4,50	4,38
Running current	A	4,20	5,80	6,60	8,2	10,9
Airflow	m³/h	5660	5820	6050	8460	8820
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min.-max.)	°C	-20 / +15,5	-20 / +15,5	-20 / +15,5	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Sound pressure level (low/med/high)	dB(A)	49	50	51	58	59
Sound pressure level (low/med/high)	dB(A)	52	53	54	59	60
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	19,1 (3/4)	19,1 (3/4)	22,2 (7/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m	180	180	180	300	300
Height difference (max.)	m	20/30	20/30	20/30	30	30
Connectable indoor units (max.)	Pce.	8	10	13	12	16
Compressor type		1x Twin Rotary	1x Twin Rotary	1x Twin Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg	6,40	6,40	6,40	4,40	4,40
Dimensions (HxWxD)	mm	1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390	1740 x 990 x 390	1740 x 990 x 390
Weight	kg	125	125	125	147	147
Price	€	6.170,-	6.310,-	6.900,-	9.810,-	10.060,-

SHRMe outdoor units

- 3-pipe heat recovery outdoor unit for up to 64 indoor units
- SEER efficiency values up to 6.07 – SCOP efficiency values up to 5.27
- Controls locally hard-wired or infrared, central and/or via BMS
- Not a stock item – lead time on request



OUTDOOR UNIT		MMY-MAP0806FT8P-E	MMY-MAP1006FT8P-E	MMY-MAP1206FT8P-E	MMY-MAP1406FT8P-E
Capacity code	HP	8	10	12	14
Cooling capacity	kW	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	5,96	7,98	9,77	12,74
Partial load efficiency @ 80%/60%/40%	W/W	5,0 - 6,6 - 7,4	4,7 - 6,3 - 7,2	4,4 - 5,5 - 6,8	4,0 - 6,4 - 6,3
Energy efficiency SEER		6,07	6,03	5,94	5,61
Running current	A	9,44	12,49	15,46	19,92
Heating capacity	kW	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	5,40	7,05	8,70	10,50
Partial load efficiency @ 80%/60%/40%	W/W	5,1 - 5,8 - 5,9	4,9 - 5,5 - 5,6	4,6 - 5,2 - 5,5	4,7 - 5,3 - 5,4
Energy efficiency SCOP		3,64	3,53	3,71	3,57
Running current	A	8,57	11,06	13,80	16,47
Airflow	m³/h	9700	9700	12200	12200
External static pressure	Pa	60	50	50	40
Sound pressure level (low/med/high)	dB(A)	59	59	60	62
Sound pressure level (low/med/high)	dB(A)	61	61	62	64
Sound power level	dB(A)	80,0	80,0	80,0	81,0
Sound power level	dB(A)	82,0	82,0	82,0	83,0
Compressor type		2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25	-25 / +25	-25 / +25
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 25	3x 25	3x 32	3x 40
Pipe length (max.)	m	300	300	300	300
Height difference (max.)	m	90	90	90	90
Refrigerant		R410A	R410A	R410A	R410A
Refrigerant charge	kg	11,00	11,00	11,00	11,00
Dimensions (HxWxD)	mm	1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780	1830 x 1210 x 780
Weight	kg	263	263	316	316
Price	€	13.880,-	15.220,-	20.650,-	21.730,-



SHRMe outdoor units

OUTDOOR UNIT		MMY-MAP1606FT8P-E	MMY-MAP1806FT8P-E	MMY-MAP2006FT8P-E
Capacity code	HP	16	18	20
Cooling capacity	kW	45,00	50,40	56,00
Power consumption (min./nom./max.)	kW	13,93	16,00	18,60
Partial load efficiency @ 80%/60%/40%	W/W	4,2 - 5,5 - 7,0	4,3 - 6,0 - 7,3	3,7 - 4,6 - 5,7
Energy efficiency SEER		5,72	5,89	5,64
Running current	A	21,81	25,10	29,18
Heating capacity	kW	45,00	50,40	56,00
Power consumption (min./nom./max.)	kW	12,20	13,73	15,91
Partial load efficiency @ 80%/60%/40%	W/W	4,4 - 5,1 - 5,3	4,3 - 4,8 - 5,2	4,1 - 4,6 - 5,0
Energy efficiency SCOP		3,50	3,69	3,59
Running current	A	19,14	21,49	24,68
Airflow	m³/h	17300	17300	17900
External static pressure	Pa	40	40	40
Sound pressure level (low/med/high)	dB(A)	61	61	61
Sound pressure level (low/med/high)	dB(A)	62	62	62
Sound power level	dB(A)	83,0	83,0	83,0
Sound power level	dB(A)	84,0	84,0	84,0
Compressor type		2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25	-25 / +25
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 40	3x 50	3x 50
Pipe length (max.)	m	300	300	300
Height difference (max.)	m	90	90	90
Refrigerant		R410A	R410A	R410A
Refrigerant charge	kg	11,00	11,00	11,00
Dimensions (HxWxD)	mm	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 1600 x 780
Weight	kg	377	377	377
Price	€	23.610,-	25.350,-	26.560,-

Refrigerant flow boxes - single port - series 3 (standard functions)

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWxD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1123FE	1	1,7 - 11,2	5	190 x 250 x 160	5	1.035,-
RBM-Y1803FE	1	11,2 - 18,0	10	190 x 250 x 160	5	1.065,-
RBM-Y2803FE	1	18,0 - 28,0	10	200 x 377 x 200	8	1.795,-
RBC-FSEX15	15 m extension cable for flow boxes (not a stock item)					

Refrigerant flow boxes - single port - series 4 with integrated subcooler

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWxD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1124FE	1	1,7 - 11,2	5	180 x 425 x 300	12	1.785,-
RBM-Y1804FE	1	11,2 - 18,0	10	180 x 425 x 300	12	1.920,-
RBM-Y2804FE	1	18,0 - 28,0	10	180 x 495 x 350	17	3.160,-

Refrigerant flow boxes - multi-port - with integrated subcooler

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWxD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1801F4PE	4	1,7 - 18,0	10	215 x 730 x 567	38	4.380,-
RBM-Y1801F6PE	6	1,7 - 18,0	10	215 x 1050 x 567	53	6.510,-

SHRMe combination tables



OUTDOOR UNIT		MMY-MAP0806FT8P-E	MMY-MAP1006FT8P-E	MMY-MAP1206FT8P-E	MMY-MAP1406FT8P-E	MMY-MAP1606FT8P-E	MMY-MAP1806FT8P-E	MMY-MAP2006FT8P-E
Capacity code	HP	8	10	12	14	16	18	20
Combined units		-	-	-	-	-	-	-
Cooling capacity	kW	22,40	28,00	33,50	40,00	45,00	50,40	56,00
Heating capacity	kW	22,40	28,00	33,50	40,00	45,00	50,40	56,00
Connectable indoor units (max.)	Pce.	18	22	27	31	36	40	41



OUTDOOR UNIT		MMY-AP2216FT8P-E	MMY-AP2416FT8P-E	MMY-AP2616FT8P-E	MMY-AP2816FT8P-E	MMY-AP3016FT8P-E	MMY-AP3216FT8P-E
Capacity code	HP	22	24	26	28	30	32
Combined units		12 + 10	14 + 10	14 + 12	14 + 14	16 + 14	18 + 14
Cooling capacity	kW	61,50	68,00	73,50	80,00	85,00	90,40
Heating capacity	kW	61,50	68,00	73,50	80,00	85,00	90,40
Connectable indoor units (max.)	Pce.	49	54	58	63	64	64




OUTDOOR UNIT		MMY-AP3416FT8P-E	MMY-AP3616FT8P-E	MMY-AP3816FT8P-E	MMY-AP4016FT8P-E	MMY-AP4216FT8P-E
Capacity code	HP	34	36	38	40	42
Combined units		18 + 16	18 + 18	20 + 18	20 + 20	14 + 14 + 14
Cooling capacity	kW	95,40	100,80	106,40	112,00	120,00
Heating capacity	kW	95,40	100,80	106,40	112,00	120,00
Connectable indoor units (max.)	Pce.	64	64	64	64	64





OUTDOOR UNIT		MMY-AP4416FT8P-E	MMY-AP4616FT8P-E	MMY-AP4816FT8P-E	MMY-AP5016FT8P-E	MMY-AP5216FT8P-E	MMY-AP5416FT8P-E
Capacity code	HP	44	46	48	50	52	54
Combined units		16 + 14 + 14	18 + 14 + 14	18 + 16 + 14	18 + 18 + 14	18 + 18 + 16	18 + 18 + 18
Cooling capacity	kW	125,00	130,40	135,40	140,80	145,80	151,20
Heating capacity	kW	125,00	130,40	135,40	140,80	145,80	151,20
Connectable indoor units (max.)	Pce.	64	64	64	64	64	64

SHRMe OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-AP2216FT8P-E	MMY-AP2416FT8P-E	MMY-AP2616FT8P-E
Capacity code	HP	22	24	26
Combined units		12 + 10	14 + 10	14 + 12
Cooling capacity	kW	61,50	68,00	73,50
Power consumption (min./nom./max.)	kW	17,71	20,66	22,45
Partial load efficiency @ 80%/60%/40%	W/W	4,4 - 5,7 - 7,5	4,2 - 5,3 - 7,0	4,2 - 5,3 - 6,5
Energy efficiency SEER		5,99	5,81	5,77
Heating capacity	kW	61,50	68,00	73,50
Power consumption (min./nom./max.)	kW	15,75	17,55	19,20
Partial load efficiency @ 80%/60%/40%	W/W	4,7 - 5,3 - 5,6	4,7 - 5,4 - 5,5	4,6 - 5,3 - 5,5
Energy efficiency SCOP		3,63	3,56	3,63
Airflow	m³/h	12200+9700	12200+9700	2x 12200
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A)	63,0	64,0	64,5
Sound pressure level (low/med/high)	dB(A)	65,0	66,0	66,5
Sound power level	dB(A)	83,5	84,0	84,0
Sound power level	dB(A)	85,5	86,0	86,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	316+263	316+263	2x 316
Price	€	35.870,-	36.950,-	42.380,-

OUTDOOR UNIT		MMY-AP2816FT8P-E	MMY-AP3016FT8P-E	MMY-AP3216FT8P-E
Capacity code	HP	28	30	32
Combined units		14 + 14	16 + 14	18 + 14
Cooling capacity	kW	80,00	85,00	90,40
Power consumption (min./nom./max.)	kW	25,40	26,60	27,80
Partial load efficiency @ 80%/60%/40%	W/W	4,0 - 5,1 - 6,3	4,1 - 5,3 - 6,7	4,0 - 5,2 - 6,5
Energy efficiency SEER		5,61	5,67	5,77
Heating capacity	kW	80,00	85,00	90,40
Power consumption (min./nom./max.)	kW	21,00	22,70	24,40
Partial load efficiency @ 80%/60%/40%	W/W	4,7 - 5,3 - 5,4	4,5 - 5,2 - 5,4	4,4 - 5,0 - 5,3
Energy efficiency SCOP		3,57	3,54	3,58
Airflow	m³/h	2x 12200	17300+12200	17300+12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A)	66,5	65,0	65,0
Sound pressure level (low/med/high)	dB(A)	67,5	66,5	66,5
Sound power level	dB(A)	84,5	85,5	85,5
Sound power level	dB(A)	86,5	87,0	87,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 316	377+316	377+316
Price	€	43.460,-	45.340,-	47.080,-

SHRMe OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-AP3416FT8P-E	MMY-AP3616FT8P-E	MMY-AP3816FT8P-E
Capacity code	HP	34	36	38
Combined units		18 + 16	18 + 18	20 + 18
Cooling capacity	kW	95,40	100,80	106,40
Power consumption (min./nom./max.)	kW	29,90	32,00	34,60
Partial load efficiency @ 80%/60%/40%	W/W	4,1 - 5,4 - 6,9	4,4 - 5,6 - 7,3	3,9 - 4,9 - 6,1
Energy efficiency SEER		5,81	5,89	5,76
Heating capacity	kW	95,40	100,80	106,40
Power consumption (min./nom./max.)	kW	25,90	27,40	29,60
Partial load efficiency @ 80%/60%/40%	W/W	4,3 - 4,9 - 5,2	4,3 - 4,8 - 5,2	4,2 - 4,7 - 5,1
Energy efficiency SCOP		3,55	3,59	3,59
Airflow	m³/h	2x 17300	2x 17300	17900 + 17300
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A)	64,5	64,5	64,5
Sound pressure level (low/med/high)	dB(A)	65,5	65,5	65,5
Sound power level	dB(A)	86,5	86,4	86,5
Sound power level	dB(A)	87,5	87,5	87,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 377	2x 377	2x 377
Price	€	48.960,-	50.700,-	51.910,-

OUTDOOR UNIT		MMY-AP4016FT8P-E	MMY-AP4216FT8P-E	MMY-AP4416FT8P-E
Capacity code	HP	40	42	44
Combined units		20 + 20	14 + 14 + 14	16 + 14 + 14
Cooling capacity	kW	112,00	120,00	125,00
Power consumption (min./nom./max.)	kW	37,20	38,10	39,30
Partial load efficiency @ 80%/60%/40%	W/W	3,7 - 4,6 - 5,7	4,0 - 5,1 - 6,3	4,1 - 5,2 - 6,5
Energy efficiency SEER		5,64	5,61	5,65
Heating capacity	kW	112,00	120,00	125,00
Power consumption (min./nom./max.)	kW	31,80	31,50	33,20
Partial load efficiency @ 80%/60%/40%	W/W	4,1 - 4,6 - 5,0	4,7 - 5,3 - 5,4	4,6 - 5,2 - 5,4
Energy efficiency SCOP		3,59	3,57	3,55
Airflow	m³/h	2x 17900	3x 12200	17300 + 12200 + 12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A)	64,5	67,0	66,5
Sound pressure level (low/med/high)	dB(A)	65,5	69,0	68,5
Sound power level	dB(A)	86,5	86,0	87,0
Sound power level	dB(A)	87,5	88,0	88,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 377	3x 316	377+316+316
Price	€	53.120,-	65.190,-	67.070,-

OUTDOOR UNIT		MMY-AP4616FT8P-E	MMY-AP4816FT8P-E	MMY-AP5016FT8P-E
Capacity code	HP	46	48	50
Combined units		18 + 14 + 14	18 + 16 + 14	18 + 18 + 14
Cooling capacity	kW 	130,40	135,40	140,80
Power consumption (min./nom./max.)	kW 	41,40	41,70	43,80
Partial load efficiency @ 80%/60%/40%	W/W 	4,0 - 5,1 - 6,5	4,1 - 5,3 - 6,7	4,0 - 5,2 - 6,6
Energy efficiency SEER		5,72	5,77	5,83
Heating capacity	kW 	130,40	135,40	140,80
Power consumption (min./nom./max.)	kW 	34,70	36,60	38,10
Partial load efficiency @ 80%/60%/40%	W/W 	4,5 - 5,1 - 5,3	4,4 - 5,0 - 5,3	4,4 - 4,9 - 5,2
Energy efficiency SCOP		3,58	3,56	3,59
Airflow	m³/h	17300 + 12200 + 12200	17300 + 17300 + 12200	17300 + 17300 + 12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) 	66,5	66,5	66,5
Sound pressure level (low/med/high)	dB(A) 	68,5	68,0	68,0
Sound power level	dB(A) 	87,0	87,5	87,5
Sound power level	dB(A) 	88,5	88,5	88,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	377+316+316	377+377+316	377+377+316
Price	€	68.810,-	70.690,-	72.430,-

OUTDOOR UNIT		MMY-AP5216FT8P-E	MMY-AP5416FT8P-E
Capacity code	HP	52	54
Combined units		18 + 18 + 16	18 + 18 + 18
Cooling capacity	kW 	145,80	151,20
Power consumption (min./nom./max.)	kW 	45,90	48,00
Partial load efficiency @ 80%/60%/40%	W/W 	4,1 - 5,4 - 6,8	4,4 - 5,7 - 7,2
Energy efficiency SEER		5,84	5,89
Heating capacity	kW 	145,80	151,20
Power consumption (min./nom./max.)	kW 	39,60	41,10
Partial load efficiency @ 80%/60%/40%	W/W 	4,3 - 4,9 - 5,2	4,3 - 4,8 - 5,2
Energy efficiency SCOP		3,56	3,59
Airflow	m³/h	3x 17300	3x 17300
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) 	66,0	66,0
Sound pressure level (low/med/high)	dB(A) 	67,0	67,0
Sound power level	dB(A) 	88,0	88,0
Sound power level	dB(A) 	89,0	89,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 377	3x 377
Price	€	74.310,-	76.050,-

SHRM

SUPER HEAT RECOVERY MULTI
A D V A N C E

The new SHRM Advance is the leading solution for providing heating, cooling, and hot water with the low-GWP R32 refrigerant.

➤ Premium comfort

You can rely on the intelligent VRF control technology for precise management of the refrigerant flow.

➤ Flexibility of installation

Fan unit with available static pressure up to 80 Pa

➤ Super-efficient

Top COP figures for cooling and heating operation

➤ Heat recovery

Energy transfer between cooled and heated zones

➤ Top adaptability

Single modules can be configured for 3-pipe or 2-pipe operation

➤ Easy maintenance

Clever tools for accessing system data via PC or smartphone using NFC.



TOSHIBA twin-rotary compressor with liquid injection technology

The system's key component – the high-efficiency TOSHIBA twin-rotary compressor – was developed to perfectly meet the R32 conditions.



High capacity



Broad operating range



Low-noise and low-vibration



Diamond-like coating



Low refrigerant requirement



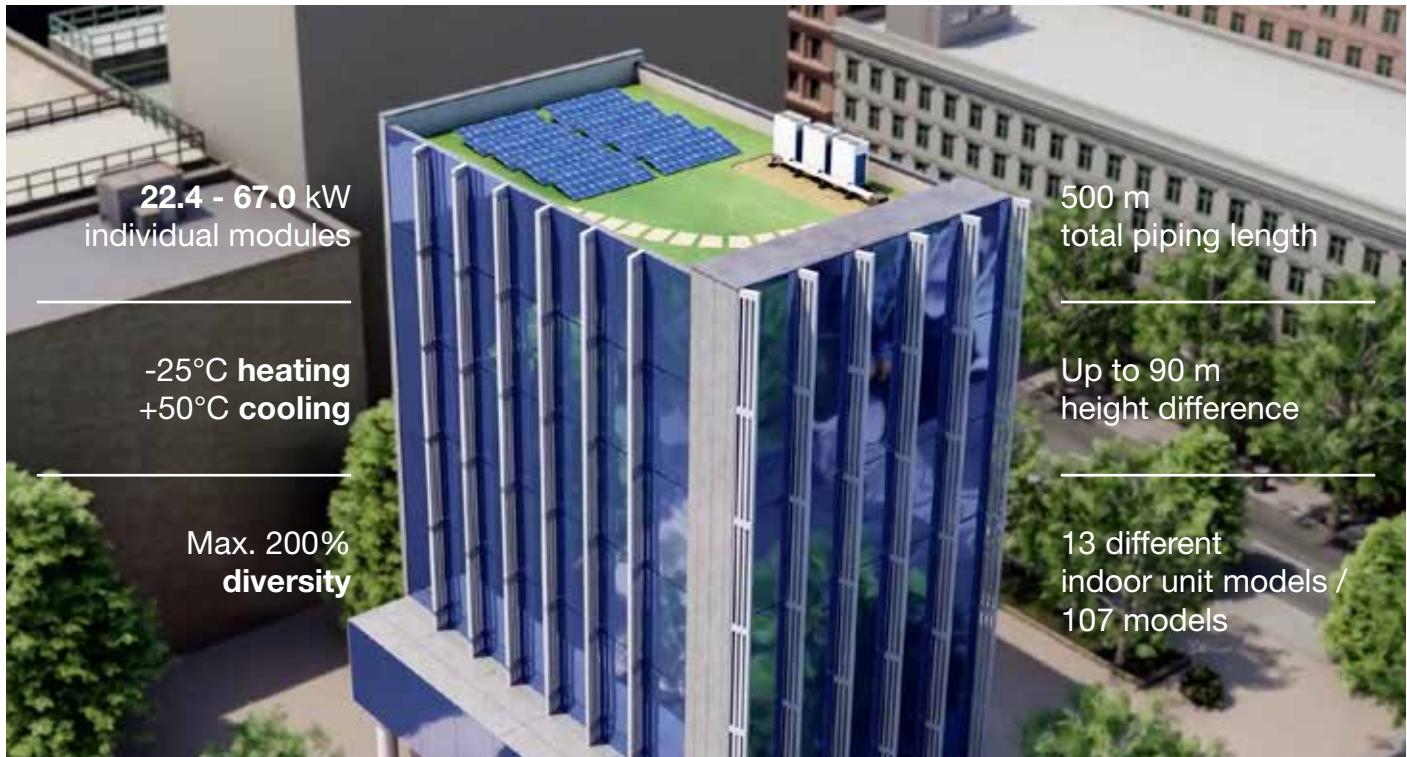
Liquid injection technology





Wide range of applications

At TOSHIBA, products with a low carbon footprint go hand-in-hand with high specification standards. SHRM Advance means maximum project coverage due to outstanding system flexibility.



Large selection of flow boxes

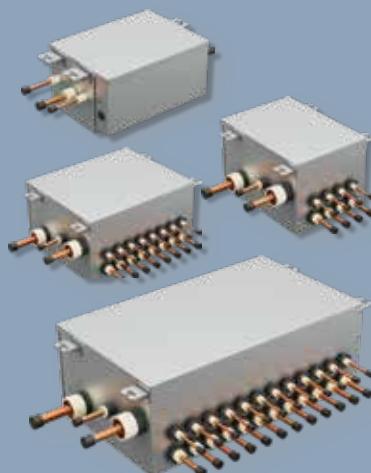
Flexible configuration and simple installation.

Flow boxes with 1, 4, 8, or 12 ports

Up to **10 indoor units** per port

Up to **18 kW** per port

PMV technology



<300 mm height with multi-port boxes

Up to **50 m** piping length

Integrated **Shut-off valves**

TOSHIBA R32 concept



TCB-LD1UPE
Refrigerant leak detector



RBM-Y_1FUxPE
PMV flow boxes with shut-off function for SHRMa 3-pipe operation



RBM-SV_1HUPE
MV box with shut-off function for SHRMa 2-pipe operation



TCB-BT1UPE

Battery kit to guarantee the shut-off function even in the event of a power blackout (according to IEC 60335-2-40)

- The TOSHIBA safety concept was certified by an independent certification body in accordance with the IEC60335-2-40 (Ed.6) standard.

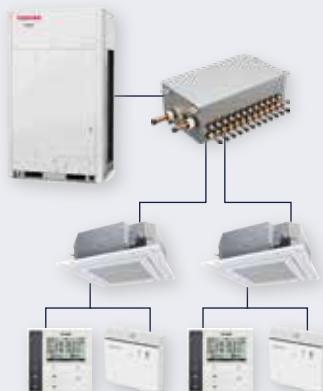
Typical system configuration examples

3-pipe system for large rooms

- 12 lines possible with just one flow box

In the event of a leak:

- Audible & visual alarm on the leak detector concerned
- Error code on remote controls
- Pump-out function is activated



2-pipe system for small individual rooms

- Shut-off box for 1 to 10 units per line

In the event of a leak:

- Audible & visual alarm on the leak detector concerned
- Error code on remote controls
- Pump-down function is activated
- Selective isolation of the affected area



Simple, individually applicable safety concept for each building configuration.

Flow boxes & accessories

Item number	Description	Ports	Max. indoor units
RBM-Y1121FUPE		1	5
RBM-Y1801FUPE	Flow box Single-port	1	10
RBM-Y2801FUPE		1	10
RBM-Y1801FU4PE		4	40
RBM-Y1801FU8PE	Flow box Multi-port	8	80
RBM-Y1801FU12PE		12	120

Item number	Description	
Leak detector TCB-LD1UPE	Stand-alone Power supply via the indoor unit 10 year service life for sensor	
Shut-off box RBM-SV_HUPE	For isolating leaking indoor units from the main refrigerant circuit Only required in 2-pipe operation since all flow boxes contain shut-off valves.	
Battery TCB-BT1UPE	Guarantees the shut-off function even in a power blackout 5-year service life For installation in the flow box or shut-off box	



100% reliable planning due to simple system design with the SELECTION TOOL software

Controls

Wired remote control	Central remote control	Gateways
Standard remote control RBC-ASCU11-E	Comfort Remote control PLUS RBC-AMSU52-E	Central remote control TCB-SC640U-E
		Smart Manager TOUCH BMS-CT2560U-E
		BACnet® gateway BMS-IFBN1280U-E
		Modbus® gateway BMS-IFMB1280U-E

Maximum efficiency

Maximum efficiency is a key component of the TOSHIBA corporate philosophy. SHRM Advance offers considerable energy savings, ensuring a lean carbon footprint. Integrated technology such as liquid injection, twin rotary compressor, large heat exchanger, and intelligent VRF control help to achieve unbeatable energy efficiency in seasonal operation.

HEATING	SCOP	Up to 4.6
	η_{sH}	Up to 183%
COOLING	SCOP	Up to 8.9
	η_{sC}	Up to 353%



The heat recovery that can be achieved in 3-pipe operation by using thermal energy from cooled zones in heated zones contributes to top class overall energy efficiency.



Refrigerant flow boxes - single-port

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1121FUPE	1	< 11,4	6	206 x 385 x 282	11	1.860,-
RBM-Y1801FUPE	1	11,4 - 18,2	10	206 x 385 x 282	11	2.020,-
RBM-Y2801FUPE	1	18,2 - 28,5	16	206 x 385 x 282	11	3.310,-

Refrigerant flow boxes - multi-port

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1801FU4PE	4	< 73,0	4 x 10	293 x 338 x 468	22	4.650,-
RBM-Y1801FU8PE	8	< 109,4	8 x 10	293 x 578 x 468	36	6.880,-
RBM-Y1801FU12PE	12	< 109,4	12 x 10	293 x 818 x 468	50	10.420,-

Shut-off valve kit

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-SV1121HUPE	1	< 11,4	6	206 x 385 x 282	10	1.110,-
RBM-SV1801HUPE	1	11,4 - 18,2	10	206 x 385 x 282	10	1.230,-
RBM-SV6701HUPE	1	18,2 - 68,4/92,3	16	216 x 385 x 282	12	2.220,-
TCB-BT1UPE	Battery kit for shut-off valve and flow box - SHRMa / Mini SMMS R32					
TCB-LD1UPE	Leak detection sensor - SHRMa / Mini SMMS R32					

SHRMa outdoor units

- Stand-alone outdoor units up to 24 HP (67 kW)
- Can be used for R32 refrigerant in 2-pipe or 3-pipe operation
- Comprehensive and simple safety concept
- SEER efficiency values up to 8.9 – SCOP efficiency values up to 4.6
- Controls locally hard-wired or infrared, central and/or via BMS
- Not a stock item – lead time on request



OUTDOOR UNIT		MMY-SUG0801MT8P-E	MMY-SUG1001MT8P-E	MMY-SUG1201MT8P-E	MMY-SUG1401MT8P-E
Capacity code	HP	8	10	12	14
Cooling capacity	kW	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	5,13	6,83	8,88	12,00
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SEER		8,90	8,69	8,23	8,08
Running current	A	9,14	11,50	14,20	18,90
Heating capacity	kW	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	4,96	6,22	7,64	10,30
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-
Energy efficiency SCOP		4,44	4,67	4,62	4,30
Running current	A	8,95	10,60	12,50	16,30
Airflow	m³/h	9900	10500	11700	11880
External static pressure	Pa	80	80	80	80
Sound pressure level (low/med/high)	dB(A)	53	55	58	58
Sound pressure level (low/med/high)	dB(A)	56	58	62	63
Sound power level	dB(A)	74	75	79	79
Sound power level	dB(A)	77	78	82	84
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	15,9 (5/8)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Outdoor temperature operating range (min.-max.)	°C	-15 / +50	-15 / +50	-15 / +50	-15 / +50
Outdoor temperature operating range (min.-max.)	°C	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 20	3x 32	3x 32	3x 32
Pipe length (max.)	m	190	190	190	190
Height difference (max.)	m	40/90	40/90	40/90	40/90
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	6,00	6,00	6,00	6,00
Dimensions (HxWxD)	mm	1690 x 990 x 780			
Weight	kg	232	232	232	232
Price	€	15.360,-	17.190,-	24.000,-	24.480,-

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUS1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 8 to 14 HP chassis	310,-



SHRMa outdoor units

OUTDOOR UNIT		MMY-SUG1601MT8P-E	MMY-SUG1801MT8P-E	MMY-SUG2001MT8P-E	MMY-SUG2201MT8P-E	MMY-SUG2401MT8P-E
Capacity code	HP	16	18	20	22	24
Cooling capacity	KW	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	KW	12,20	14,80	15,50	18,20	24,30
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-	-
Energy efficiency SEER		8,64	8,32	8,29	7,88	6,66
Running current	A	21,10	24,80	25,40	29,20	38,10
Heating capacity	KW	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	KW	11,10	14,00	14,30	16,10	19,50
Partial load efficiency @ 80%/60%/40%	W/W	-	-	-	-	-
Energy efficiency SCOP		4,65	4,49	4,29	4,26	4,04
Running current	A	19,90	23,80	23,60	26,10	30,90
Airflow	m³/h	15300	16800	15900	16500	16800
External static pressure	Pa	80	80	80	80	80
Sound pressure level (low/med/high)	dB(A)	60	61	63	64	64
Sound pressure level (low/med/high)	dB(A)	64	67	67	67	69
Sound power level	dB(A)	83	84	85	86	86
Sound power level	dB(A)	87	89	89	90	91
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Liquid pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Outdoor temperature operating range (min.-max.)	°C	-15 / +50	-15 / +50	-15 / +50	-15 / +50	-15 / +50
Outdoor temperature operating range (min.-max.)	°C	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 40	3x 40	3x 50	3x 63	3x 63
Pipe length (max.)	m	190	190	190	190	190
Height difference (max.)	m	40/90	40/90	40/90	40/90	40/90
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	9,00	9,00	9,00	9,00	9,00
Dimensions (HxWxD)	mm	1690 x 1290 x 780				
Weight	kg	329	329	361	361	361
Price	€	26.790,-	28.320,-	30.530,-	32.450,-	34.850,-

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUM1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 16 to 24 HP chassis	350,-

Current Consumption + Fusing

TYPE	Running current (max.)	Running current (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW	kW	A	V/Ph+N/Hz		
SMMS								
MMY-MUP0801HT8P-E	17	9,20 / 8,60	5,64	5,28	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MUP1001HT8P-E	23	13,40 / 11,50	8,36	7,20	3x 25	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MUP1201HT8P-E	27	16,00 / 12,10	10,34	7,77	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1401HT8P-E	31	22,60 / 15,50	14,55	10,00	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1601HT8P-E	34	21,60 / 18,30	14,06	11,94	3x 40	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1801HT8P-E	38	24,40 / 19,30	15,90	12,54	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP2001HT8P-E	40	27,70 / 22,90	18,01	14,93	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP2201HT8P-E	57	31,40 / 24,80	20,43	16,18	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
MMY-MUP2401HT8P-E1	60	37,10 / 29,10	24,19	18,98	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
MINI SMMS R32								
MCY-MUG0401HSW-E	-	-	2,92	2,38	25	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MUG0501HSW-E	-	-	3,73	2,95	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MUG0601HSW-E	-	-	4,29	3,36	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MINI SMMS Single Fan								
MCY-MHP0406HT-E	26,5	13,80 / 12,80	3,24	2,83	32	220-240/1+N/50	H07RN-F 3G2,5	YSLCY 2x1,5
MCY-MHP0506HT-E1	28,0	17,90 / 17,50	3,94	3,86	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MINI SMMSe 1-phase								
MCY-MHP0404HS-E	23,5	13,00 / 12,00	2,83	2,59	25	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MHP0504HS-E	26,5	15,90 / 17,00	3,50	3,75	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MHP0604HS-E	28,0	19,20 / 19,30	4,29	4,31	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MINI SMMSe 3-phase								
MCY-MHP0404HS8-E	12,5	4,50 / 4,20	2,82	2,57	3x 16	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP0504HS8-E	12,5	5,40 / 5,80	3,47	3,72	3x 16	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP0604HS8-E	12,5	6,70 / 6,60	4,25	4,27	3x 16	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP0806HS8-E	-	10,60 / 8,20	6,67	5,20	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP1006HS8-E	-	14,50 / 10,90	9,34	7,00	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
SHRME								
MMY-MAP0806FT8P-E	21,5	9,44 / 8,57	5,96	5,40	3x 25	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MAP1006FT8P-E	26,1	12,49 / 11,06	7,98	7,05	3x 25	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MAP1206FT8P-E	31,0	15,46 / 13,80	9,77	8,70	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MAP1406FT8P-E	35,8	19,92 / 16,47	12,74	10,50	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP1606FT8P-E	40,7	21,81 / 19,14	13,93	12,20	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP1806FT8P-E	44,9	25,10 / 21,49	16,00	13,73	3x 50	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP2006FT8P-E	49,3	29,18 / 24,68	18,60	15,91	3x 50	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
SHRMA								
MMY-SUG0801MT8P-E	-	-	5,13	4,96	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-SUG1001MT8P-E	-	-	6,83	6,22	3x 32	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-SUG1201MT8P-E	-	-	8,88	7,64	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1401MT8P-E	-	-	12,00	10,30	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1601MT8P-E	-	-	12,20	11,10	3x 40	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1801MT8P-E	-	-	14,80	14,00	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG2001MT8P-E	-	-	15,50	14,30	3x 50	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG2201MT8P-E	-	-	18,20	16,10	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
MMY-SUG2401MT8P-E	-	-	24,30	19,50	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5

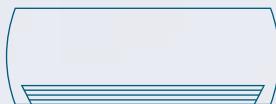
Sound Power Level / Sound Pressure

TYPE	Sound power level	Sound power level	Sound power level (night operation) / Heating capacity	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Sound pressure level (night operation, @ 1m)
	dB(A)	dB(A)	dB(A) /kW	dB(A)	dB(A)	dB(A)
SMMSu						
MMY-MUP0801HT8P-E	75	76	-	53	56	50
MMY-MUP1001HT8P-E	77	77	-	55	58	50
MMY-MUP1201HT8P-E	79	81	-	58	62	50
MMY-MUP1401HT8P-E	79	82	-	58	62	53
MMY-MUP1601HT8P-E	83	86	-	60	63	53
MMY-MUP1801HT8P-E	84	89	-	61	67	54
MMY-MUP2001HT8P-E	86	90	-	63	67	54
MMY-MUP2201HT8P-E	86	90	-	63	67	54
MMY-MUP2401HT8P-E1	86	90	-	63	67	54
MiNi SMMS R32						
MCY-MUG0401HSW-E	69	52	-	71	54	-
MCY-MUG0501HSW-E	70	53	-	72	55	-
MCY-MUG0601HSW-E	71	54	-	73	56	-
MiNi SMMS Single Fan						
MCY-MHP0406HT-E	73,0	74,0	-	54	57	50 / 50
MCY-MHP0506HT-E1	73,0	73,0	-	54	58	50 / 50
MiNi SMMSe 1-phase						
MCY-MHP0404HS-E	66	69	62 / 65	49	52	46 / 48
MCY-MHP0504HS-E	68	70	62 / 65	50	53	46 / 48
MCY-MHP0604HS-E	68	71	65 / 65	51	54	47 / 49
MiNi SMMSe 3-phase						
MCY-MHP0404HS8-E	66,0	67,0	62 / 65	49	52	46 / 48
MCY-MHP0504HS8-E	68,0	69,0	62 / 65	50	53	46 / 48
MCY-MHP0604HS8-E	68,0	70,0	65 / 65	51	54	47 / 49
MCY-MHP0806HS8-E	75	75	67 / 67	58	59	50 / 50
MCY-MHP1006HS8-E	77	77	67 / 67	59	60	50 / 50
SHRMe						
MMY-MAP0806FT8P-E	80,0	82,0	-	59	61	50 / 50
MMY-MAP1006FT8P-E	80,0	82,0	-	59	61	50 / 50
MMY-MAP1206FT8P-E	80,0	82,0	-	60	62	53 / 53
MMY-MAP1406FT8P-E	81,0	83,0	-	62	64	53 / 53
MMY-MAP1606FT8P-E	83,0	84,0	-	61	62	54 / 54
MMY-MAP1806FT8P-E	83,0	84,0	-	61	62	54 / 54
MMY-MAP2006FT8P-E	83,0	84,0	-	61	62	54 / 54
SHRMa						
MMY-SUG0801MT8P-E	74	77	-	53	56	-
MMY-SUG1001MT8P-E	75	78	-	55	58	-
MMY-SUG1201MT8P-E	79	82	-	58	62	-
MMY-SUG1401MT8P-E	79	84	-	58	63	-
MMY-SUG1601MT8P-E	83	87	-	60	64	-
MMY-SUG1801MT8P-E	84	89	-	61	67	-
MMY-SUG2001MT8P-E	85	89	-	63	67	-
MMY-SUG2201MT8P-E	86	90	-	64	67	-
MMY-SUG2401MT8P-E	86	91	-	64	69	-

Sound pressure for night operation: with noise reduction module, see external control options.

OVERVIEW OF VRF INDOOR UNITS

HIGH-WALL UNITS



HAORI HIGH-WALL UNIT

Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6

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HIGH-WALL UNIT

Cooling capacity (kW): 0.9 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 |
5.6 | 7.1 | 8.0 | 9.0 | 10.0

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CEILING UNITS

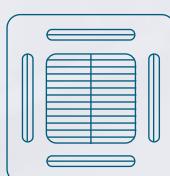


CEILING UNIT

Cooling capacity (kW): 4.5 | 5.6 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0

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CASSETTE UNITS



60x60 SLIM CASSETTE

Cooling capacity (kW): 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6

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4-WAY STANDARD CASSETTE

Cooling capacity (kW): 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |
9.0 | 11.2 | 14.0 | 16.0

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4-WAY SMART CASSETTE

Cooling capacity (kW): 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |
9.0 | 11.2 | 14.0 | 16.0

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2-WAY CASSETTE

Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |
9.0 | 11.2 | 14.0 | 16.0

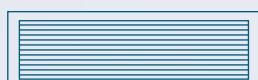
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1-WAY FLAT CASSETTE

Cooling capacity (kW): 0.9 | 1.7 | 2.2 | 2.8 | 3.6

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DUCT UNITS



STANDARD DUCT UNIT

Cooling capacity (kW): 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0

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SSD SUPER-SLIM DUCT UNIT

Cooling capacity (kW): 0.9 | 1.7 | 2.2 | 2.8 | 3.6 |
4.5 | 5.6 | 7.1 | 8.0

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**HIGH-PRESSURE DUCT UNIT**

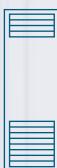
Cooling capacity (kW): 5.6 | 7.1 | 8.0 | 11.2 |
14.0 | 16.0 | 22.4 | 28.0

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**FRESH-AIR DUCT UNIT SMMSu**

Cooling capacity (kW): 14.0 | 22.4 | 28.0

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FLOOR STANDING UNITS**CONSOLE**

Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6

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CHASSIS

Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1

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FLOOR STANDING UNIT

Cooling capacity (kW): 4.5 | 5.6 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0

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SPECIAL SOLUTIONS**DIRECT EXPANSION KIT
TEMPERATURE-CONTROLLED EXHAUST AIR**

Cooling capacity (kW): 4.5 – 28.0
For MiNi SMMSe 4, 5, 6 HP, all SMMSu

Page 186

DX-KIT 0 – 10 V CAPACITY CONTROL

Cooling capacity (kW): 16.0 | 22.4 | 28.0
For SMMSu 8 HP + 10 HP exclusive

Page 186

DIRECT EXPANSION KIT NEXT

Cooling capacity (kW): up to 56.0
For all SMMSu

Page 188

**AIR HANDLING SYSTEMS
WITH HEAT RECOVERY**

Heating capacity (kW): 4.1 | 6.5 | 8.2
For MiNi SMMSe 4, 5, 6 HP, SMMSu, SHRMe

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HOT WATER MODULE MT (2&3-PIPE)

Cooling capacity (kW): 8.0 | 16.0
For SMMSu, SHRMe

Page 196

HOT WATER MODULE HT (3-PIPE)

Cooling capacity (kW): 14.0
For SHRMe

Page 197

HAORI high-wall unit

- DESIGN Line with innovative textile cover
- Dust filter, ozone air purifier, and ultra pure filter
- Perfect for noise-sensitive applications
- Must ALWAYS be installed in conjunction with the PMV kit.

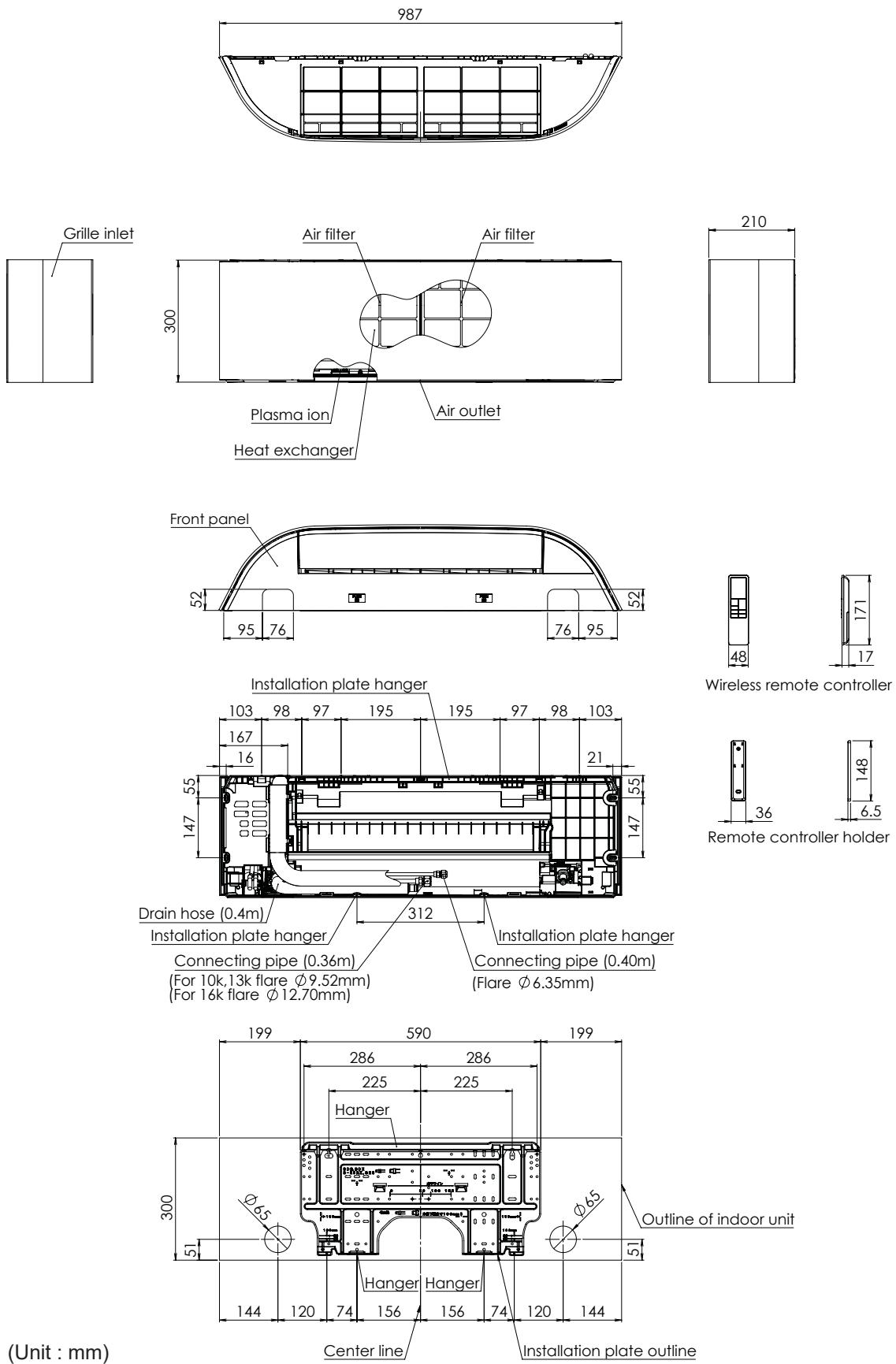


INDOOR UNIT		MMK-UP0071DHPL-E	MMK-UP0091DHPL-E	MMK-UP0121DHPL-E	MMK-UP0151DHPL-E	MMK-UP0181DHPL-E
Cooling capacity	kW	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	300/385/ 480	300/395/ 510	300/410/ 540	380/480/ 580	420/600/ 730
Sound pressure level (low/med/high)	dB(A)	25/28/ 30/33/ 35	25/28/ 31/34/ 36	25/28/ 32/35/ 37	30/33/ 35/38/ 40	32/36/ 39/42/ 45
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,018	0,019	0,021	0,025	0,032
Dimensions (HxWxD)	mm	300 x 987 x 210				
Weight	kg	11	11	11	11	11
Price	€	1.100,-	1.120,-	1.140,-	1.280,-	1.310,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	✓	
RBM-PMV0361UP-E	PMV kit for indoor units, up to size 12		270,-
RBM-PMV0901UP-E	PMV kit for indoor units, size 15 or larger		280,-
RB-I4101-E	Fabric cover Dark Gray enclosed	✓	
RB-I4102-E	Fabric cover Light Gray enclosed	✓	
RB-I4103-E	Fabric cover Bluish Gray		125,-
RB-I4104-E	Fabric cover Gray Beige		125,-
RB-I4105-E	Fabric cover Dark Brown		125,-
RB-I4106-E	Fabric cover Emerald Blue		125,-
818F0023	Active carbon-catechin filter strips		33,-
818F0036	IAQ filter strips		52,-
818F0050	Ultra-pure 2.5 filter strips	✓	
818F0072	Ultra-Fresh filter strips		36,-

You will find all the control options from page 203 onwards.

HAORI HIGH-WALL UNIT



High-wall unit

- Compact allrounder for all uses
- Whisper-quiet 5-speed fan – up to 25 dB(A)



INDOOR UNIT		MMK-UP0031HP-E	MMK-UP0051HP-E	MMK-UP0071HP-E	MMK-UP0091HP-E	MMK-UP0121HP-E	MMK-UP0151HP-E
Cooling capacity	kW	0,90	1,70	2,20	2,80	3,60	4,50
Heating capacity	kW	1,30	1,90	2,50	3,20	4,00	5,00
Airflow	m³/h	270/370/ 455	270/370/ 455	270/385/ 480	270/395/ 510	270/410/ 540	550/690/ 840
Sound pressure level (low/med/high)	dB(A)	25/29/33	25/29/33	25/30/35	25/31/36	25/32/37	32/36/40
Liquid pipe diameter	mm (inch)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (1/2)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,013	0,013	0,015	0,016	0,017	0,028
Dimensions (HxWxD)	mm	293 x 798 x 230	320 x 1050 x 250				
Weight	kg	11	11,0	11,0	11,0	11,0	16,0
Price	€	990,-	1.020,-	1.050,-	1.060,-	1.070,-	1.180,-

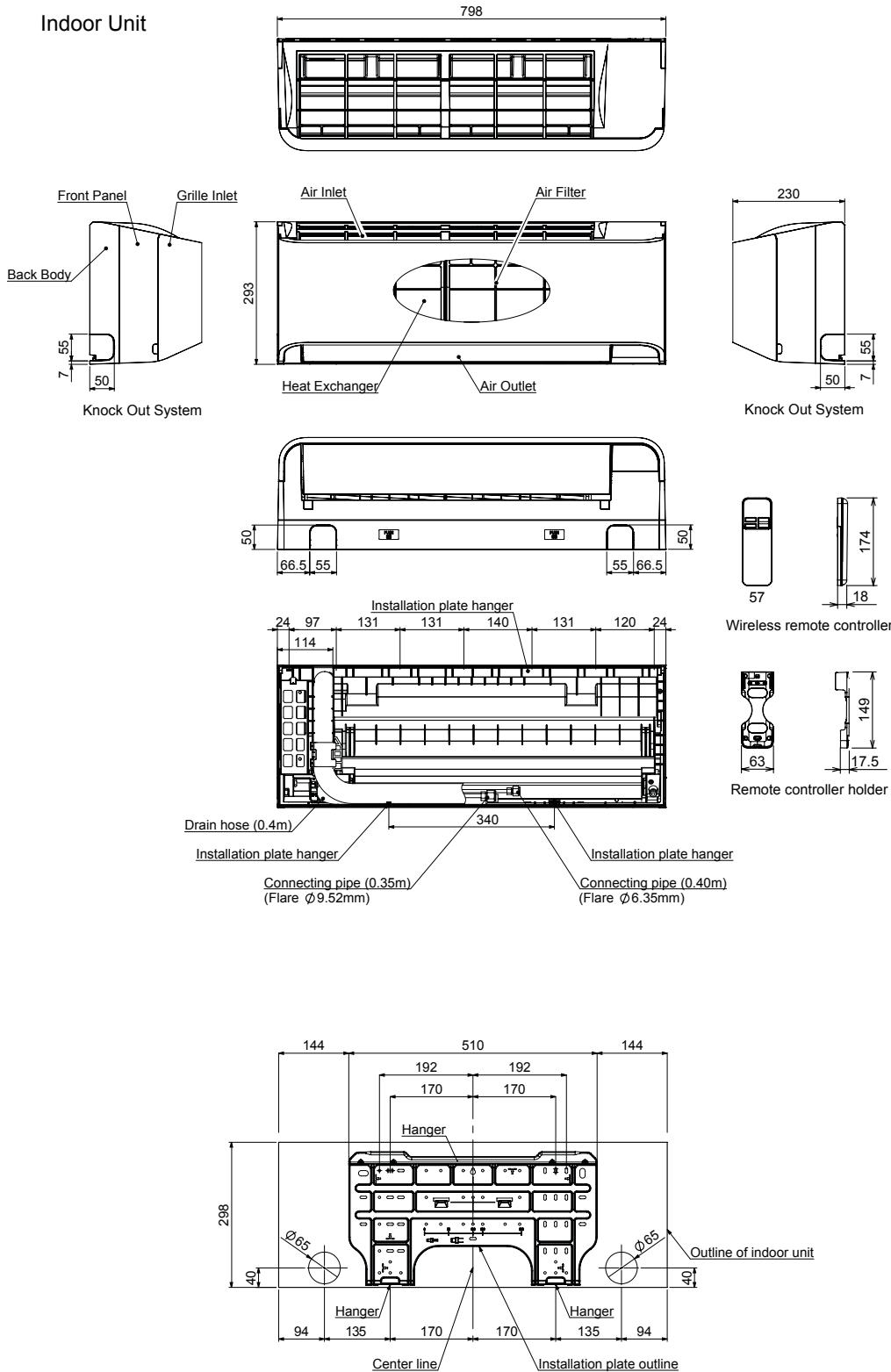
INDOOR UNIT		MMK-UP0181HP-E	MMK-UP0241HP-E	MMK-UP0271HP-E	MMK-UP0301HP-E	MMK-UP0361HP-E
Cooling capacity	kW	5,60	7,10	8,00	9,00	10,00
Heating capacity	kW	6,30	8,00	9,00	10,00	11,20
Airflow	m³/h	550/720/ 900	600/900/ 1200	800/1000/ 1200	1100/1300/ 1500	1250/1350/ 1650
Sound pressure level (low/med/high)	dB(A)	32/37/41	33/39/45	39/41/45	41/44/48	43/45/50
Liquid pipe diameter	mm (inch)	6,4 (1/4)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (1/2)	15,9 (5/8)	15,8 (5/8)	15,8 (5/8)	15,8 (5/8)
Condensate pipe diameter	mm	VP16	VP16	16	16	16
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,032	0,050	0,034	0,054	0,066
Dimensions (HxWxD)	mm	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	350 x 1200 x 280	350 x 1200 x 280
Weight	kg	16,0	16,0	21	21	21
Price	€	1.210,-	1.220,-	1.450,-	1.520,-	1.600,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
818F0036	IAQ filter strips		52,-
818F0023	Active carbon-catechin filter strips		33,-
818F0072	Ultra-Fresh filter strips		36,-

You will find all the control options from page 203 onwards.

HIGH-WALL UNIT

Indoor Unit



High-wall unit with external PMV kit

- Especially for noise-sensitive applications
- Must ALWAYS be installed in conjunction with the PMV kit.
- Not a stock item – lead time on request



INDOOR UNIT		MMK-UP0031HPL-E	MMK-UP0051HPL-E	MMK-UP0071HPL-E	MMK-UP0091HPL-E
Cooling capacity	kW	0,90	1,70	2,20	2,80
Heating capacity	kW	1,30	1,90	2,50	3,20
Airflow	m³/h	270/370/455	270/370/455	270/385/480	270/395/510
Sound pressure level (low/med/high)	dB(A)	25/29/33	25/29/33	25/30/35	25/31/36
Liquid pipe diameter	mm (inch)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW	0,013	0,013	0,015	0,016
Dimensions (HxWxD)	mm	293 x 798 x 230			
Weight	kg	11	11,0	11,0	11,0
Price	€	860,-	900,-	920,-	940,-

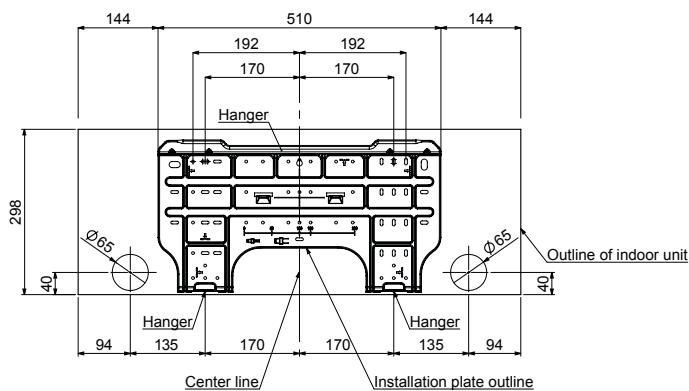
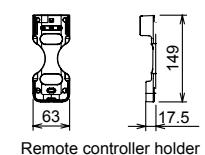
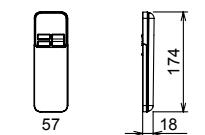
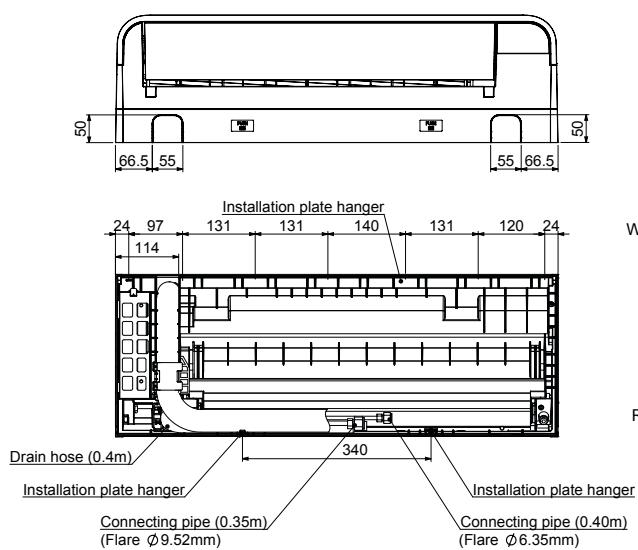
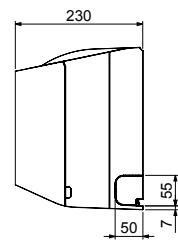
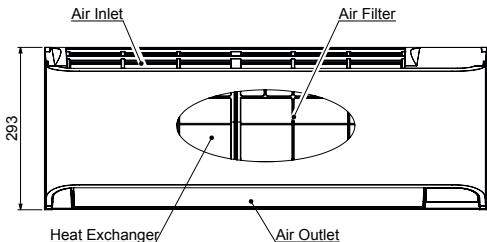
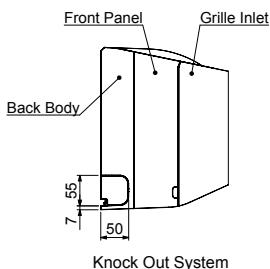
INDOOR UNIT		MMK-UP0121HPL-E	MMK-UP0151HPL-E	MMK-UP0181HPL-E	MMK-UP0241HPL-E
Cooling capacity	kW	3,60	4,50	5,60	7,10
Heating capacity	kW	4,00	5,00	6,30	8,00
Airflow	m³/h	270/410/540	550/690/840	550/720/900	600/900/1200
Sound pressure level (low/med/high)	dB(A)	25/32/37	32/36/40	32/37/41	33/39/45
Liquid pipe diameter	mm (inch)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (1/2)	12,7 (1/2)	15,9 (5/8)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW	0,017	0,028	0,032	0,050
Dimensions (HxWxD)	mm	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250
Weight	kg	11,0	16,0	16,0	16,0
Price	€	950,-	1.060,-	1.080,-	1.100,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RBM-PMV0361U-E	PMV kit for indoor units, sizes 5 to 14 (SMMSu)		315,-
RBM-PMV0901U-E	PMV kit for indoor units, sizes 15 to 27 (SMMSu)		360,-
818F0036	IAQ filter strips		52,-
818F0023	Active carbon-catechin filter strips		33,-
818F0072	Ultra-Fresh filter strips		36,-

You will find all the control options from page 203 onwards.

HIGH-WALL UNIT

Indoor Unit



Ceiling unit

- Attractive design for optimum air distribution
- Optional PCB for external control, alarms, and messages
- Large air throw distances

R410A
R32

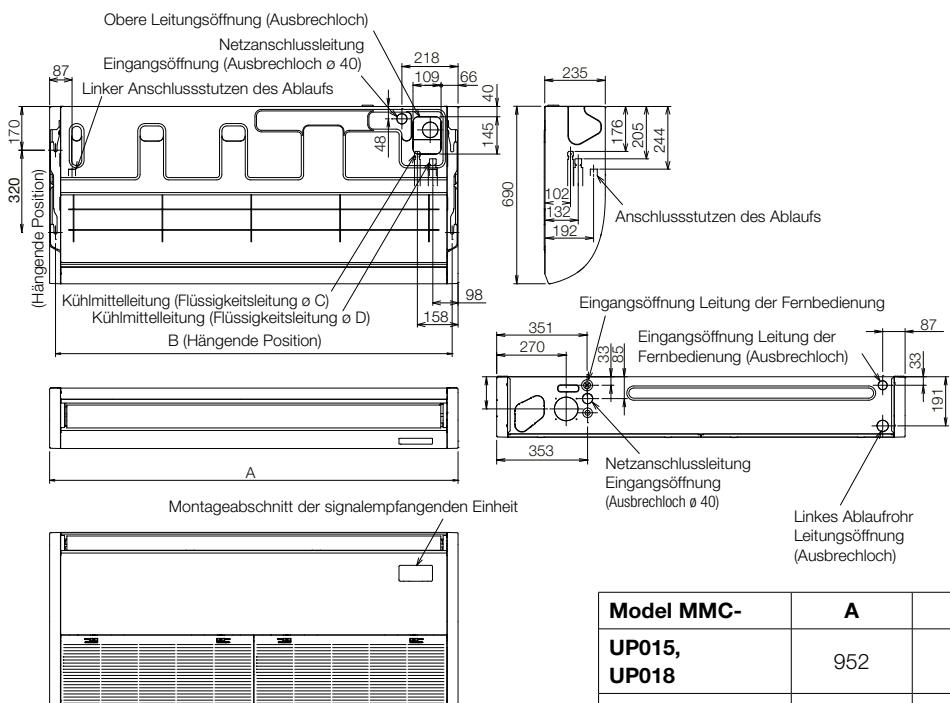


INDOOR UNIT		MMC-UP0151HP-E	MMC-UP0181HP-E	MMC-UP0241HP-E	MMC-UP0271HP-E	MMC-UP0361HP-E	MMC-UP0481HP-E	MMC-UP0561HP-E
Cooling capacity	kW	4,50	5,60	7,10	8,00	11,20	14,00	16,00
Heating capacity	kW	5,00	6,30	8,00	9,00	12,50	16,00	18,00
Airflow	m³/h	540/690/ 840	540/720/ 960	750/1020/ 1440	750/1020/ 1440	1020/1350/ 1860	1200/1530/ 1860	1260/1650/ 2040
Sound pressure level (low/med/high)	dB(A)	28/34/36	28/35/37	29/36/41	29/36/41	32/38/44	35/41/44	36/42/46
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)						
Power supply	V/Ph+N/Hz	220-240/1+N/ 50						
Power consumption (min./nom./max.)	kW	0,033	0,034	0,067	0,067	0,083	0,083	0,111
Dimensions (HxWxD)	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	24	24	30	30	39	39	39
Price	€	1.700,-	1.780,-	1.880,-	2.020,-	2.220,-	2.480,-	2.600,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP31CE	Drain pump, discharge head 600 mm, measured from lower edge of unit	440,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-
TCB-KP14CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	120,-
TCB-KP24CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	150,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 203 onwards.

CEILING UNIT



Model MMC-	A	B	C	D
UP015, UP018	952	906	Ø 6.4	Ø 12.7
UP024, UP027	1269	1223		
UP036 to UP056	1586	1540	Ø 9.5	Ø 15.9

60x60 slim cassette



- 360° air distribution in the Euro-grid with installation height of just 256 mm
- Enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
 - Accessories required: remote control + panel

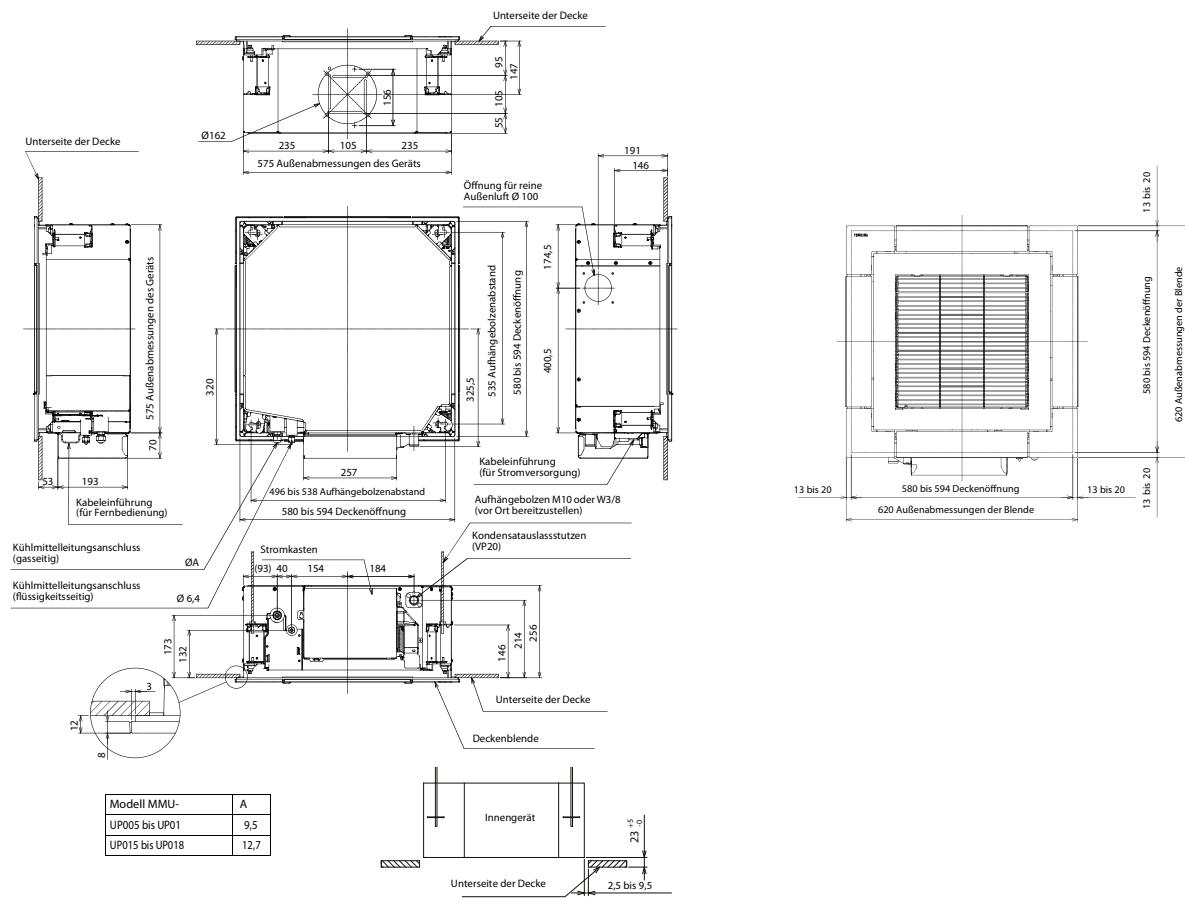


INDOOR UNIT		MMU-UP0051MH-E	MMU-UP0071MH-E	MMU-UP0091MH-E	MMU-UP0121MH-E	MMU-UP0151MH-E	MMU-UP0181MH-E
Cooling capacity	kW 	1,70	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW 	1,90	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	365/430	378/552	378/570	402/594	468/660	522/840
Sound pressure level (low/med/high)	dB(A) 	29/30/32	29/33/37	29/33/38	30/34/38	31/35/40	34/39/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP20 (20/26)					
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW 	0,016	0,023	0,025	0,027	0,030	0,052
Dimensions (HxWxD)	mm	256 x 575 x 575					
Weight	kg	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5
Panel dimensions (HxWxD)	mm	12 x 620 x 620					
Panel weight	kg	2,5	2,5	2,5	2,5	2,5	2,5
Price	€	1.465,-	1.515,-	1.650,-	1.710,-	1.805,-	1.870,-

ACCESSORIES	DESCRIPTION	PRICE
RBC-UM21PG(W)-E	Panel for 60x60 slim cassette	440,-
RBC-AXU31UM-E	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	180,-
TCB-SIR41UM-E	Occupancy sensor kit for installation in 60x60 slim cassette	130,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-

You will find all the control options from page 203 onwards.

60x60 SLIM CASSETTE



60x60 slim cassette

- > 360° air distribution in the Euro-grid – compact & quiet, with high airflow
- > Update of the classic with optional BLACK or WHITE design panel
- > Enhanced energy savings via presence sensor option (for WHITE panel)
- > Integrated drain pump (850 mm); prepared for external fresh air supply
- > Accessories required: remote control + panel

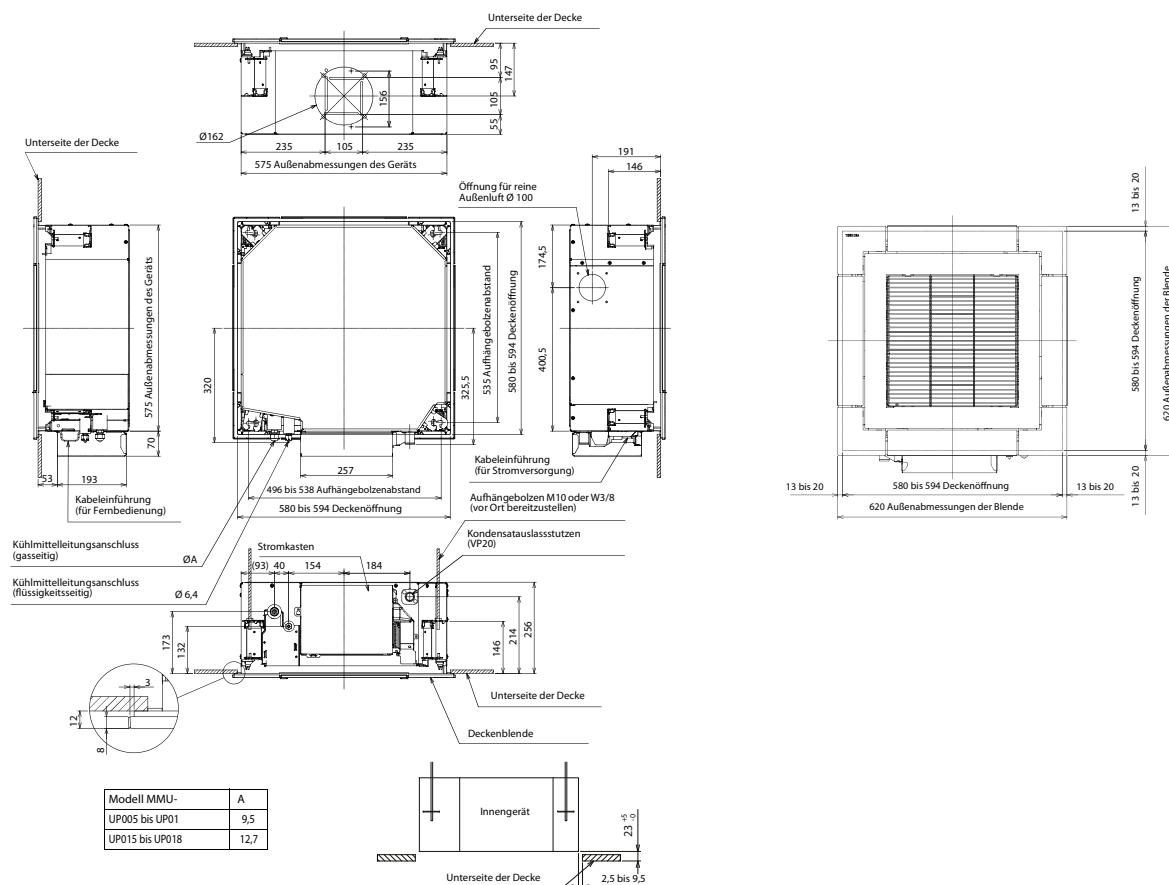


INDOOR UNIT		MMU-UP0051MHP-E	MMU-UP0071MHP-E	MMU-UP0091MHP-E	MMU-UP0121MHP-E	MMU-UP0151MHP-E	MMU-UP0181MHP-E
Cooling capacity	kW	1,70	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW	1,90	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	365/430	378/552	378/570	402/594	468/660	522/840
Sound pressure level (low/med/high)	dB(A)	29/30/32	29/33/37	29/33/38	30/34/38	31/35/40	34/39/47
Liquid pipe diameter	mm (inch)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (1/2)	12,7 (1/2)
Condensate pipe diameter	mm	VP20 (20/26)					
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW	0,016	0,023	0,025	0,027	0,030	0,052
Dimensions (HxWxD)	mm	256 x 575 x 575					
Weight	kg	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5
Panel dimensions (HxWxD)	mm	12 x 620 x 620					
Panel weight	kg	2,5	2,5	2,5	2,5	2,5	2,5
Price	€	1.350,-	1.400,-	1.520,-	1.580,-	1.660,-	1.720,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21P-E	Panel WHITE for 60x60 slim cassette b/w	410,-
RBC-UM21PB-E	Panel BLACK for 60x60 slim cassette b/w	430,-
RBC-AXU31UMP-E	Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette b/w	170,-
RBC-AXU31UMPB-E	Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette b/w	190,-
TCB-SIR41UMP-E	Occupancy sensor kit WHITE for installation in 60x60 slim cassette b/w	120,-

You will find all the control options from page 203 onwards.

60x60 SLIM CASSETTE





4-way standard cassette

- 360° air distribution or direct air flow
- Individually adjustable, draft-free air distribution
- Integrated drain pump (850 mm); prepared for external fresh air supply
- Accessories required: remote control + panel



INDOOR UNIT		MMU-UP0091HP-E	MMU-UP0121HP-E	MMU-UP0151HP-E	MMU-UP0181HP-E	MMU-UP0241HP-E
Cooling capacity	kW	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	680/730/ 800	680/730/ 800	790/830/ 930	800/920/ 1250	800/920/ 1290
Sound pressure level (low/med/high)	dB(A)	27/29/30	30/29/27	27/29/31	27/29/32	28/31/35
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)				
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,021	0,021	0,023	0,026	0,036
Dimensions (HxWxD)	mm	256 x 840 x 840				
Weight	kg	18	18	20	20	20
Panel dimensions (HxWxD)	mm	30 x 950 x 950				
Panel weight	kg	4	4	4	4	4
Price	€	1.520,-	1.560,-	1.630,-	1.680,-	1.750,-

INDOOR UNIT		MMU-UP0271HP-E	MMU-UP0301HP-E	MMU-UP0361HP-E	MMU-UP0481HP-E	MMU-UP0561HP-E
Cooling capacity	kW	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	800/920/ 1290	850/1100/ 1320	1070/1430/ 1970	1130/1430/ 2130	1230/1520/ 2130
Sound pressure level (low/med/high)	dB(A)	28/31/35	38/33/30	32/38/43	33/38/46	33/40/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)				
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,036	0,043	0,088	0,112	0,112
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950				
Panel weight	kg	4	4	4	4	4
Price	€	1.850,-	1.950,-	2.280,-	2.520,-	2.620,-

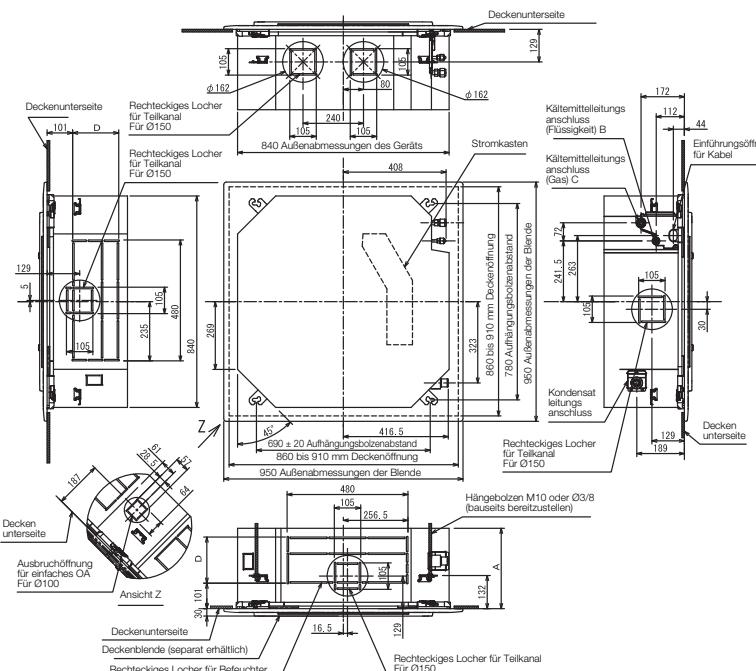
ACCESSORIES	DESCRIPTION	PRICE €
RBC-U32PGP-E	Panel for wide airflow (SMMS-u)	360,-
RBC-U33P-E	FLAT Panel - pure white, for 4-way standard cassette	360,-
RBC-AXU33UP-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, WHITE	215,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-
TCB-PLFC1UPE	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E, RBC-U33PB-E	20,-
TCB-SIR33UP-E	Occupancy sensor kit for installation in FLAT Panel	125,-
TCB-EAPC1UHP-E	PURE Plasmafilter kit for installation in FLAT Panel 4-way standard cassette	1.490,-

BLACK

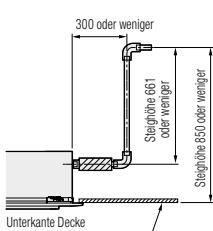
RBC-U33PB-E	FLAT panel - BLACK, for 4-way standard cassette	380,-
RBC-AXU33UPB-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK	235,-

You will find all the control options from page 203 onwards.

4-WAY STANDARD CASSETTE

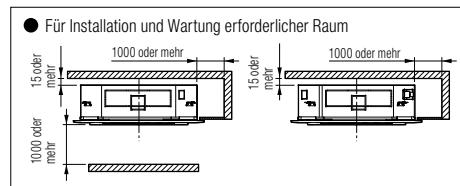


(mm)									
Modell MMU-	A	B	C	D	Modell MMU-	A	B	C	D
UP/AP009 bis UP/AP012	256	Ø6,4	Ø9,5	120	UP/AP024 bis UP/AP030	256	Ø9,5	Ø15,9	120
UP/AP015 bis UP/AP018	256	Ø6,4	Ø12,7	120	UP/AP036 bis UP/AP056	319	Ø9,5	Ø15,9	183



Dimension Ablauf-Steigrohr

* Abbildung zeigt Paneel RBC-U31PGP(W)-E



(Einheit: mm)



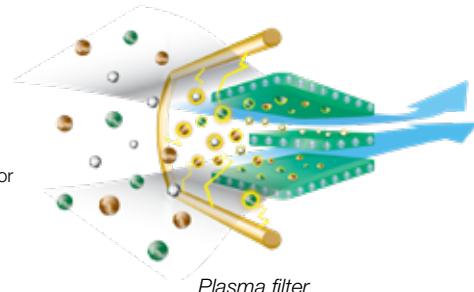
**Panel RBC-U32PGP-E(W)-E
for SMMSu**

The special shape of the fins guarantees perfect air distribution in a 360° radius around the unit.

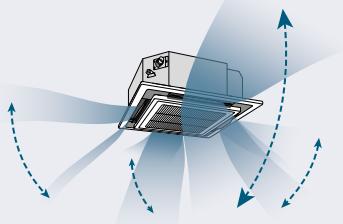


Panel RBC-U33P-E (white) / RBC-U33PB-E (black)

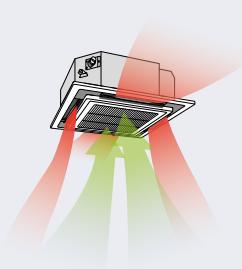
Flat design panel with optional plasma filter and presence sensor



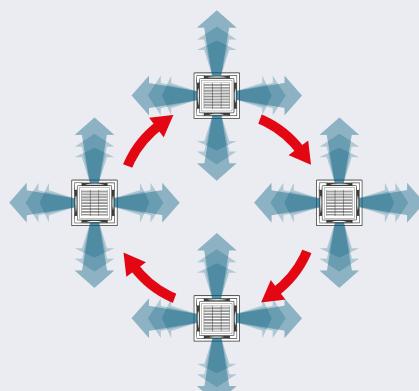
1) Standard oscillation



2) Diametrically opposed oscillation



3) All-round alternating oscillation



4-way SMART cassette

- 4-way high-efficiency design for large capacities
- Enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
- Not a stock item – lead time on request
- Accessories required: remote control + panel



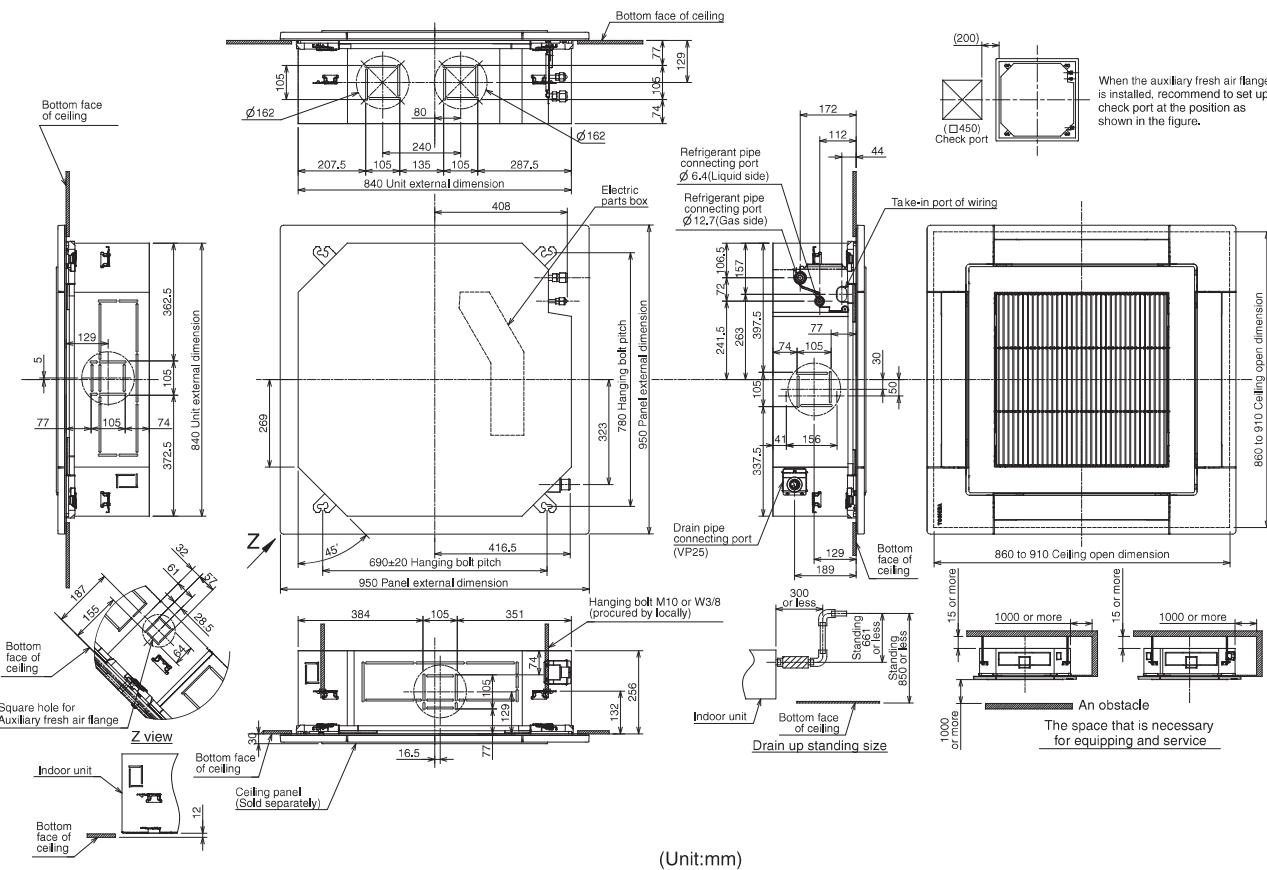
INDOOR UNIT		MMU-UP0091H-E	MMU-UP0121H-E	MMU-UP0151H-E	MMU-UP0181H-E	MMU-UP0241H-E
Cooling capacity	kW	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	708/738/ 768/792/ 846	708/738/ 768/792/ 846	800/860/ 920/960/ 1060	940/1040/ 1100/1160/ 1260	1120/1210/ 1300/1440/ 1580
Sound pressure level (low/med/high)	dB(A)	26/28/30	26/28/30	28/30/32	31/33/36	35/37/41
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	25	25	25	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,02	0,02	0,018	0,026	0,042
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	18	18	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	5,0	5,0	5,0	5,0	5,0
Price	€	2.015,-	2.205,-	2.465,-	2.625,-	2.730,-

INDOOR UNIT		MMU-UP0271H-E	MMU-UP0301H-E	MMU-UP0361H-E	MMU-UP0481H-E	MMU-UP0561H-E
Cooling capacity	kW	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	1250/1320/ 1380/1590/ 1770	1400/1450/ 1520/1770/ 1940	1260/1356/ 1596/1848/ 2184	1368/1470/ 1740/1998/ 2262	1404/1512/ 1782/2034/ 2262
Sound pressure level (low/med/high)	dB(A)	35/37/42	37/39/44	32/38/45	33/39/46	35/40/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	25	25	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,054	0,068	0,125	0,135	0,137
Dimensions (HxWxD)	mm	319 x 840 x 840				
Weight	kg	25	25	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950				
Panel weight	kg	5,0	5,0	5,0	5,0	5,0
Price	€	2.775,-	2.855,-	2.960,-	3.120,-	3.365,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U41PG(W)-E	Panel for smart cassette	430,-
RBC-AXU41U-E	Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	315,-
TCB-SIR41U-E	Occupancy sensor kit for installation in smart cassette	130,-
TCB-GFC1603UE	Fresh air filter	290,-
TCB-SP1603UE	Spacer frame for lowering the panel by 70 mm	230,-
TCB-BC1603UE	Air discharge direction kit for blocking of up to three discharge sides	75,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 203 onwards.

4-WAY SMART CASSETTE



2-way cassette

- › Draft-free air distribution, directed to 2 sides
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Accessories required: remote control + panel

R410A
R32

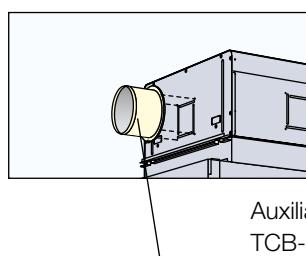


INDOOR UNIT		MMU-UP0071WH-E	MMU-UP0091WH-E	MMU-UP0121WH-E	MMU-UP0151WH-E	MMU-UP0181WH-E
Cooling capacity	kW	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	450/498/ 558	450/498/ 558	450/498/ 558	450/534/ 600	618/750/ 900
Sound pressure level (low/med/high)	dB(A)	30/32/34	30/32/34	30/32/34	30/33/35	30/33/35
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP25 (25/32)				
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,029	0,029	0,029	0,03	0,044
Dimensions (HxWxD)	mm	295 x 815 x 570	345 x 1180 x 570			
Weight	kg	19	19	19	19	26
Panel dimensions (HxWxD)	mm	20 x 1050 x 680	20 x 1415 x 680			
Panel weight	kg	10	10	10	10	14
Price	€	1.870,-	1.960,-	2.000,-	2.065,-	2.115,-

INDOOR UNIT		MMU-UP0241WH-E	MMU-UP0271WH-E	MMU-UP0301WH-E	MMU-UP0361WH-E	MMU-UP0481WH-E	MMU-UP0561WH-E
Cooling capacity	kW	7,10	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW	8,00	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	738/840/ 1050	738/840/ 1050	780/900/ 1260	1182/1434/ 1740	1230/1482/ 1800	1320/1578/ 2040
Sound pressure level (low/med/high)	dB(A)	33/35/38	33/35/38	34/37/40	36/39/42	37/40/43	39/42/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)					
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,054	0,054	0,064	0,073	0,088	0,117
Dimensions (HxWxD)	mm	345 x 1180 x 570	345 x 1180 x 570	345 x 1180 x 570	345 x 1600 x 570	345 x 1600 x 570	345 x 1600 x 570
Weight	kg	26	26	26	36	36	36
Panel dimensions (HxWxD)	mm	20 x 1415 x 680	20 x 1415 x 680	20 x 1415 x 680	20 x 1835 x 680	20 x 1835 x 680	20 x 1835 x 680
Panel weight	kg	14	14	14	14	14	14
Price	€	2.260,-	2.340,-	2.505,-	3.040,-	3.315,-	3.665,-

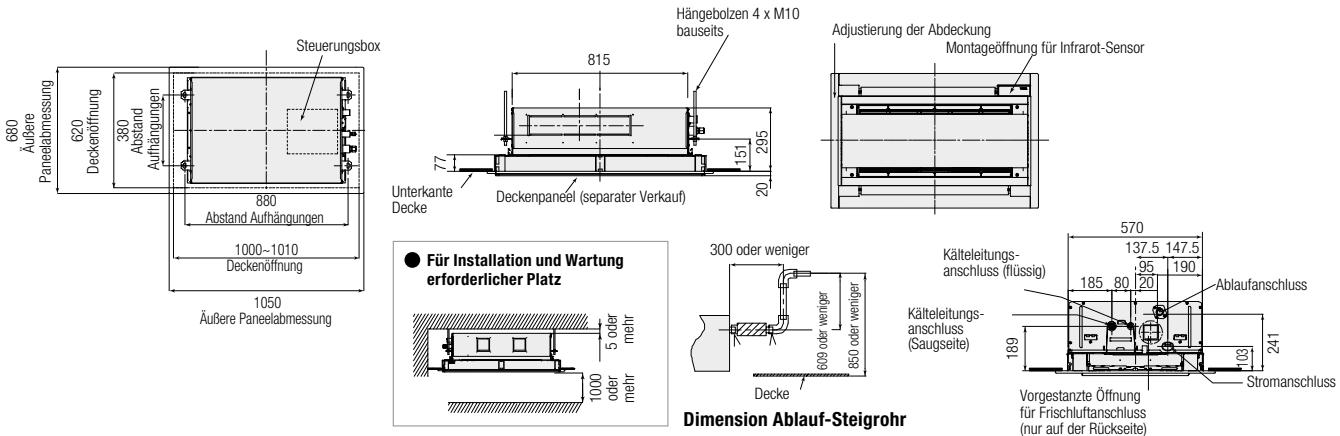
ACCESSORIES	DESCRIPTION	PRICE €
RBC-UW283PG(W)-E	Panel for sizes 7 to 15	560,-
RBC-UW803PG(W)-E	Panel for sizes 18 to 30	745,-
RBC-UW1403PG(W)-E	Panel for sizes 36 to 56	860,-
RBC-AXU31UW-E	Infrared remote control + receiver kit for installation in 2-way cassette	375,-
TCB-FF151US-E	Spigot flange for fresh air connection Ø 150 mm	80,-

You will find all the control options from page 203 onwards.

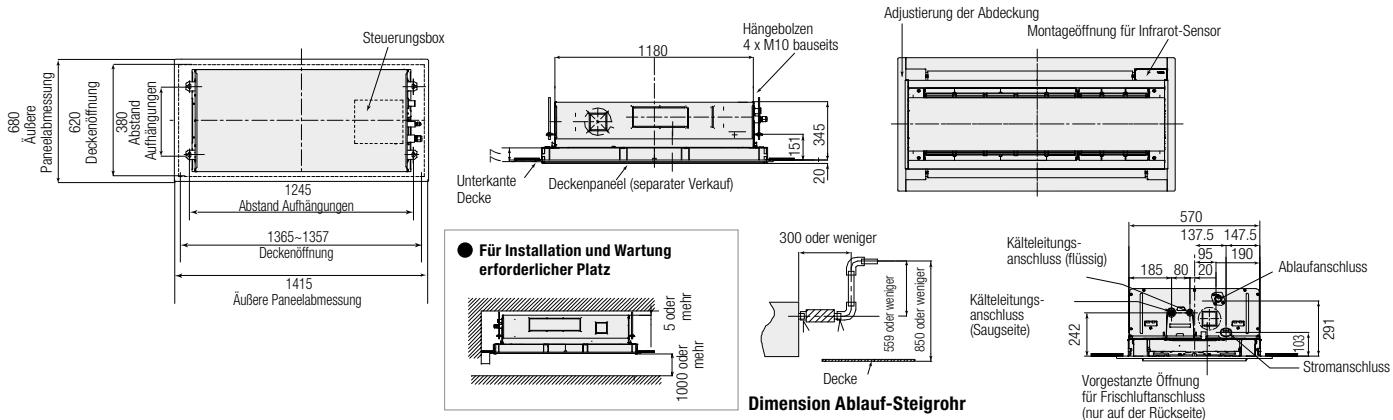


Auxiliary fresh air flange
TCB-FF151US-E

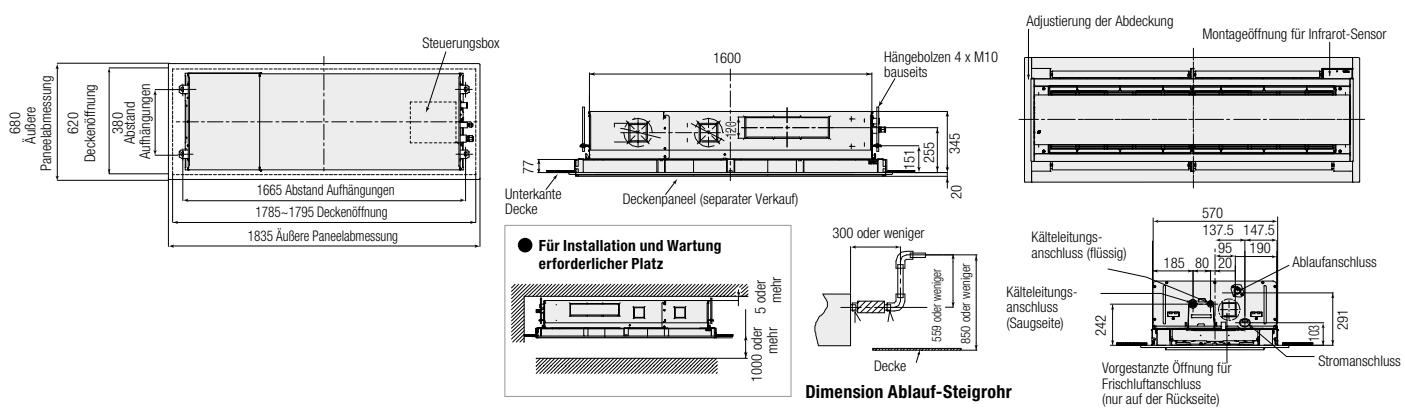
MMU-UP0071WH-E to MMU-UP0151WH-E



MMU-UP0181WH-E to MMU-UP0301WH-E



MMU-UP0361WH-E to MMU-UP0561WH-E



(Einheit: mm)

1-way flat cassette

- › Draft-free air distribution, directed to 1 side
- › Ultra-flat 30 mm design panel with presence sensor option
- › Optional plasma filter with ionizer
- › Minimal installation height of just 150 mm
- › Integrated drain pump
- › Accessories required: remote control + panel



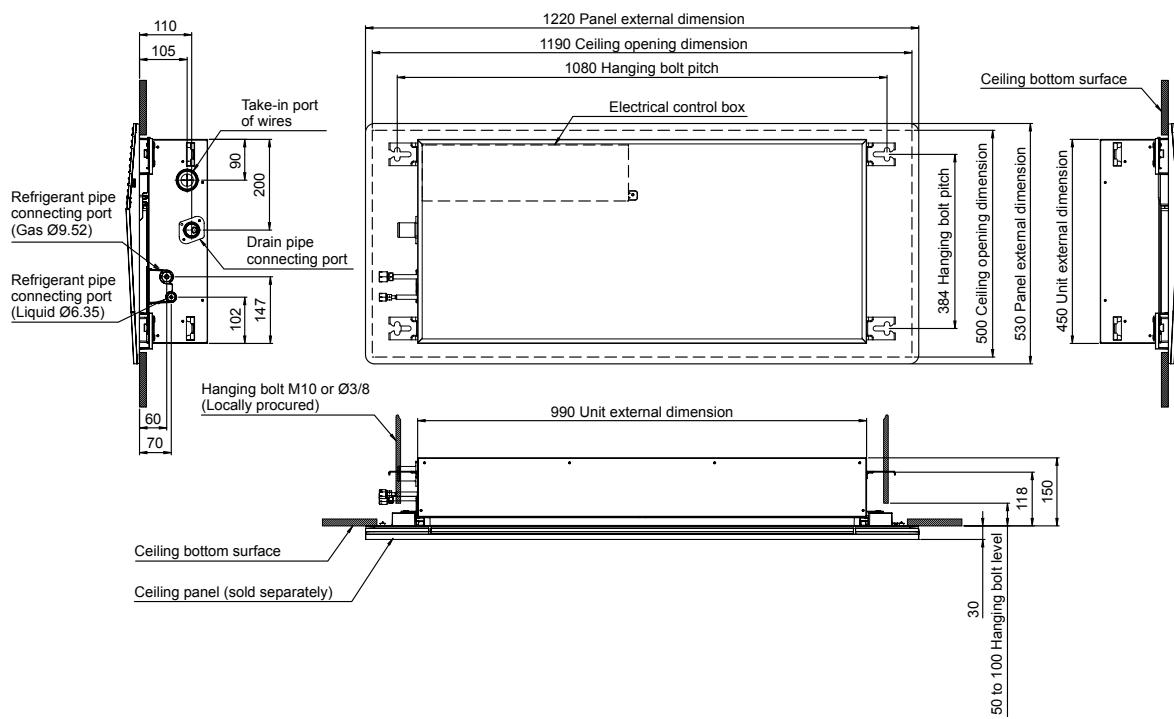
INDOOR UNIT		MMU-UP0031YHP-E	MMU-UP0051YHP-E	MMU-UP0071YHP-E	MMU-UP0091YHP-E	MMU-UP0121YHP-E
Cooling capacity	kW	0,90	1,70	2,20	2,80	3,60
Heating capacity	kW	1,30	1,90	2,50	3,20	4,00
Airflow	m³/h	270/370/ 480	270/370/ 480	270/390/ 500	290/410/ 520	290/420/ 540
Sound pressure level (low/med/high)	dB(A)	25/33/37	25/33/37	25/34/38	26/35/39	26/36/40
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP25 (25/32)				
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,015	0,015	0,017	0,018	0,018
Dimensions (HxWxD)	mm	150 x 990 x 450				
Weight	kg	14+4	14+4	14+4	14+4	14+4
Panel dimensions (HxWxD)	mm	30 x 1220 x 530				
Panel weight	kg	4	4	4	4	4
Price	€	1.960,-	1.990,-	2.010,-	2.030,-	2.060,-

INDOOR UNIT		MMU-UP0151YHP-E	MMU-UP0181YHP-E	MMU-UP0241YHP-E	MMU-UP0271YHP-E
Cooling capacity	kW	4,50	5,60	7,10	8,00
Heating capacity	kW	5,00	6,30	8,00	9,00
Airflow	m³/h	500/630/700	500/650/800	600/760/940	720/860/1000
Sound pressure level (low/med/high)	dB(A)	33/36/39	33/37/40	37/42/46	41/44/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,8 (5/8)	15,8 (5/8)
Condensate pipe diameter	mm	25	25	25	25
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW	0,025	0,027	0,042	0,05
Dimensions (HxWxD)	mm	150 x 1180 x 450			
Weight	kg	15	15	16	16
Panel dimensions (HxWxD)	mm	30 x 1410 x 530			
Panel weight	kg	5	5	5	5
Price	€	2.110,-	2.380,-	2.530,-	2.630,-

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UY32P-E	Panel for sizes 3 to 12	555,-
RBC-UY42P-E	Panel for size 15 to 27	580,-
RBC-AX33UYP-E	Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu)	80,-
TCB-EAPC1UYHP-E	Ozone air purifier for 1-way cassette (SMMSu)	300,-
TCB-SIR41UYP-E	Occupancy sensor kit for installation in 1-way cassette (SMMSu)	120,-

You will find all the control options from page 203 onwards.

1-WAY FLAT CASSETTE



Standard duct unit

- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply

R410A
R32



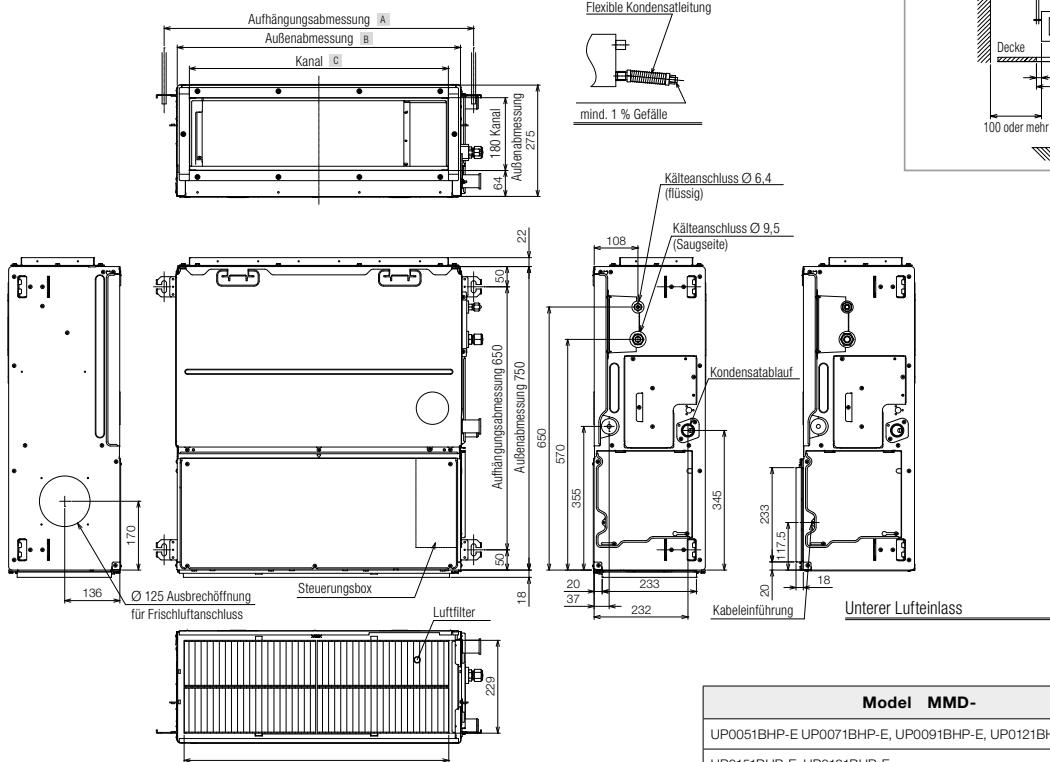
INDOOR UNIT	MMD-UP0051BHP-E	MMD-UP0071BHP-E	MMD-UP0091BHP-E	MMD-UP0121BHP-E	MMD-UP0151BHP-E	MMD-UP0181BHP-E
Cooling capacity	kW	1,70	2,20	2,80	3,60	4,50
Heating capacity	kW	1,90	2,50	3,20	4,00	5,00
Airflow	m³/h	360/450/ 540	360/450/ 540	390/480/ 570	390/480/ 570	540/660/ 920
Sound pressure level (low/med/high)	dB(A)	29/26/23	23/26/29	23/26/30	23/26/30	25/29/33
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)
Condensate pipe diameter	mm	VP25 (25/32)				
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,055	0,038	0,043	0,043	0,062
External static pressure	Pa	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120
Dimensions (HxWxD)	mm	275 x 700 x 750				
Weight	kg	23	23	23	23	23
Price	€	1.430,-	1.450,-	1.460,-	1.490,-	1.540,-

INDOOR UNIT	MMD-UP0241BHP-E	MMD-UP0271BHP-E	MMD-UP0301BHP-E	MMD-UP0361BHP-E	MMD-UP0481BHP-E	MMD-UP0561BHP-E
Cooling capacity	kW	7,10	8,00	9,00	11,20	14,00
Heating capacity	kW	8,00	9,00	10,00	12,50	16,00
Airflow	m³/h	870/1090/ 1320	870/1090/ 1320	960/1200/ 1450	1380/1620/ 1920	1500/1920/ 2350
Sound pressure level (low/med/high)	dB(A)	27/31/36	27/31/36	27/31/36	33/36/40	33/36/40
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)				
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,077	0,077	0,094	0,172	0,198
External static pressure	Pa	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120	30/40/ 50/65/ 80/100/ 120
Dimensions (HxWxD)	mm	275 x 1000 x 750	275 x 1000 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	30	30	30	40	40
Price	€	1.770,-	1.840,-	2.010,-	2.190,-	2.360,-

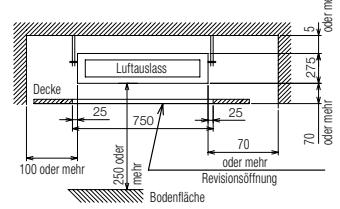
ACCESSORIES	DESCRIPTION	PRICE €
TCB-SF56C6BPE	Connection flange (2 x Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	160,-
TCB-SF80C6BPE	Connection flange (3 x Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	190,-
TCB-SF160C6BPE	Connection flange (4 x Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	230,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 203 onwards.

STANDARD DUCT UNIT



● Für Installation und Wartung erforderlicher Raum

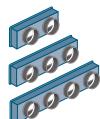


(Einheit: mm)

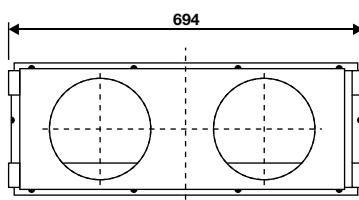
Model	MMD-	A	B	C	D
UP0051BHP-E	UP0071BHP-E, UP0091BHP-E, UP0121BHP-E	765	700	640	654
UP0151BHP-E, UP0181BHP-E		765	700	640	654
UP0241BHP-E, UP0271BHP-E, UP0301BHP-E		1065	1000	940	935,5
UP0361BHP-E, UP0481BHP-E, UP0561BHP-E		1465	1400	1340	1349

The following connection flanges are available for standard duct units:

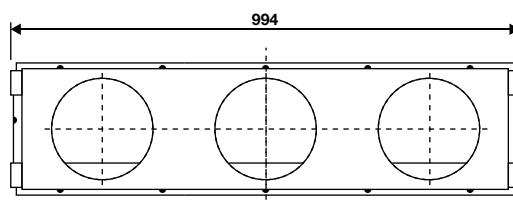
Flange	Compatible with
TCB-SF56C6BPE	MMD-UP0051/0071/0091/0121/0151/0181BHP-E
TCB-SF80C6BPE	MMD-UP0241/0271/0301BHP-E
TCB-SF160C6BPE	MMD-UP0361/0481/0561BHP-E



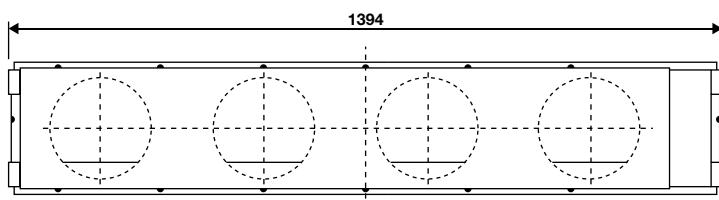
Äußere Dimensionen:



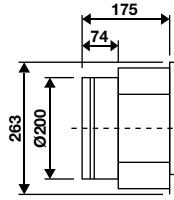
TCB-SF56C6BPE



TCB-SF80C6BPE



TCB-SF160C6BPE



(Einheit: mm)

SSD super-slim duct unit

- Minimal installation height of just 210 mm
- Lightweight and quiet, with compact dimensions
- Integrated air filter & drain pump (350 mm)

R410A
R32



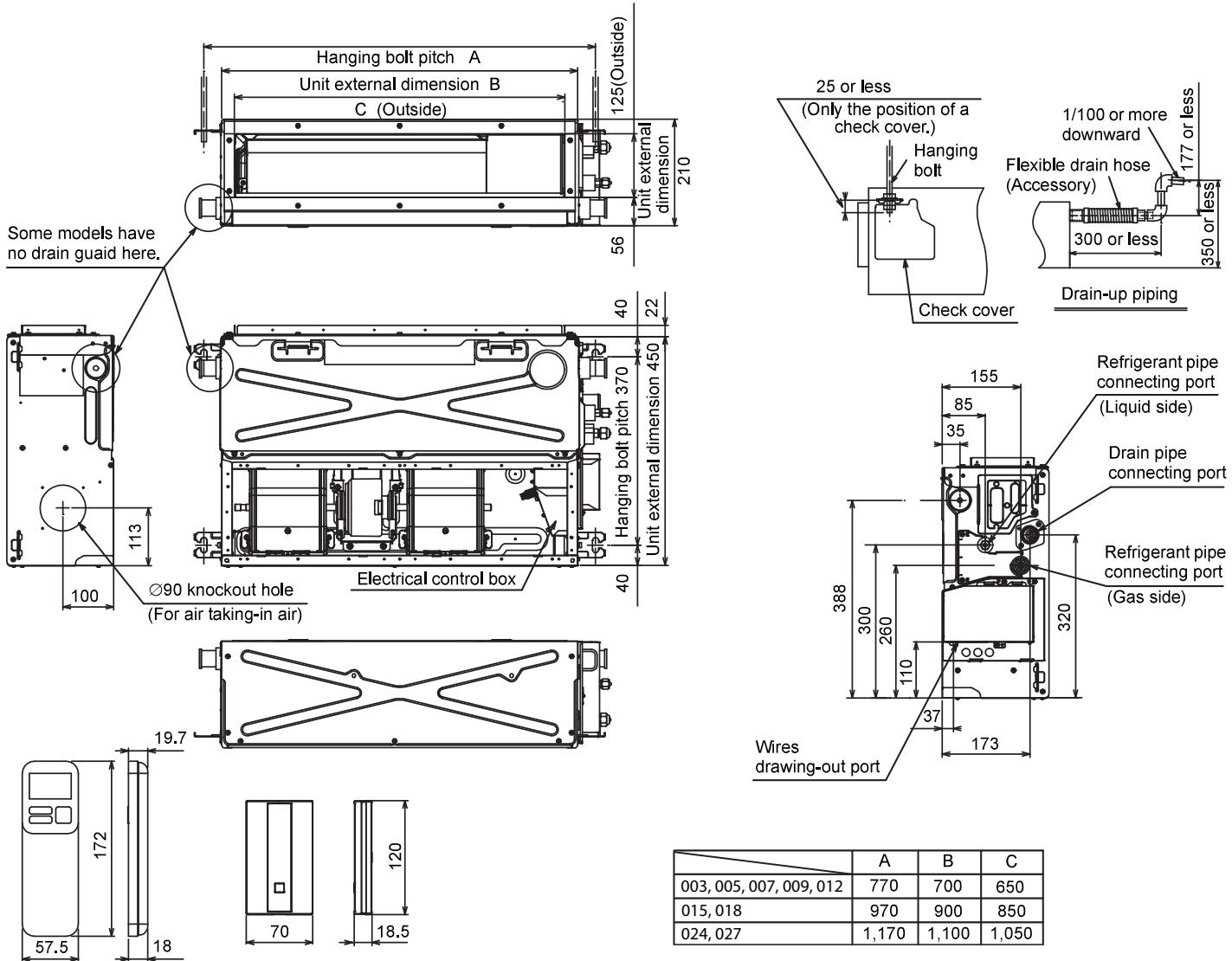
INDOOR UNIT	MMD-UP0031SPHY-E	MMD-UP0051SPHY-E	MMD-UP0071SPHY-E	MMD-UP0091SPHY-E	MMD-UP0121SPHY-E
Cooling capacity	kW	0,90	1,70	2,20	2,80
Heating capacity	kW	1,00	1,90	2,50	3,20
Airflow	m³/h	410/380/ 360	450/410/ 380	540/470/ 400	570/500/ 430
Sound pressure level (low/med/high)	dB(A)	25/26/ 27/28/ 29	26/27/ 28/29/ 30	26/28/ 29/30/ 31	26/28/ 29/31/ 32
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,018	0,02	0,026	0,029
External static pressure	Pa	10/20/ 30/40/ 50	10/20/ 30/40/ 50	10/20/ 30/40/ 50	10/20/ 30/40/ 50
Dimensions (HxWxD)	mm	210 x 700 x 450			
Weight	kg	16	16	16	16
Price	€	1.110,-	1.130,-	1.170,-	1.185,-
					1.240,-

INDOOR UNIT	MMD-UP0151SPHY-E	MMD-UP0181SPHY-E	MMD-UP0241SPHY-E	MMD-UP0271SPHY-E
Cooling capacity	kW	4,50	5,60	7,10
Heating capacity	kW	5,00	6,30	8,00
Airflow	m³/h	690/640/550	780/750/660	1080/950/860
Sound pressure level (low/med/high)	dB(A)	28/29/30/31/33	29/31/32/33/34	30/32/33/35/36
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW	0,035	0,044	0,067
External static pressure	Pa	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50
Dimensions (HxWxD)	mm	210 x 900 x 450	210 x 900 x 450	210 x 1100 x 450
Weight	kg	18	18	21
Price	€	1.300,-	1.380,-	1.480,-
				1.590,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-
TCB-TDL0141SDY-E		215,-
TCB-TDL0141SDY-E	Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 5 to 12.	
TCB-TDL0181SDY-E		250,-
TCB-TDL0181SDY-E	Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 15 and 18.	
TCB-TDL0271SDY-E		275,-
TCB-TDL0271SDY-E	Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 24 and 27.	

You will find all the control options from page 203 onwards.

SSD SUPER-SLIM DUCT UNIT



High-pressure duct unit

- Greatest airflow with most compact structure
- External static pressure adjustable up to 250 Pa
- Integrated drain pump (850 mm, up to size 56)



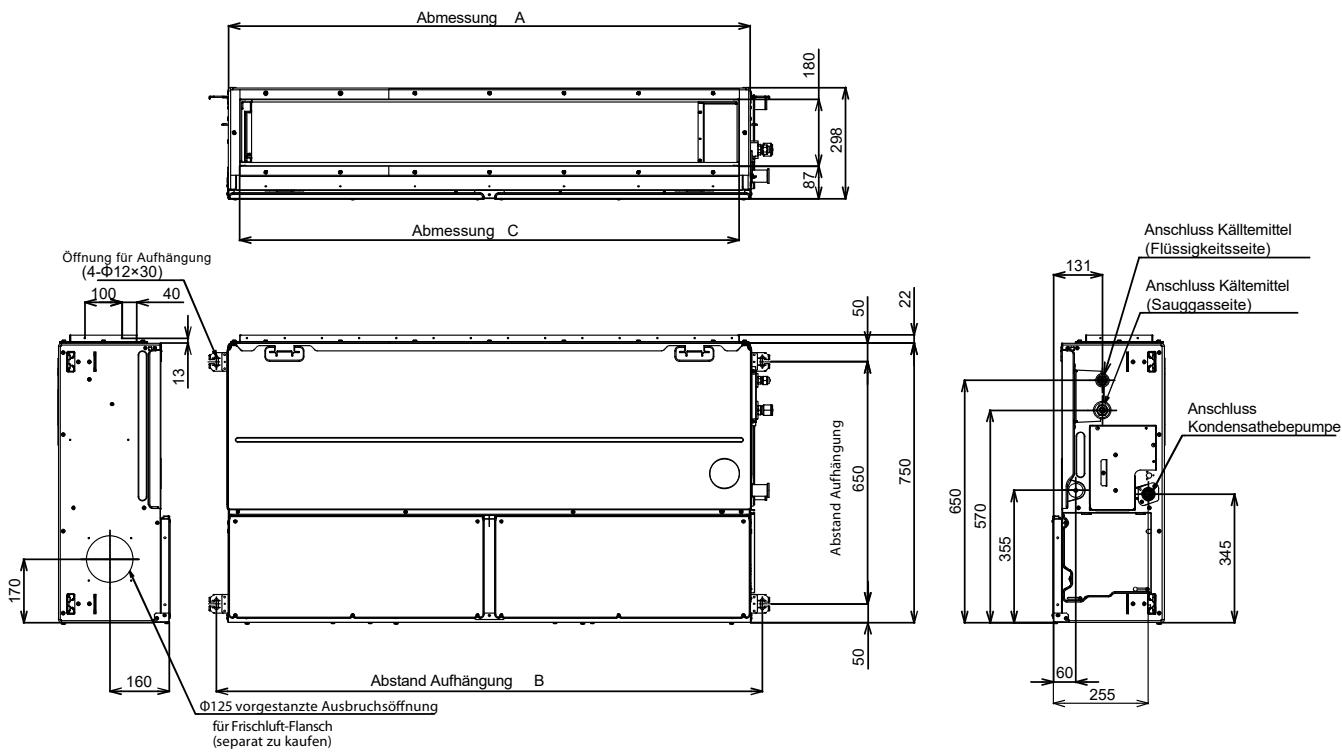
INDOOR UNIT	MMD-UP0181HP-E	MMD-UP0241HP-E	MMD-UP0271HP-E	MMD-UP0361HP-E
Cooling capacity	kW	5,60	7,10	8,00
Heating capacity	kW	6,30	8,00	9,00
Airflow	m³/h	900/990/1100	960/1050/1200	1200/1350/1500
Sound pressure level (low/med/high)	dB(A)	31/33/37	31/34/38	38/41/43
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW	0,125	0,140	0,190
External static pressure	Pa	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200
Dimensions (HxWxD)	mm	298 x 1000 x 750	298 x 1000 x 750	298 x 1400 x 750
Weight	kg	34	34	43
Price	€	2.350,-	2.570,-	2.670,-
				2.790,-

INDOOR UNIT	MMD-UP0481HP-E	MMD-UP0561HP-E	MMD-UP0721HP-E1	MMD-UP0961HP-E1
Cooling capacity	kW	14,00	16,00	22,40
Heating capacity	kW	16,00	18,00	25,00
Airflow	m³/h	1695/1980/2340	1920/2340/2760	2500/3200/3800
Sound pressure level (low/med/high)	dB(A)	38/41/44	41/44/46	36/40/44
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	22,2 (7/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW	0,300	0,400	0,540
External static pressure	Pa	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/83/117/150/183/217/250
Dimensions (HxWxD)	mm	298 x 1400 x 750	298 x 1400 x 750	448 x 1400 x 900
Weight	kg	43	43	97
Price	€	2.920,-	3.140,-	6.390,-
				6.670,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP40DPE	Drain pump, RAV: 22 + 28 / VRF: 72 + 96	440,-
TCB-LK801D-E	Long Life Airfilter kit, for model sizes 18, 24 + 27	75,-
TCB-LK1401D-E	Long Life Airfilter kit, for model sizes 36, 48 + 56	105,-
TCB-LK2801DP-E	Long Life Airfilter kit, for model sizes RAV: 22 + 28 / VRF: 72 + 96	155,-

You will find all the control options from page 203 onwards.

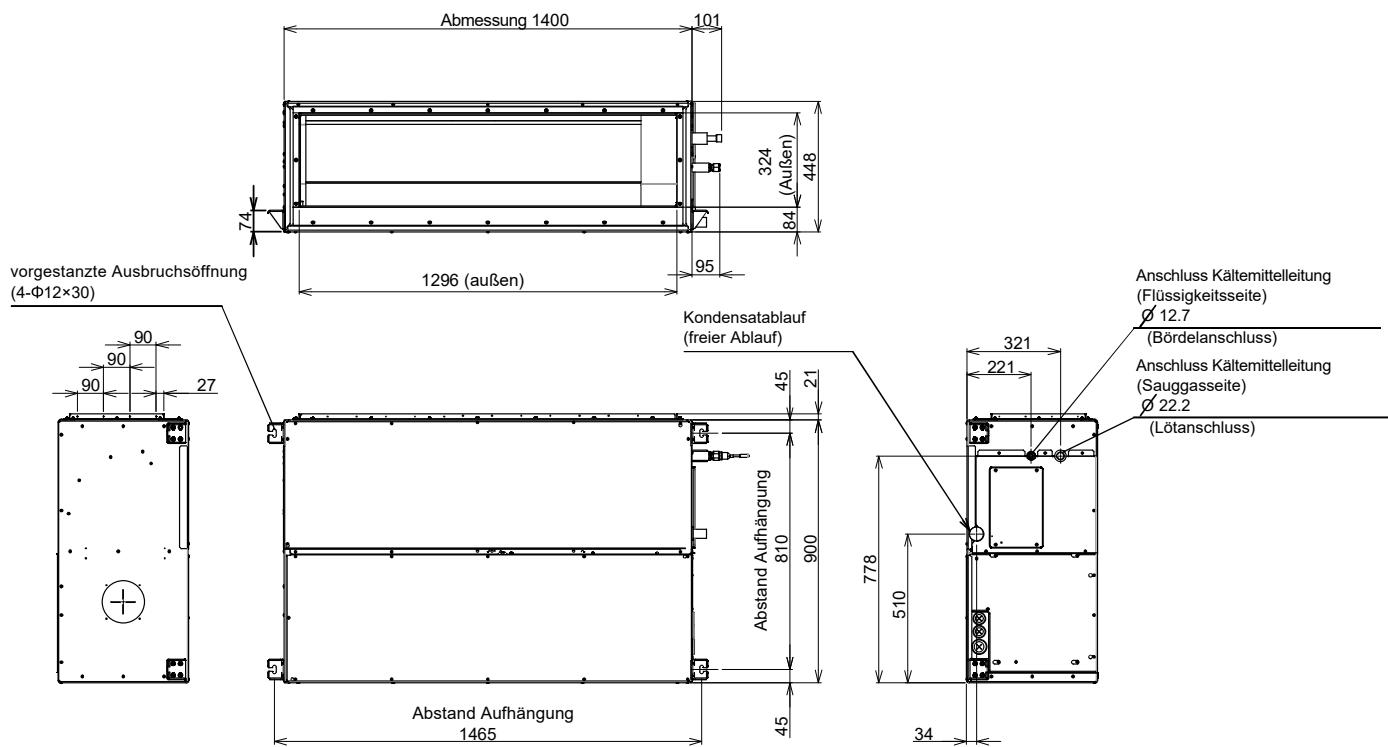
HIGH-PRESSURE DUCT UNITS MMD-UP0181HP-E to MMD-UP0561HP-E



Abmessungen

	A	B	C	D
UP018~027 Type	1000	1065	940	500
UP036~056 Type	1400	1465	1340	700

HIGH-PRESSURE DUCT UNITS MMD-UP0721HP-E to MMD-UP0961HP-E1



Fresh-air duct unit SMMSSu

- › Compact and lightweight chassis
- › Line-up to 40 kW
- › Intake air temperature from -10 to +46°C
- › Not a stock item – lead time on request



INDOOR UNIT	MMD-UP0481HFP-E	MMD-UP0721HFP-E1	MMD-UP0961HFP-E1	MMD-UP1121HFP-E1	MMD-UP1281HFP-E1
Cooling capacity	kW	14,00	22,40	28,00	33,50
Heating capacity	kW	8,90	13,90	17,40	20,80
Airflow	m³/h	760/930/ 1080	1200/1440/ 1680	1470/1800/ 2100	1770/2130/ 2520
Sound pressure level (low/med/high)	dB(A)	31/32/ 35/37/ 38	33/35/ 36/37/ 38	33/35/ 36/38/ 39	34/36/ 37/39/ 40
Liquid pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,11	0,16	0,20	0,250
External static pressure	Pa	50/75/ 100/125/ 150/175/ 200	50/75/ 100/125/ 150/175/ 200	50/75/ 100/125/ 150/175/ 200	50/75/ 100/125/ 150/175/ 200
Dimensions (HxWxD)	mm	327 x 1430 x 750	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900
Weight	kg	44	99	99	99
Price	€	3.600,-	7.260,-	7.630,-	8.160,-
					8.750,-

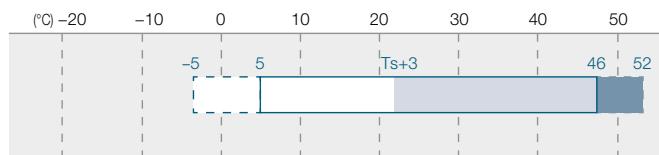
ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP40DFP-E	Drain pump	440,-

You will find all the control options from page 203 onwards.

Nominal conditions:

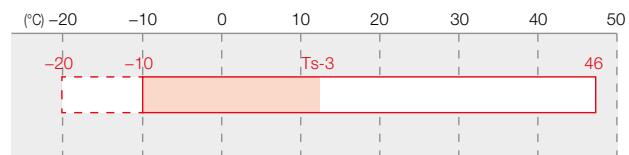
Cooling: Outdoor air temperature 33°C DB / 28°C WB, set temperature 18°C
 Heating: Outdoor air temperature 0°C DB / -2.9°C WB, set temperature 25°C
 Refrigerant piping: Length 7.5 m / Height 0 m

COOLING MODE



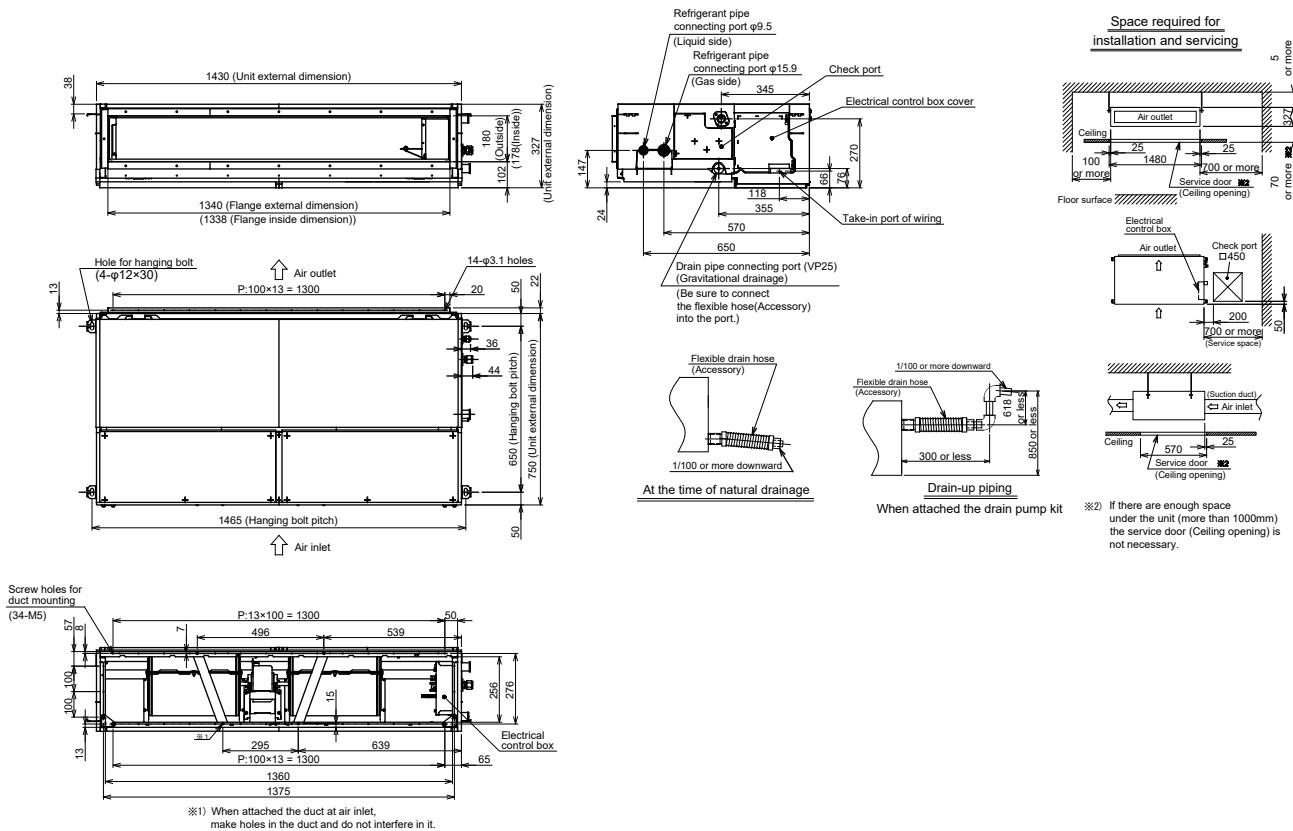
Requires pre-treatment of suction air to be 5°C or higher by the external heater.
 Operable but the adequate cooling performance will not be obtained.

HEATING MODE

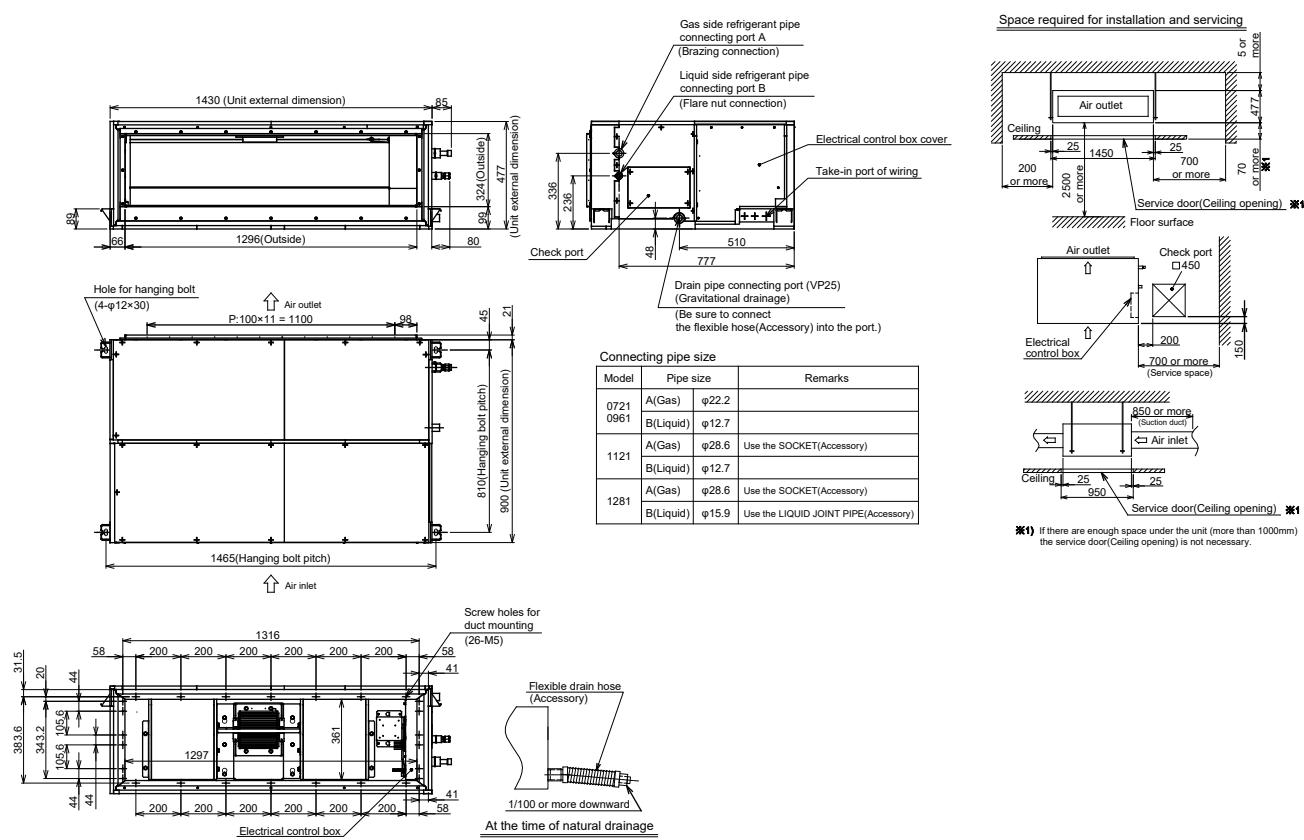


Requires pre-treatment of suction air to be -10°C or higher by the external heater.

FRESH-AIR DUCT UNIT SMMSu MMD-UP0481HFP-E



FRESH-AIR DUCT UNIT SMMSu MMD-UP0721HFP-E1 / MMD-UP0961HFP-E1 / MMD-UP1121HFP-E1 / MMD-UP1281HFP-E1



Console

- BI-Flow console with air outlet on two sides & floor heating effect
- Very quiet running due to radial fan

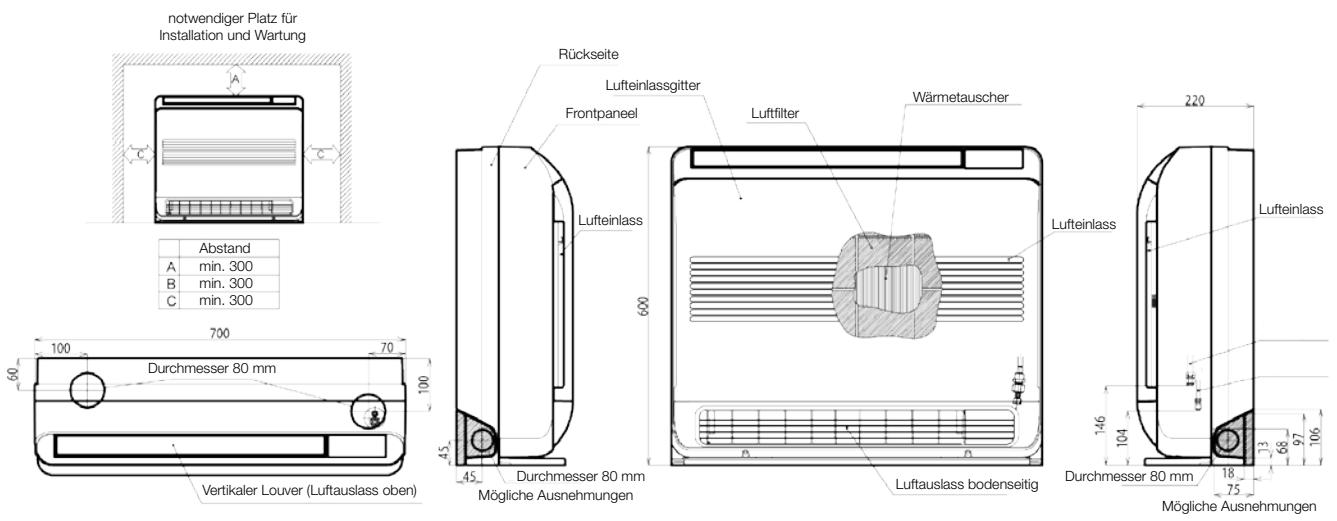


INDOOR UNIT	MML-UP0071NHP-E	MML-UP0091NHP-E	MML-UP0121NHP-E	MML-UP0151NHP-E	MML-UP0181NHP-E
Cooling capacity	kW	2,20	2,80	3,60	4,50
Heating capacity	kW	2,50	3,20	4,00	5,00
Airflow	m³/h	282/366/ 510	282/366/ 510	324/804/ 552	384/468/ 624
Sound pressure level (low/med/high)	dB(A)	26/32/38	26/32/38	29/34/40	31/37/43
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,021	0,021	0,025	0,034
Dimensions (HxWxD)	mm	600 x 700 x 220			
Weight	kg	17	17	17	17
Price	€	1.460,-	1.550,-	1.650,-	1.750,-
					1.830,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find all the control options from page 203 onwards.

CONSOLE



(Einheit: mm)

Chassis

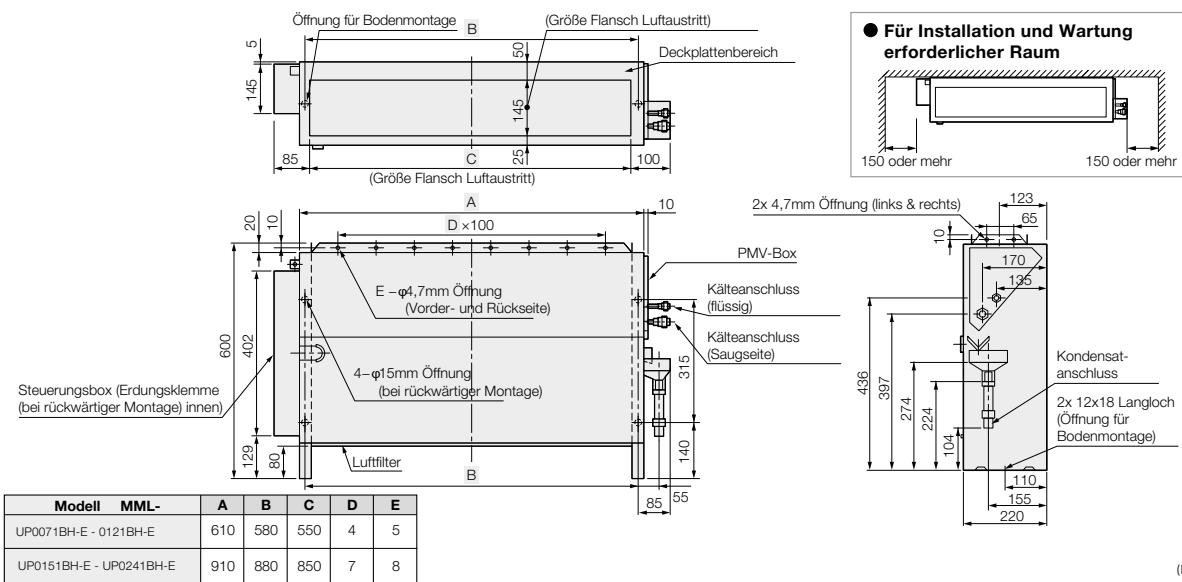
- Console unit for custom paneling
- Completely hidden so does not affect the interior



INDOOR UNIT	MML-UP0071BH-E	MML-UP0091BH-E	MML-UP0121BH-E	MML-UP0151BH-E	MML-UP0181BH-E	MML-UP0241BH-E
Cooling capacity	kW	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	300/400/ 460	300/400/ 460	300/400/ 460	460/600/ 740	490/600/ 740
Sound pressure level (low/med/high)	dB(A)	32/34/36	32/34/36	32/34/36	32/34/36	33/37/42
Liquid pipe diameter	mm (inch)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	6,4 (1/4)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (1/2)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)				
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW	0,056	0,056	0,056	0,090	0,095
Dimensions (HxWxD)	mm	600 x 745 x 220	600 x 745 x 220	600 x 745 x 220	600 x 1045 x 220	600 x 1045 x 220
Weight	kg	21	21	21	29	29
Price	€	1.980,-	2.000,-	2.065,-	2.105,-	2.125,-

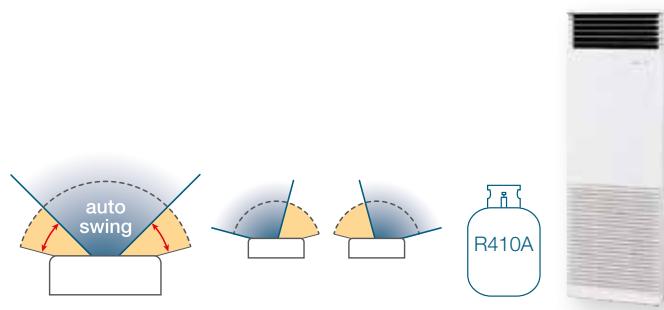
You will find all the control options from page 203 onwards.

CHASSIS



Floor standing unit

- › Air outlet can be directed forward or up
- › Optional PCB for external control, alarms, and messages
- › Recess with cover for standard remote control
- › Not a stock item – lead time on request

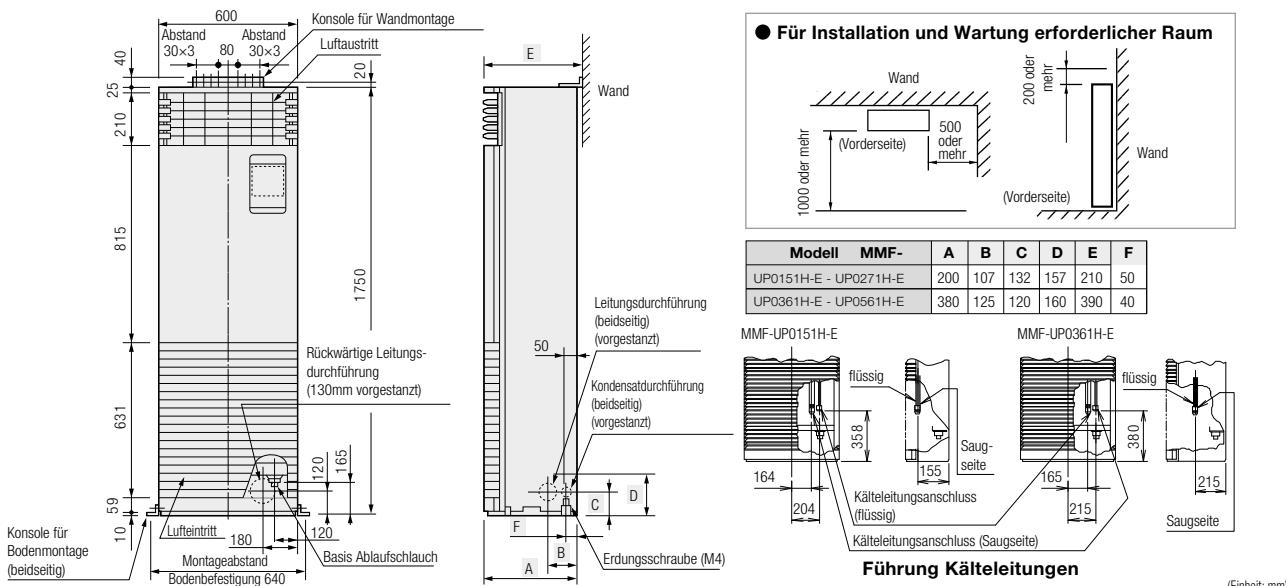


INDOOR UNIT	MMF-UP0151H-E	MMF-UP0181H-E	MMF-UP0241H-E	MMF-UP0271H-E	MMF-UP0361H-E	MMF-UP0481H-E	MMF-UP0561H-E	
Cooling capacity	kW	4,50	5,60	7,10	8,00	11,20	14,00	16,00
Heating capacity	kW	5,00	6,30	8,00	9,00	12,50	16,00	18,00
Airflow	m³/h	660/780/ 900	660/780/ 900	840/990/ 1200	840/990/ 1200	1380/1620/ 1920	1560/1730/ 2160	1560/1730/ 2160
Sound pressure level (low/med/high)	dB(A)	37/42/46	37/42/46	39/45/49	39/45/49	41/46/51	44/49/54	44/49/54
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)						
Power supply	V/Ph+N/Hz	220-240/1+N/ 50						
Power consumption (min./nom./max.)	kW	0,055	0,055	0,089	0,089	0,135	0,160	0,160
Dimensions (HxWxD)	mm	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390			
Weight	kg	46	46	47	47	62	62	62
Price	€	2.895,-	2.940,-	3.065,-	3.080,-	3.315,-	3.335,-	3.365,-

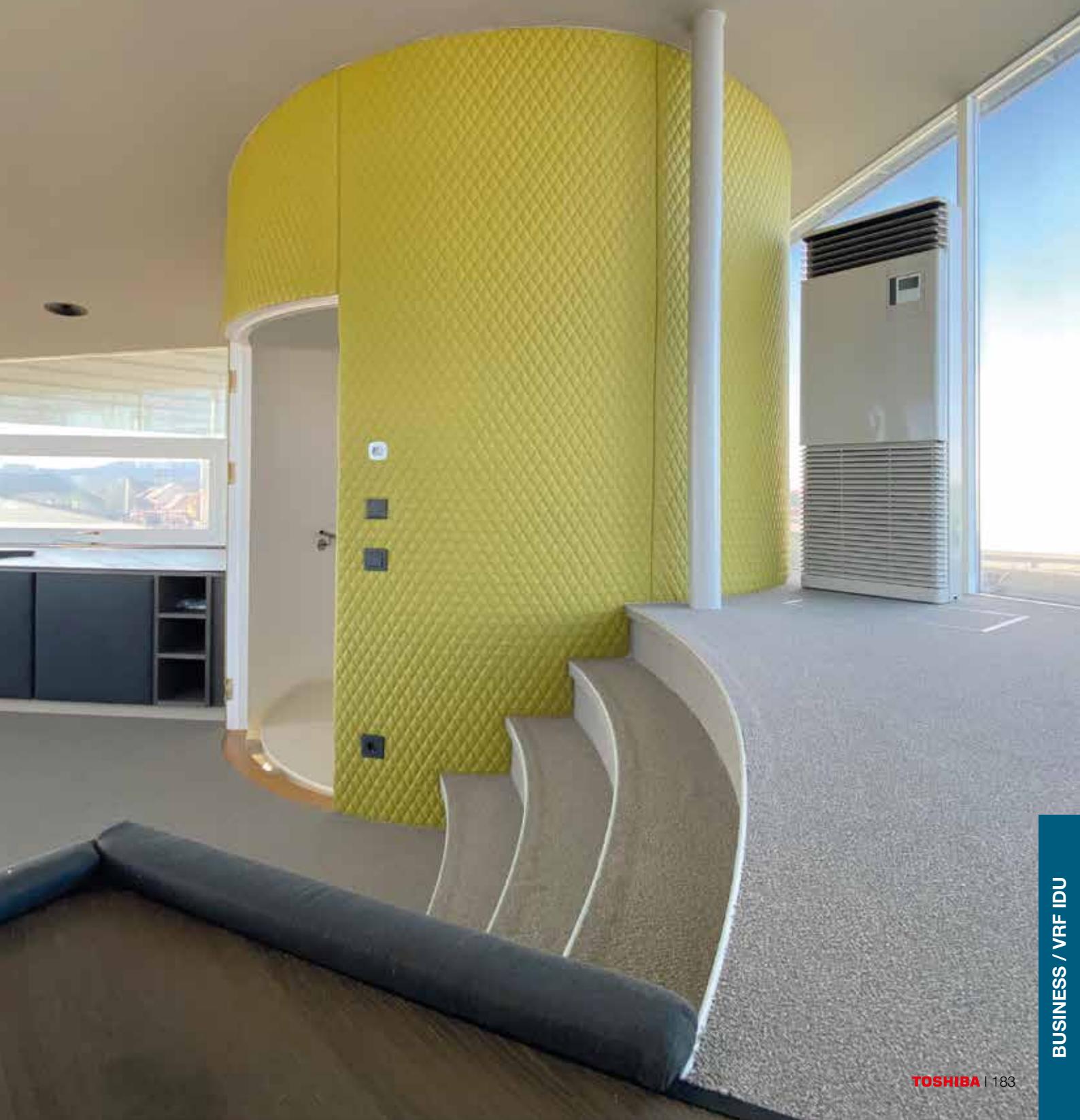
ACCESSORIES	DESCRIPTION	PRICE €
TCB-CKC1F-E	Cover kit to close the remote control slot	70,-

You will find all the control options from page 203 onwards.

FLOOR STANDING UNIT



(Einheit: mm)

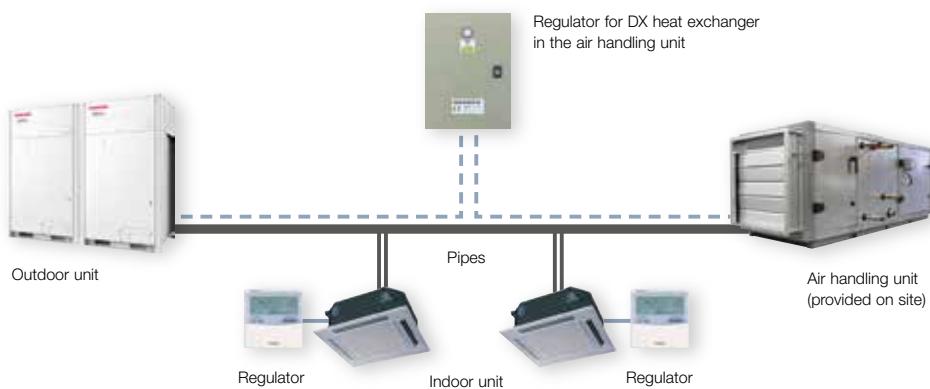


DX-kit exhaust air controlled

- For regulating the exhaust air or room temperature
- Direct expansion kit consisting of control cabinet, PMV kit, and all the necessary sensors
- For use together with air handling units and air curtains
- Wired remote control included (in master only)



ACCESSORIES	DESCRIPTION	DIMENSIONS (HxWxD) (MM)	WEIGHT (KG)	PRICE €
MM-DXC010	Control unit (master)	400 x 300 x 150	7,6	1.200,-
MM-DXC012	Control unit (follower)	400 x 300 x 150	8,0	930,-
MM-DXV080	Valve kit up to 8 kW			640,-
MM-DXV140	Valve kit up to 14 kW			640,-
MM-DXV280	Valve kit up to 28 kW			640,-

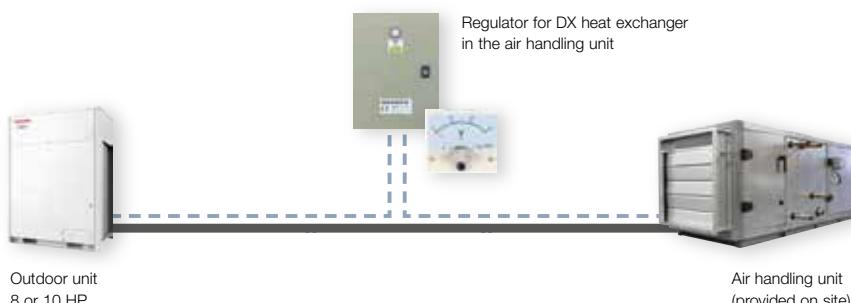


DX-kit 0 – 10 V capacity control

- For supply air control
- Direct expansion kit consisting of control cabinet, PMV kit and all the necessary sensors
- For use together with air handling units and air curtains
- Wired remote control only needed for commissioning (not included)
- Compatible with 8 and 10 HP SMMSu outdoor units
- 1:1 solution – no further indoor units may be connected
- 0 – 10 V signal of the ventilation control required



ACCESSORIES	DESCRIPTION	DIMENSIONS (HxWxD) (MM)	WEIGHT (KG)	PRICE €
RBC-DXC031	Control unit for capacity control using 0-10 V signal	400 x 300 x 150		1.505,-
MM-DXV141	Valve kit for 11.2 kW, 14.0 kW and 16.0 kW			365,-
MM-DXV281	Valve kit for 22.4 kW and 28.0 kW			365,-



DX-KIT EXHAUST AIR CONTROLLED

Capacities & combinations

Can be combined with: MiNi SMMS Single Fan, MiNi SMMSe 4, 5, 6 HP; SMMSu, SHRMe

CAPACITY (HP)	CONTROL UNIT		PMV VALVE KIT			NOM. CAPACITY (kW)		AIRFLOW (m³/h)	DX-COIL VOLUME (dm³)
	MM-DXC010	MM-DXC012	MM-DXV080	MM-DXV140	MM-DXV280	COOLING	HEATING	HOURS	MIN.- HOURS MAX.
2	1		1			5.60	6.30	900	0.85 / 1.00 / 1.15
2.5	1		1			7.10	8.00	1125	1.06 / 1.25 / 1.44
3	1		1			8.00	9.00	1320	1.27 / 1.50 / 1.72
4	1			1		11.20	12.50	1600	1.70 / 2.00 / 2.30
5	1			1		14.00	16.00	2100	2.12 / 2.50 / 2.87
6	1			1		16.00	18.00	2800	2.55 / 3.00 / 3.45
8	1				1	22.40	25.00	3600	3.40 / 4.00 / 4.60
10	1				1	28.00	31.50	4200	4.25 / 5.00 / 5.75
12	1	1		2		33.50	37.50	5600	5.10 / 6.00 / 6.90
14	1	1		1	1	40.00	45.00	6400	5.95 / 7.00 / 8.05
16	1	1			2	45.00	50.00	7200	6.80 / 8.00 / 9.20
18	1	1			2	50.40	56.00	7800	7.65 / 9.00 / 10.35
20	1	1			2	56.00	63.00	8400	8.50 / 10.00 / 11.50
22	1	2		1	2	61.50	64.00	10000	9.35 / 11.00 / 12.65
24	1	2			3	67.00	75.00	10800	10.20 / 12.00 / 13.80
26	1	2			3	73.50	82.50	11400	11.05 / 13.00 / 14.95
28	1	2			3	78.50	87.50	12000	11.90 / 14.00 / 16.10
30	1	2			2	85.00	95.00	12600	12.75 / 15.00 / 17.25
32	1	3			4	90.00	100.00	14400	13.60 / 16.00 / 18.40
34	1	3			4	95.40	106.50	15000	14.45 / 17.00 / 19.55
36	1	3			4	101.00	113.00	15600	15.30 / 18.00 / 20.70
38	1	3			4	106.50	114.00	16200	16.15 / 19.00 / 21.85
40	1	4			4	112.00	126.00	16800	17.00 / 20.00 / 23.00
42	1	4			5	117.50	127.00	18600	17.85 / 21.00 / 24.15
44	1	4			5	123.00	128.00	19200	18.70 / 22.00 / 25.30
46	1	4			5	130.00	145.00	19800	19.55 / 23.00 / 26.45
48	1	4			5	135.00	150.00	20400	20.40 / 24.00 / 27.60
50	1	4			5	140.40	156.00	21000	21.25 / 25.00 / 28.75
52	1	4			6	146.00	163.00	22800	22.10 / 26.00 / 29.90
54	1	5			6	151.50	164.00	23400	22.95 / 27.00 / 31.05
56	1	5			6	157.00	176.00	24000	23.80 / 28.00 / 32.20
58	1	5			6	162.50	177.00	24600	24.65 / 29.00 / 33.35
60	1	5			6	168.00	178.00	25200	25.50 / 30.00 / 34.50

DX-KIT 0 – 10 V CAPACITY CONTROL

Capacities & combinations

Can be combined with: exclusively SMMSu 8 and 10 HP single outdoor units

CAPACITY (HP)	CONTROL UNIT		PMV VALVE KIT			NOM. CAPACITY (kW)		AIRFLOW (m³/h)	DX-COIL VOLUME (dm³)
	RBC-DXC031	MM-DXV141	MM-DXV281	COOLING	HEATING	HOURS	MIN.- HOURS MAX.		
6	1	1		16.00	18.00	3300		1.70 / - / 3.20	
8	1		1	22.40	25.00	4300		3.00 / - / 4.20	
10	1		1	28.00	31.50	5000		3.00 / - / 5.40	

Nominal capacity measuring conditions - COOLING: Indoor temperature +27°C DB / 19°C WB, outdoor temperature +35°C DB, for standard airflow.

Nominal capacity measuring conditions - HEATING: Indoor temperature +20°C DB / +7°C DB, outdoor temperature 6°C DB, for standard airflow.

The SHRMe capacity is specified as nominal cooling and maximum heating.

The standard airflow is a guide value. The required capacity should determine the choice of the PMV valve kit.

The heating and cooling capacities are guide values. The individual design of the air handling unit and DX heat exchanger will affect the actual system capacity.

Operating limits and permitted air conditions are specified in the installation manual.

The pipe volume of the DX heat exchanger should be calculated as described in the installation manual; a tolerance of +/- 10% is permissible.

Direct expansion kit NEXT

- Up to 56 kW cooling/heating capacity with a single valve kit
- A single controller can be configured for all control options:
 - Regulating the exhaust air or room temperature
 - Supply air control
 - 0 – 10 V capacity control
- Direct expansion kit consisting of control cabinet, PMV kit and all the necessary sensors
- For use together with air handling units and air curtains
- All temperature sensors with 7.5 m length
- Wired remote control needed for commissioning (not included)
- Observe the refrigerant volume for 3rd party heat exchangers shown in the data book.
- For combination with SMMSu, SHRMe outdoor units / Cannot be combined with Mini SMMSe!



Type of control	Supply air, exhaust air, or 0 – 10 V capacity control												Supply air or exhaust air control												
	Single						Twin						Double twin						Triple						
Number of CONTROLLERS	1						1						2						3						
Number of VALVE KITS	1						2						4 (2 x 2)						6 (3 x 2)						
Register version	1 cycle												1 cycle												6 cycles
Total achievable capacity (kW)	22.40	28.00	33.50	40.00	45.00	50.40	56.00	67.00	80.00	89.50	100.50	112.00	134.00	156.50	179.00	201.00	223.50	234.50	268.00	301.50	335.00				
Total achievable capacity (HP)	8	10	12	14	16	18	20	24	28	32	36	40	48	56	64	72	80	84	96	108	120				

ACCESSORIES	DESCRIPTION	PRICE €
TCB-IFDMX01UP-E	Controller (without relays)	840,-
TCB-IFDMR01UP-E	Controller (with relays)	1.200,-
RBM-A101UPVA-E	Valve kit 8 to 12 HP (22.4 to 33.5 kW)	600,-
RBM-A201UPVA-E	Valve kit 14 to 20 HP (40.0 to 56.0 kW)	600,-
TCB-IFDES1001P-E	Optional temperature sensor, 10 m cable length	170,-



Air-to-air heat exchangers

- › Air-to-air cross-flow heat exchanger for stand-alone operation
- › Up to 75% energy recovery
- › Optional PCB for external control, alarms, and messages



INDOOR UNIT		VN-M150HE	VN-M250HE	VN-M350HE	VN-M500HE	VN-M650HE	VN-M800HE	VN-M1000HE1	VN-M1500HE1	VN-M2000HE1
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Heat exchanger mode power consumption (min./nom./max.)	W	42/-/78	52/-/138	82/-/182	128/-/238	178/-/290	286/-/383	220/-/396	310/-/590	440/-/792
Airflow (min./nom./max.)	m³/h	110/150/ 150	155/250/ 250	210/350/ 350	390/500/ 500	520/650/ 650	700/800/ 800	700/1000/ 1000	1200/1500/ 1500	1400/2000/ 2000
External static pressure	Pa	47 - 102	28 - 98	65 - 125	62 - 150	61 - 107	76 - 158	70 - 105	80 - 140	70 - 105
Sound pressure level (low/med/high)	dB(A)	20/25/5/28	21/27/30	27/32/35	26/31/34	31/34/36	33,5/37/ 38,5	34,5/39,5/ 40,5	36/40/41,5	36,5/41,5/ 42,5
Sound pressure level (low/med/high)	dB(A)	20/25/5/28	21/27/30	27/32/35	26/31/34	31/34/36	33,5/37/ 38,5	33,0/37,0/ 38,0	36,0/40,0/ 41,0	36,5/40,5/ 41,5
Temperature exchange efficiency (min./nom./max.)	%	81,5/- 83,0	78,0/- 81,5	74,5/- 79,5	76,5/- 78,0	75,0/- 76,5	76,5/- 77,5	73,5/- 77,0	76,5/- 79,0	73,5/- 77,5
Enthalpy exchange efficiency (min./nom./max.)		74,5/- 76,0	70,0/- 74,0	65,0/- 71,5	72,0/- 73,5	69,5/- 71,5	71,0/- 71,5	68,5/- 71,5	71,0/- 73,5	68,5/- 72,0
Enthalpy exchange efficiency (min./nom./max.)	%	69,5/- 71,0	65,0/- 69,0	60,5/- 67,0	64,5/- 66,5	61,5/- 64,0	64,0/- 65,5	60,5/- 64,5	64,0/- 67,0	60,5/- 65,5
Dimensions (HxWxD)	mm	290 x 900 x 900	290 x 900 x 900	290 x 900 x 900	350 x 1140 x 1140	350 x 1140 x 1140	400 x 1189 x 1189	400 x 1189 x 1189	810 x 1189 x 1189	810 x 1189 x 1189
Air connections diameter	mm	100	150	150	200	200	250	250	250	250
Weight	kg	36	36	38	53	53	70	62	126	126
Price	€	2.310,-	2.365,-	2.535,-	3.235,-	3.850,-	4.465,-	5.075,-	8.440,-	9.740,-

ACCESSORIES	DESCRIPTION	PRICE €
NRC-01HE	Wired remote control	160,-
NRB-1HE	Adapter for digital switching functions: On/Off, bypass, low/high (not for M1000HE1, M1500HE1, M2000HE1 & SMMSu)	160,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-

You will find all the control options from page 203.

Filter efficiency grade: 82%

Outdoor temperature: -15°C ~ 43°C, 80% relative humidity or below

Unit ambient temperature: -10°C ~ +40°C, 80% relative humidity or below

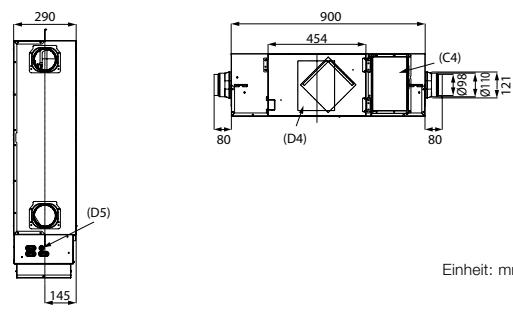
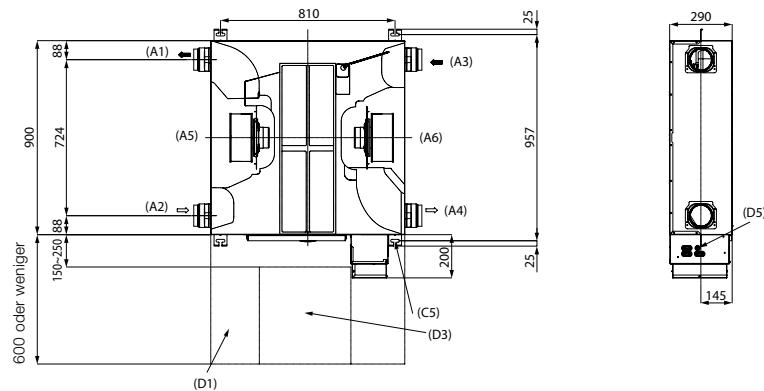
Exhaust air temperature: +5°C ~ +40°C, 80% relative humidity or below

If the temperature of the outdoor air drops below -10°C, the unit switches to "Cold Operation" mode (interruption of the outdoor air supply / bypass mode).

The unit cannot be used below -15°C.

The fan for the air supply stops; the fan for exhaust air can also be programmed to stop.

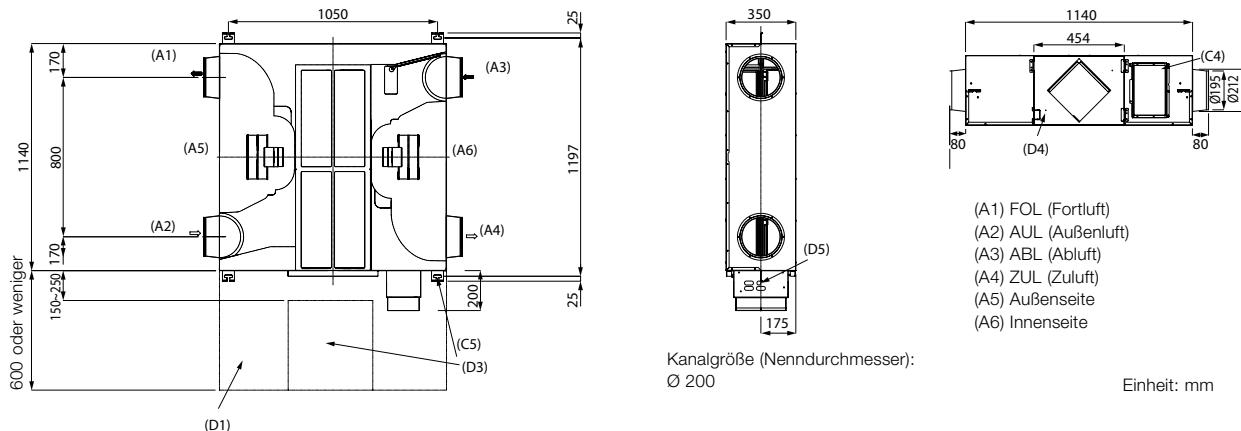
AIR-TO-AIR HEAT EXCHANGERS VN-M150HE TO M350HE



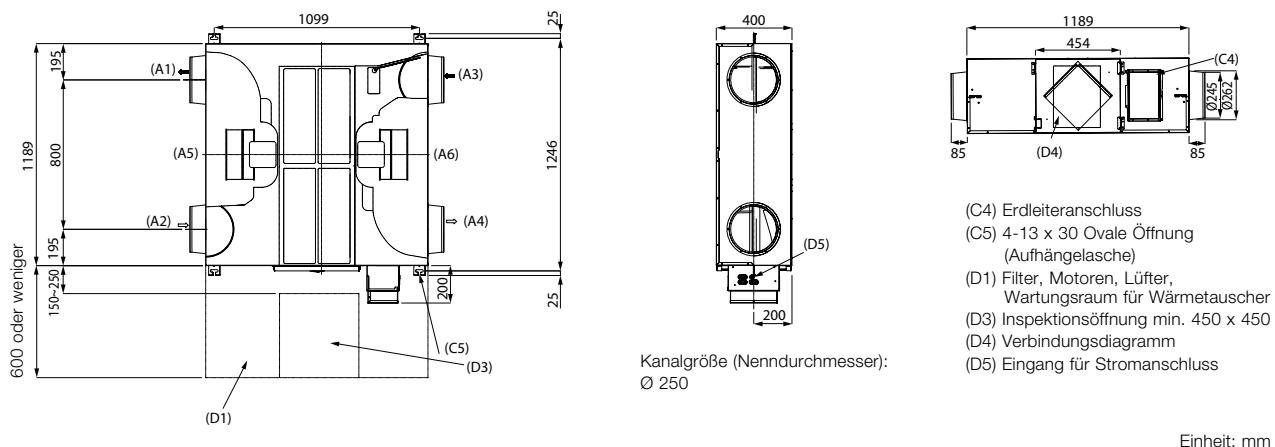
Einheit: mm

Duct size (nominal diameter): Ø 100 (M150HE)
Duct size (nominal diameter): Ø 150 (M250HE, M350HE)

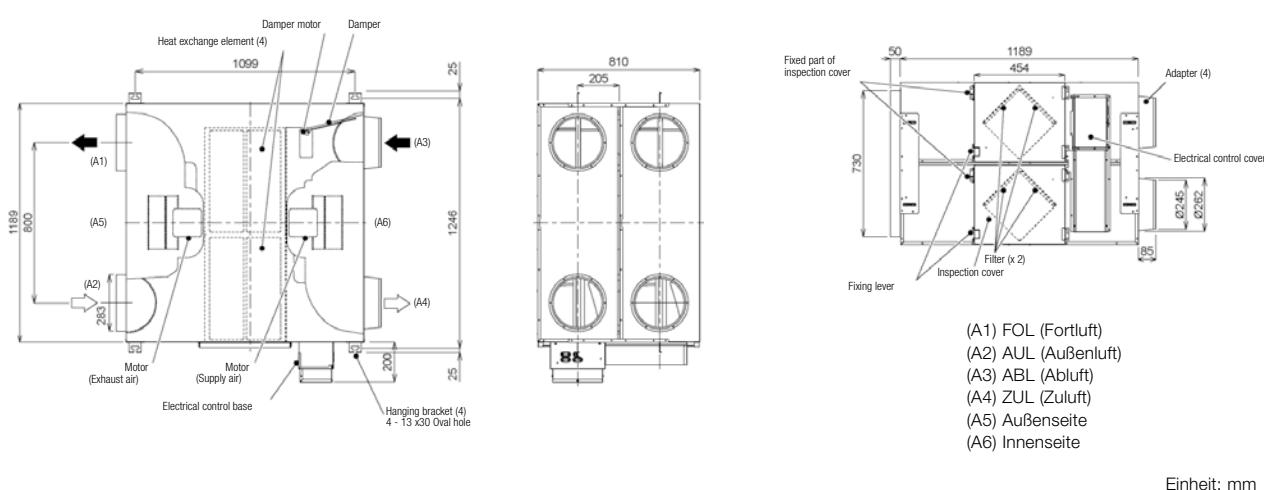
VN-M500HE, M650HE



VN-M800HE, M1000HE1



VN-M1500HE1, M2000HE1



Air-to-air heat exchangers and direct expansion heat exchangers with humidifier

- › Air-to-air cross-flow heat exchanger with DX-coil for heating + cooling
- › Up to 75% energy recovery
- › Not a stock item – lead time on request



INDOOR UNIT		MMD-VN502HEX1E	MMD-VN802HEX1E	MMD-VN1002HEX1E	MMD-VNK502HEX1E	MMD-VNK802HEX1E	MMD-VNK1002HEX1E
Cooling capacity	kW	4,10	6,56	8,25	4,10	6,56	8,25
Heating capacity	kW	5,53	8,61	10,92	5,53	8,61	10,92
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Temperature exchange efficiency (min./nom./max.)	%	70,5/- 71,5	70/-72,5	65,5/- 67,5	70,5/- 71,5	70/-72,5	65,5/- 67,5
Enthalpy exchange efficiency (min./nom./max.)	%	56,5/- 57,5	56,0/- 59,0	52,0/- 54,0	56,5/- 57,5	56,0/- 59,0	52,0/- 54,5
Enthalpy exchange efficiency (min./nom./max.)	*	68,5/- 69,0	70,0/- 73,0	66,0/- 68,5	68,5/- 69,0	70,0/- 73,0	66,0/- 68,5
Heat exchanger mode power consumption (min./nom./max.)	W	235/280/ 300	335/465/ 505	485/545/ 550	240/285/ 305	350/485/ 530	520/565/ 575
Running current	A	1,03/1,24/ 1,33	1,54/2,14/ 2,37	2,31/2,51/ 2,56	1,03/1,24/ 1,33	1,54/2,14/ 2,37	2,31/2,51/ 2,56
Running current	A	1,03/1,24/ 1,33	1,54/2,14/ 2,37	2,31/2,51/ 2,56	1,03/1,24/ 1,33	1,54/2,14/ 2,37	2,31/2,51/ 2,56
Airflow (min./nom./max.)	m³/h	440/500/ 500	640/800/ 800	820/950/ 950	440/500/ 500	640/800/ 800	820/950/ 950
External static pressure	Pa	105 - 120	100 - 120	105 - 135	85 - 95	85 - 105	90 - 115
Airflow limit	m³/h	440 - 500	640 - 800	820 - 950	440 - 500	640 - 800	820 - 950
Humidification capacity	kg/h	3,0	5,0	6,0	3,0	5,0	6,0
Humidification water pressure	bar	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9
Sound pressure level (low/med/high)	dB(A)	34,5/36,5/ 37,5	38/40/41	40/42/43	33,5/35,5/ 36,5	38/39/40	39/41/42
Sound pressure level (low/med/high)	dB(A)	34,5/36,5/ 37,5	38/40/41	40/42/43	33,5/35,5/ 36,5	38/39/40	39/41/42
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP25 (25/32)					
Water connection	Inch	1/2	1/2	1/2	1/2	1/2	1/2
Dimensions (HxWxL)	mm	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739
Air connections diameter	mm	200	250	250	200	250	250
Weight	kg	84	100	101	91	111	112
Price	€	5.830,-	7.000,-	8.160,-	7.755,-	10.430,-	12.080,-

ACCESSORIES	DESCRIPTION	PRICE €
NRC-01HE	Wired remote control	160,-
TCB-DP31HEXE	Drain pump for all ventilation systems	925,-
NRB-1HE	Adapter for digital switching functions: On/Off, bypass, low/high (not for M1000HE1, M1500HE1, M2000HE1 & SMMSu)	160,-

You will find all the control options from page 203.

Filter efficiency grade: 82%

Outdoor temperature: -15°C ~ 43°C, 80% relative humidity or below

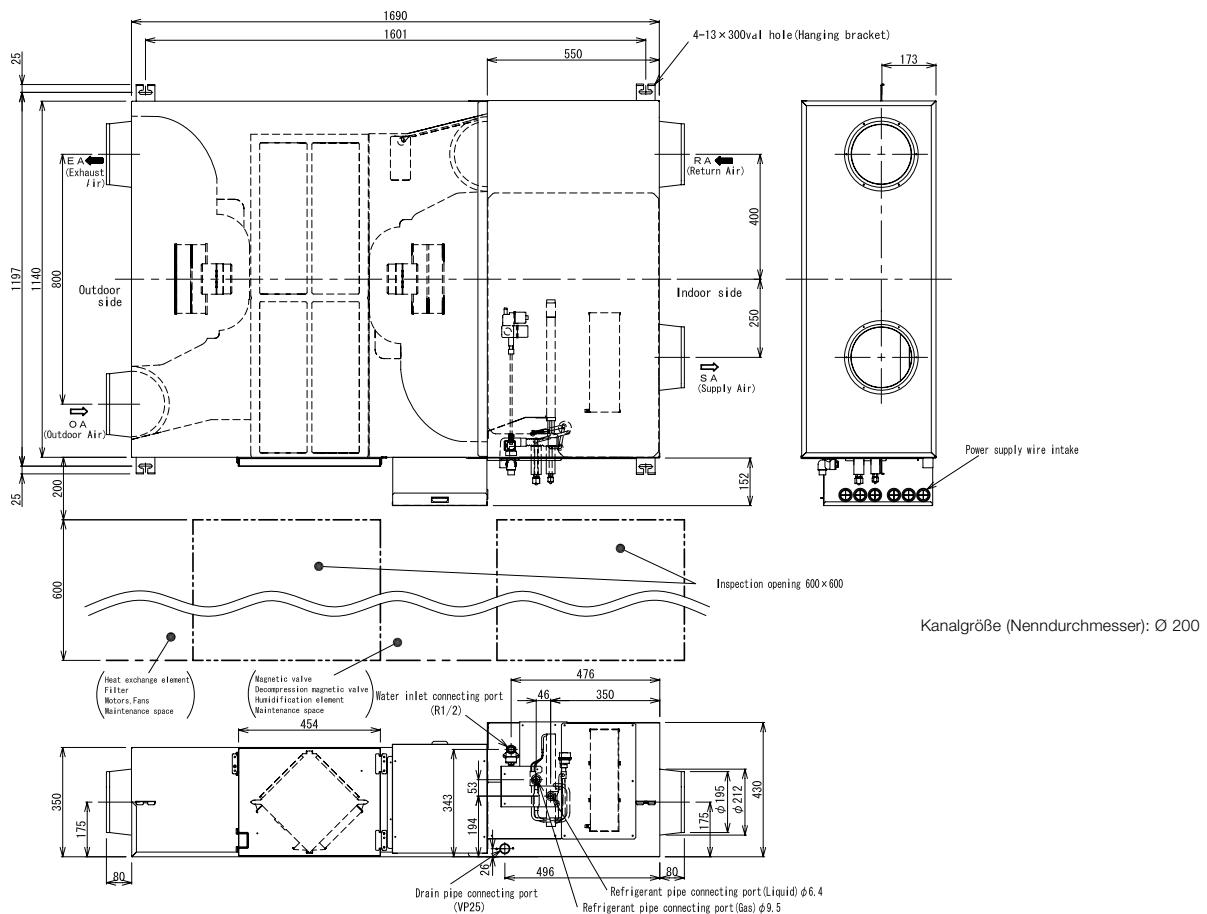
Unit ambient temperature: -10°C ~ +40°C, 80% relative humidity or below

Exhaust air temperature: +5°C ~ +40°C, 80% relative humidity or below

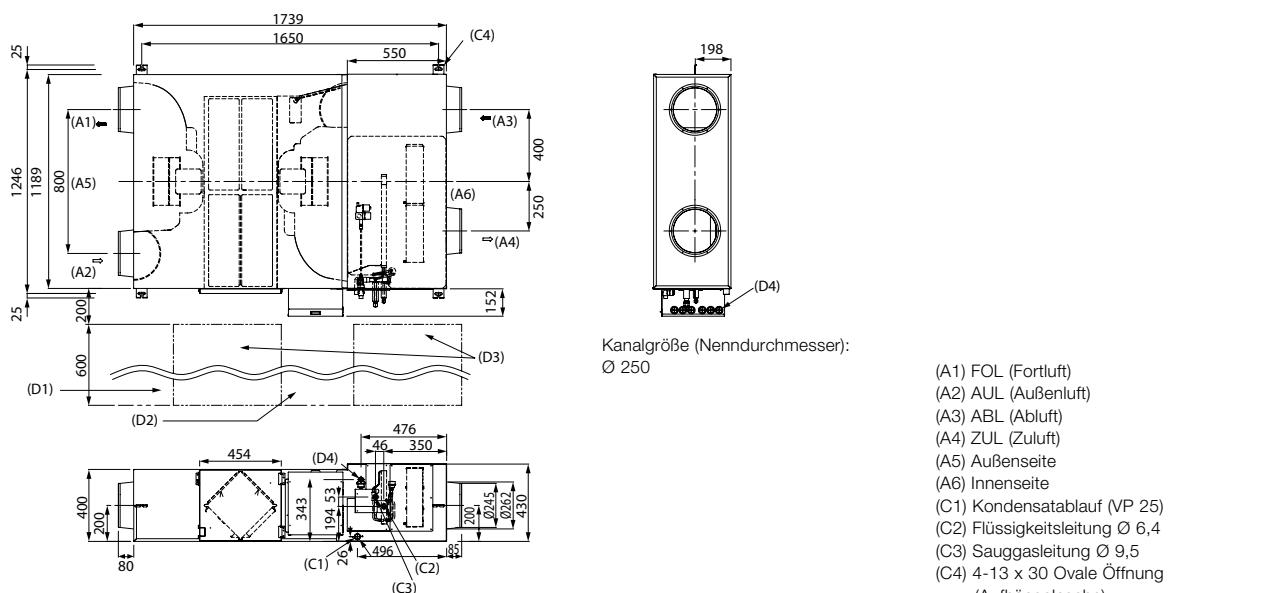
If the temperature of the outdoor air drops below -10°C, the unit switches to "Cold Operation" mode (interruption of the outdoor air supply / bypass mode). The unit cannot be used below -15°C.

The fan for the air supply stops; the fan for exhaust air can also be programmed to stop.

AIR-TO-AIR HEAT EXCHANGERS AND DIRECT EXPANSION HEAT EXCHANGERS (WITH DEHUMIDIFICATION) MMD-VN(K)502HEX1E



MMD-VN(K)802HEX1E AND MMD-VN(K)1002HEX1E



Achtung

1. Kanalgröße (Nenndurchmesser Ø 250)
2. Bei diesen Maßangaben wird die Stärke der Isolationsschicht am Gerätegehäuse nicht berücksichtigt.

HRV air-to-air heat exchangers with heat recovery



- Air-to-air cross-flow heat exchanger for stand-alone operation
- New chassis in four sizes
- DC fan motor
- Wide operating temperature range
- Enthalpy exchange efficiency of up to 88%
- Conforms to the ENTR LOT 6, Tier 2 requirements
- An optional CO₂/PM sensor adapts the fan speed to suit the room air quality status
- Integrated standard air filter
- Optional high-performance air filter
- Ventilation control screen with RBC-AMSU52-E / AWSU52-E remote control
- Display with information about the room air quality, temperatures, and humidity
- Convenient control of all air handling functions
- The DC motor provides flexible management of the air volume and automatic stable adaptation of the air volume.
- An electric air flap on the fresh air inlet and a wind-proof non-return flap on the outgoing air side prevents outdoor air from entering when the unit is switched off.

Versatile air handling options when integrated into SMMSu systems:

- Operation with delay: Operation of the HRV air handling unit is delayed in 10-minute increments for 10 to 60 minutes.
- 24-hour ventilation: The HRV air handling unit works continuously, even if the air conditioning system is switched off.
- Overnight heat removal: Removes hot air from the room in bypass mode and reduces the cooling load in the morning.
- Automatic ventilation mode: The ventilation mode is automatically switched according to the operating status of the air conditioning system and the information from room and outdoor air temperature sensors in the unit (cooling, heating, drying, fan, or temperature setting).

➤ Not a stock item – lead time on request

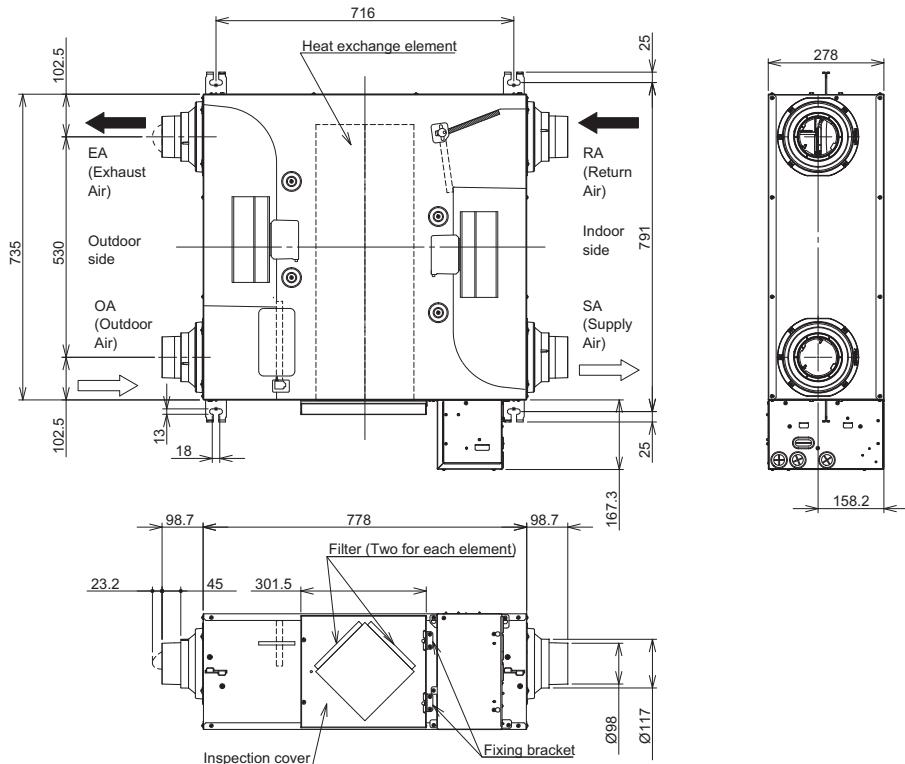
INDOOR UNIT		VN-U00151SY-E	VN-U00251SY-E	VN-U00351SY-E	VN-U00501SY-E	VN-U00651SY-E	VN-U00801SY-E	VN-U01001SY-E
Power supply	V/Ph+N/Hz	220-240/1+N/50						
Heat exchanger mode power consumption (min./nom./max.)	W	28/35/43/56	29/39/57/75	39/59/92/152	51/60/105/174	55/96/176/306	62/114/196/328	74/151/291/541
Airflow (min./nom./max.)	m ³ /h	73/95/120/150	100/145/210/250	140/210/280/350	260/300/400/500	260/390/520/650	320/480/640/800	400/600/800/1000
External static pressure	Pa	26/43/60/90	06/30/53/75	26/57/100/160	39/45/80/125	29/58/100/150	28/53/92/145	30/60/110/170
Sound pressure level (low/med/high)	dB(A)	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Sound pressure level (low/med/high)	dB(A)	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Temperature exchange efficiency (min./nom./max.)	%	83,0/83,5/84,5/85,0	80,0/80,5/82,0/84,0	81,0/81,5/84,0/87,0	79,0/79,5/80,0/80,5	77,0/77,5/78,0/79,0	78,0/79,0/84,0/91,0	78,0/78,5/80,0/87,0
Enthalpy exchange efficiency (min./nom./max.)		76,0/80,0/81,0/82,0	75,0/76,0/78,0/81,0	73,0/76,0/80,0/84,0	73,0/76,0/80,0/84,0	70,0/72,0/74,0/76,0	73,0/74,0/80,0/88,0	72,0/73,0/75,0/83,0
Enthalpy exchange efficiency (min./nom./max.)	%	66,0/73,0/75,0/77,0	65,0/68,0/71,0/75,0	64,0/67,0/71,0/76,0	64,0/66,0/68,0/69,0	60,0/62,0/66,0/69,0	64,0/67,0/73,0/81,0	62,0/63,0/68,0/77,0
Dimensions (HxWxD)	mm	778 x 735 x 278	778 x 735 x 278	880 x 880 x 305	920 x 1020 x 337	920 x 1020 x 337	1130 x 1230 x 386	1130 x 1230 x 386
Air connections diameter	mm	100	150	150	200	200	250	250
Weight	kg	29	29	40	47	47	63	63
Price	€	1.950,-	2.000,-	2.350,-	2.750,-	3.100,-	3.800,-	4.150,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-SFMCA1V-E	Multifunctional air quality sensor for CO ₂ and PM2.5 particle concentration	960,-
TCB-PSFC551VSY-E	High performance filter (ePM1 55%) for model size 015/025	Not a stock item – lead time on request 90,-
TCB-PSFC551VMY-E	High performance filter (ePM1 55%) for model size 035	Not a stock item – lead time on request 105,-
TCB-PSFC551VLY-E	High performance filter (ePM1 55%) for model size 050/065	Not a stock item – lead time on request 140,-
TCB-PSFC551VXY-E	High performance filter (ePM1 55%) for model size 080/100	Not a stock item – lead time on request 170,-
TCB-KBCN610V-E	CN610 - DO: cold air detection	12,-
TCB-KBCN704V-E	CN704 - DO: supply fan ON, external damper, alarm, bypass mode	15,-
TCB-KBCN705V-E	CN705 - DI: remote controller prohibition, ventilation fan speed, ventilation mode, ON/OFF linked	110,-
TCB-KBCN706V-E	CN706 - DI: ON/OFF, ON/OFF linked	12,-

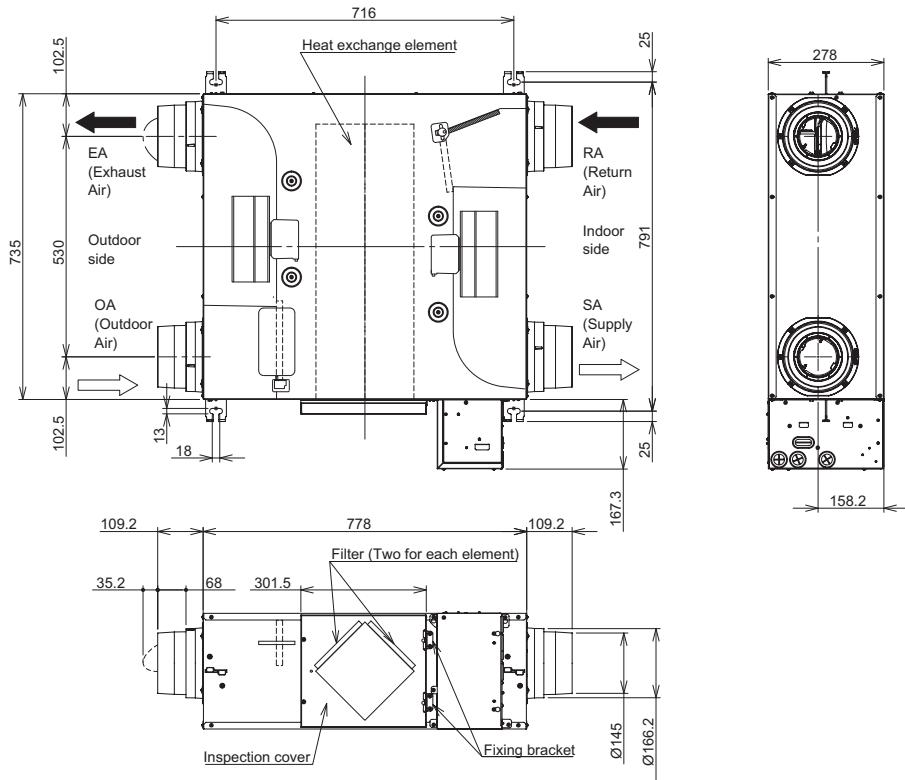
You will find all the control options from page 203.

HRV AIR-TO-AIR HEAT EXCHANGERS WITH HEAT RECOVERY

VN-U00151SY*

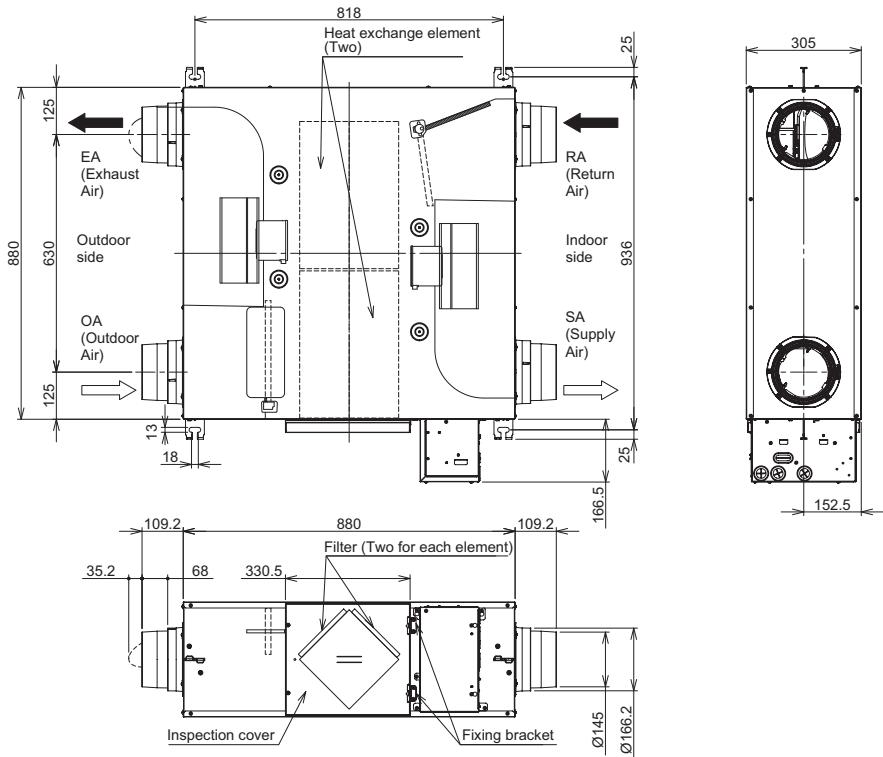


VN-U00251SY*

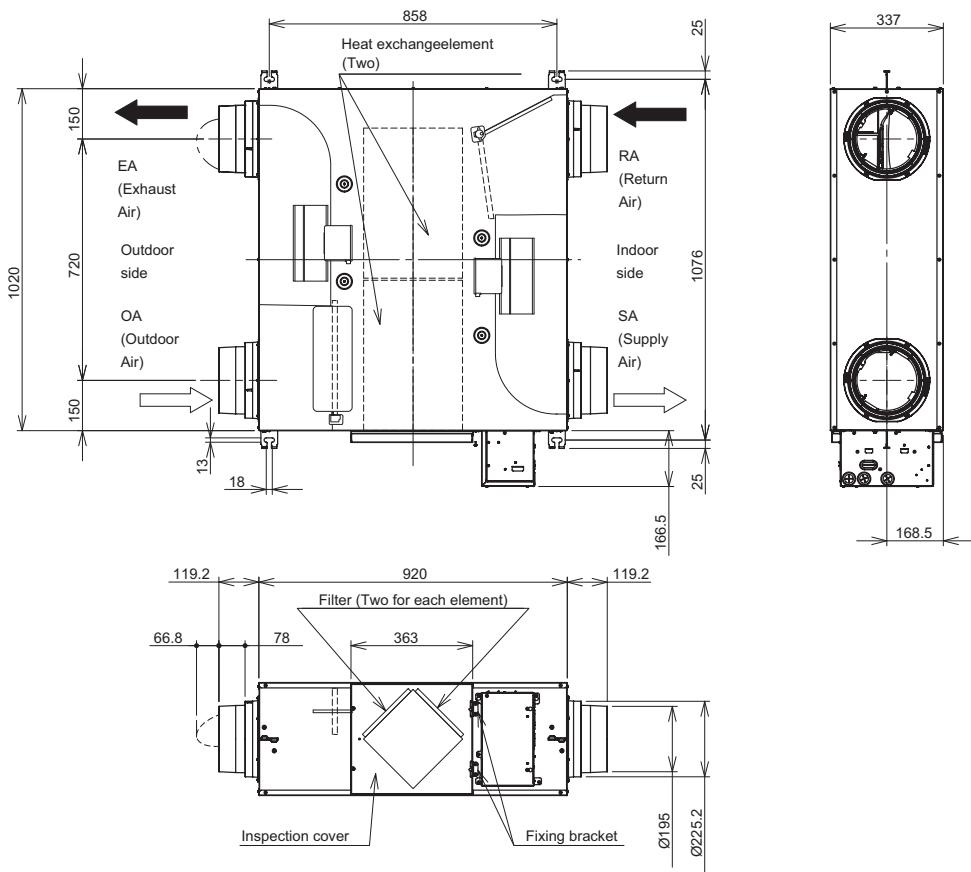


HRV AIR-TO-AIR HEAT EXCHANGERS WITH HEAT RECOVERY

VN-U00351SY*

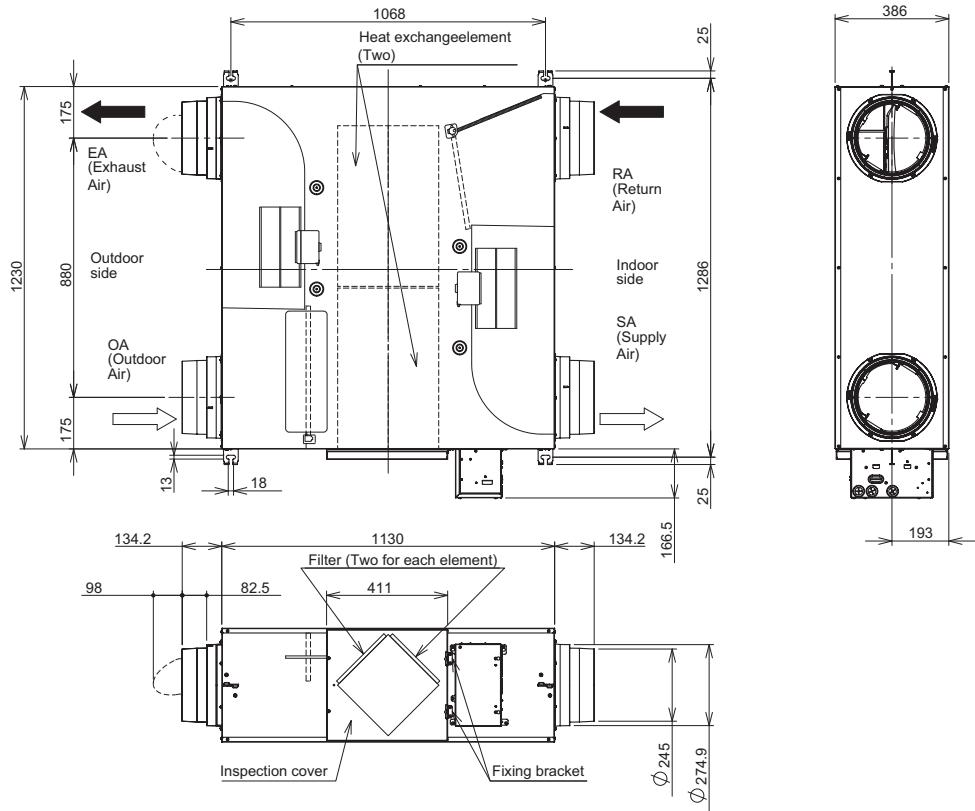


VN-U00501SY*, VN-U00651SY*



HRV AIR-TO-AIR HEAT EXCHANGERS WITH HEAT RECOVERY

VN-U00801SY*, VN-U01001SY*



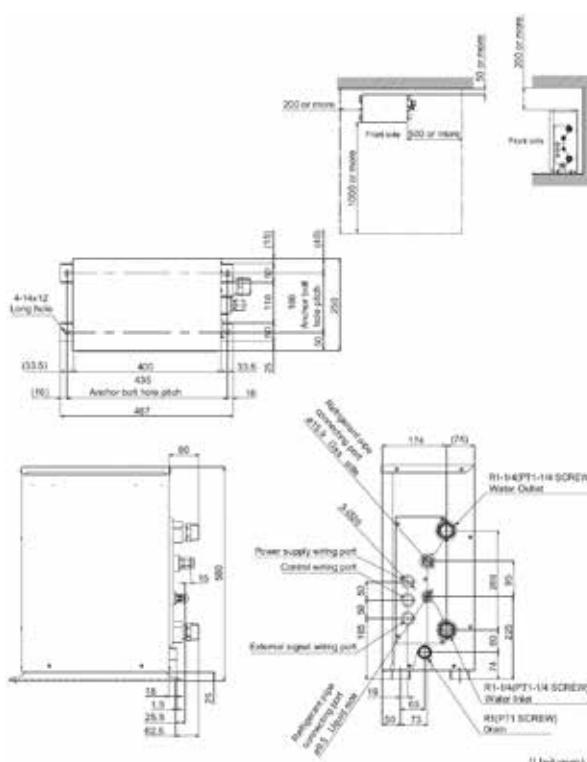
Hot water module MT (2&3-pipe)

- Efficient preparation of hot water for room heating + domestic hot water
- Hot water preparation up to +50°C.



INDOOR UNIT		MMW-UP0271LQ-E	MMW-UP0561LQ-E
Heating capacity	kW	8,00	16,00
Power consumption (min./nom./max.)	kW	0,014	0,014
Running current	A	0,08	0,08
Sound pressure level (low/med/high)	dB(A)	25,0	27,0
Water flow rate (standard)	m³/h	1,37	2,75
Water flow rate (min.)	m³/h	1,17	2,33
Pressure loss (standard water flow rate)	bar	0,40	0,44
Operating range, indoor, DB (min.-max.)	°C	+5 / +32	+5 / +32
SMMS-e operating range, outdoor, DB (min.-max.)	°C	-25 / +21	-25 / +21
SMMS-e operating range, outdoor, WB (min.-max.)	°C	-25 / +19	-25 / +19
SHRM-e operating range, outdoor, DB (min.-max.)	°C	-25 / +40	-25 / +40
SHRM-e operating range, outdoor, WB (min.-max.)	°C	-25 / +28	-25 / +28
Water inlet operating range (min.-max.)	°C	+15 / +45	+15 / +45
Water outlet operating range (min.-max.)	°C	+25 / +50	+25 / +50
Water connection	Inch	1 ¼	1 ¼
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Dimensions (HxWxD)	mm	580 x 400 x 250	580 x 400 x 250
Weight	kg	17,80	20,30
Price	€	4.390,-	4.515,-

Nominal conditions: Incoming heat exchanger temperature 30°C, outlet temperature 35°C, outdoor temperature 7°C DB / 6°C WB

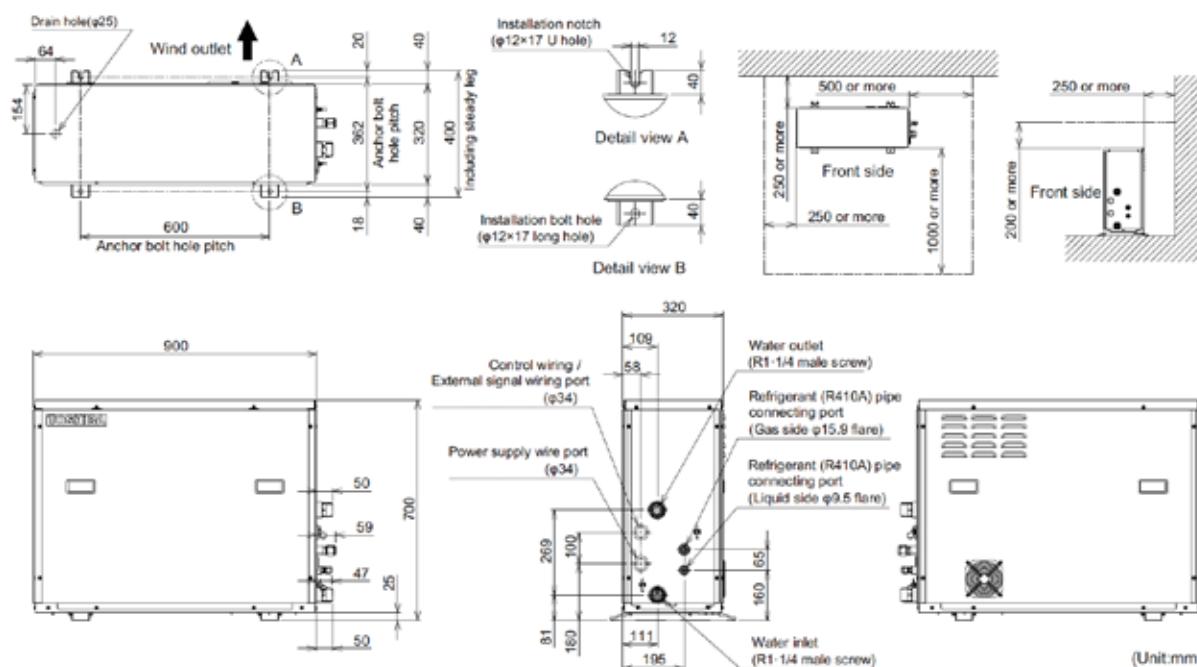


Hot water module HT (3-pipe)

- Efficient preparation of hot water for room heating + domestic hot water
- Hot water preparation up to +82°C via cascade
- Compatible with SHRMe outdoor units
- Not a stock item – lead time on request



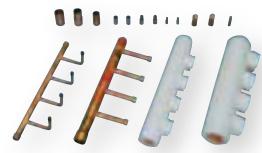
INDOOR UNIT		MMW-AP0481CHQ-E
Heating capacity	kW	14,00
Power consumption (min./nom./max.)	kW	- / - / 4,15
Sound pressure level (low/med/high)	dB(A)	44,0
Water flow rate (standard)	m³/h	2,40
Water flow rate (min.)	m³/h	2,00
Pressure loss (standard water flow rate)	bar	0,15
SHRM-e operating range, outdoor, DB (min.-max.)	°C	-25 / +40
SHRM-e operating range, outdoor, WB (min.-max.)	°C	-25 / +28
Water outlet operating range (min.-max.)	°C	+50 / +82
Water connection	Inch	1 1/4
Liquid pipe diameter	mm (inch)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)
Condensate pipe diameter	mm	15
Running current (max.)	A	17,50
Power supply	V/Ph+N/Hz	220-240/1+N/50
Recommended fusing	A	20
Cascade refrigerant		R134a
Cascade charge	kg	2,1
Dimensions (HxWxD)	mm	700 x 900 x 320
Weight	kg	100
Price	€	10.635,-





SMMSu / MiNi SMMSe (2-pipe system) branches

Y-branch (two per packaging unit)



ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BY55E	Y-branch for indoor units (2-pipe system)	< 18	< 6,4	130,-
RBM-BY105E	Y-branch for indoor units (2-pipe system)	18 - < 56	6,4 - < 20,2	145,-
RBM-BY205E	Y-branch for indoor units (2-pipe system)	56 - < 70,5	20,2 - < 25,2	250,-
RBM-BY305E	Y-branch for indoor units (2-pipe system)	≥ 70,5	≥ 25,2	315,-
RBM-BY405E	Y-branch for indoor units (2-pipe system) (SMMSu)	≥ 170	≥ 61,2	475,-

4/8-branch (two per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-HY1043E	4-way branch for indoor units (2-pipe system)	< 40	< 14,2	300,-
RBM-HY2043E	4-way branch for indoor units (2-pipe system)	40 - < 70,5	14,2 - < 25,2	320,-
RBM-HY1083E	8-way branch for indoor units (2-pipe system)	< 40	< 14,2	475,-
RBM-HY2083E	8-way branch for indoor units (2-pipe system)	40 - < 70,5	14,2 - < 25,2	555,-

Connection kit (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BT14E	Y-connection kit for outdoor units (2-pipe system)	< 73	< 26	400,-
RBM-BT24E	Y-connection kit for outdoor units (2-pipe system)	> 73	> 26	455,-
RBM-BT34E	Y-connection kit for outdoor units (2-pipe system) (SMMSu)	≥ 128,5	≥ 46	715,-

SHRMe / SHRMa (3-pipe system) branches



Y-branch (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BY55FE	Y-branch for indoor units (3-pipe system)	< 18	< 6,4	180,-
RBM-BY105FE	Y-branch for indoor units (3-pipe system)	18 - < 40	6,4 - < 14,2	205,-
RBM-BY205FE	Y-branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	290,-
RBM-BY305FE	Y-branch for indoor units (3-pipe system)	≥ 70,5	≥ 25,2	395,-

4/8-branch (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-HY1043FE	4-way branch for indoor units (3-pipe system)	< 40	< 14,2	555,-
RBM-HY2043FE	4-way branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	590,-
RBM-HY1083FE	8-way branch for indoor units (3-pipe system)	< 40	< 14,2	740,-
RBM-HY2083FE	8-way branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	800,-

Connection kit (four per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BT14FE	Y-connection kit for outdoor units (3-pipe system)	< 73	< 26	400,-
RBM-BT24FE	Y-connection kit for outdoor units (3-pipe system)	> 73	> 26	475,-

Wiring / electrical installation

GENERAL

- Connection of the power supply in accordance with the specifications of the local energy supplier.
- Connection of the power supply to the indoor unit and wiring for the indoor and outdoor units are described in the indoor unit installation instructions.
- Never apply voltage across U1/U2, U3/U4, U5/U6!
- Run electrical cables so that they do not touch any hot parts.
- After connecting the distributor box, remove the flap and fix the cables with cable ties.
- During the evacuation stage, do not supply power to the indoor unit.

SUMMARY OF THE ELECTRICAL INSTALLATION WORK

EXTERNAL POWER CONNECTION

- Carry out the electrical installation work in accordance with the applicable standards.

INTERNAL POWER CONNECTION

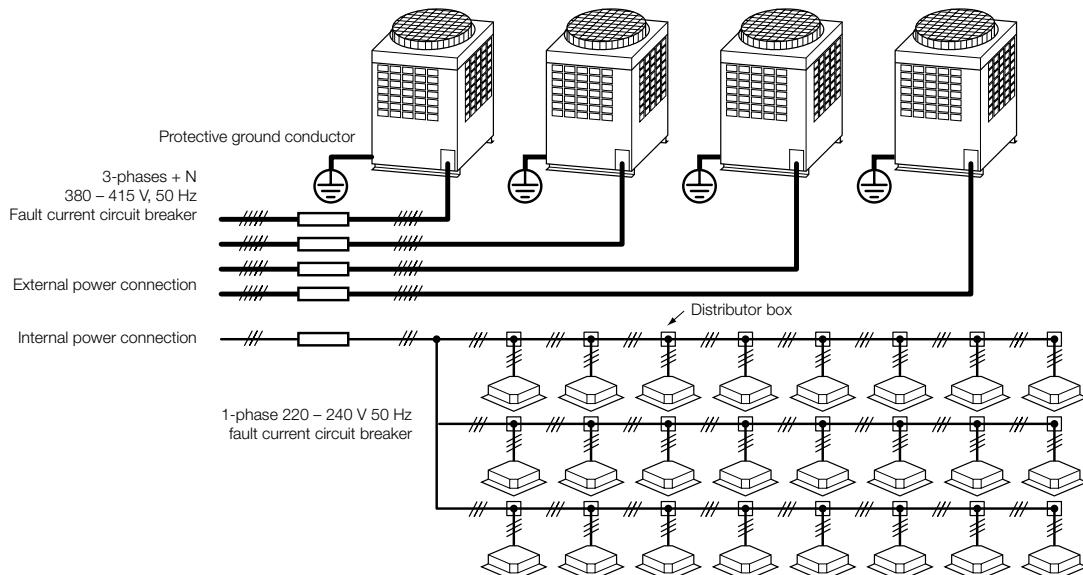
- Base the electrical installation on the total current of the indoor units.
- The wire cross-section is determined by the length.

CONTROL CABLES

- Control cables:
 - Between outdoor and indoor units
 - Between indoor unit and remote control, central control unit, building management system
- Wire cross-sections depend on the length

POWER SUPPLY LINES

- Piping dimensioning must conform to local and national regulations.
- Define the piping dimensioning for an indoor unit according to the number of indoor units connected downstream of it.



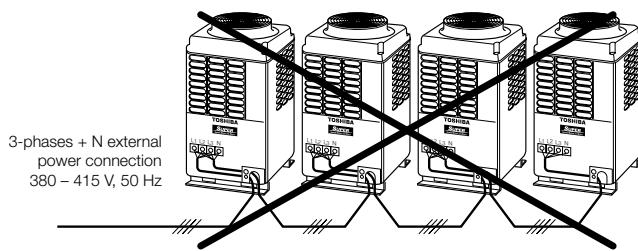
Designations of the bus connections correspond to SMMSe.

For SMMSu systems:

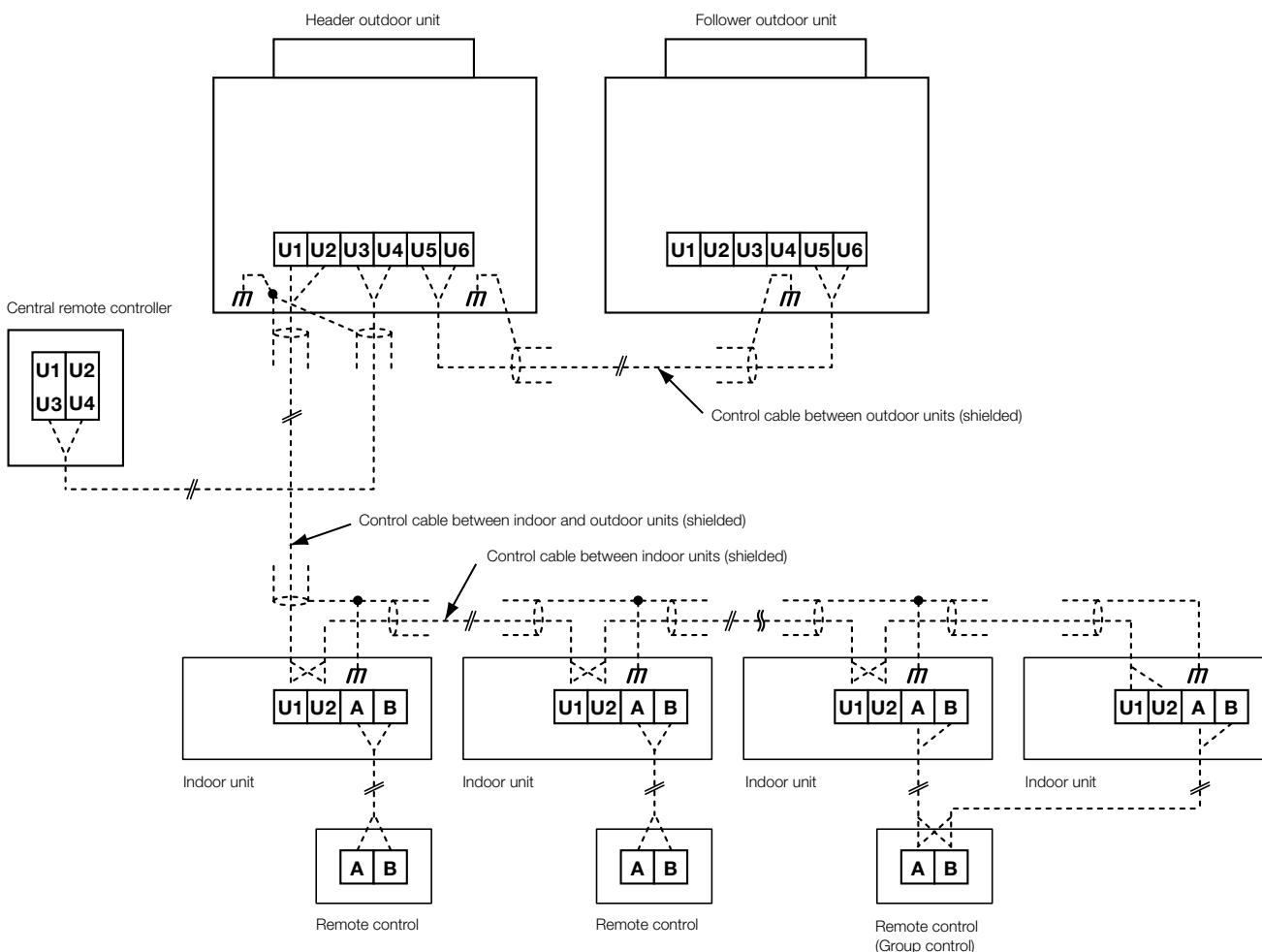
Outdoor unit -> indoor units: U1, U2 becomes UV
Central remote controller U3, U4 becomes Uh
Outdoor unit -> outdoor unit: U5, U6 becomes Uc

POWER SUPPLY TO OUTDOOR UNIT

- Define the power connection and fusing of each outdoor unit according to the following specification: Cables in compliance with design 60245 IEC 6
- When connecting outdoor units, do not run electrical cables on top of one another; use a distributor box (L1, L2, L3, N)



BUS LINE DESIGN

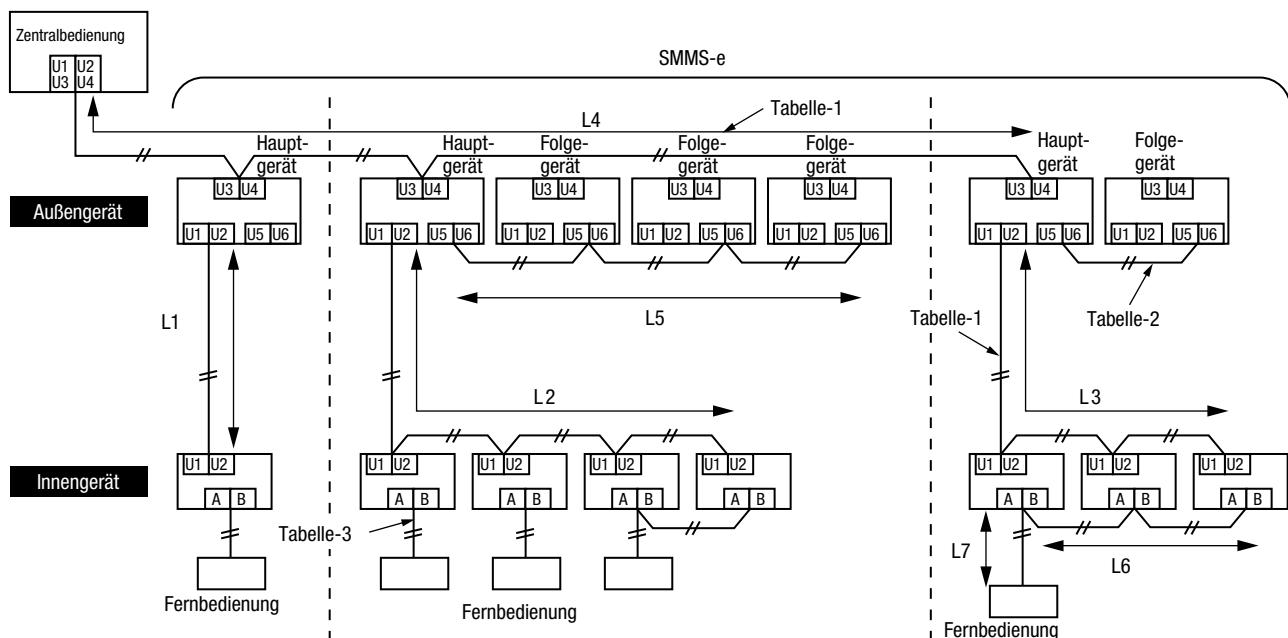


Designations of the bus connections correspond to SMMSe.

For SMMSu systems:

Outdoor unit -> indoor units: U1, U2 becomes Uv
Central remote controller U3, U4 becomes Uh
Outdoor unit -> outdoor unit: U5, U6 becomes Uc

RESTRICTION OF THE COMMUNICATIONS WIRING



Control cable between indoor and outdoor units (L1, L2, L3)
Central control cable (L4)

Wiring	2-pole line, no polarity
Type	Shielded, flexible
Size / length	1.25 mm ² : up to 1000 m / 2.0 mm ² : up to 2000 m (*)

Control cable between outdoor units (L5)

Wiring	2-pole line, no polarity
Type	Shielded, flexible
Size / length	1.25 mm ² to 2.0 mm ² / up to 100 m (L5)

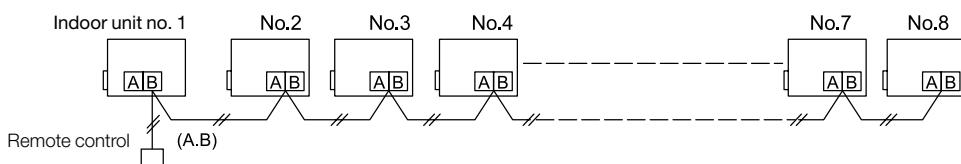
Note (*): Total length of all control cables for all refrigerant circuits
(L1 + L2 + L3 + L4)

Remote control cable (L6, L7)

Cable	2-pole
Dimensions	0.5 mm ² to 2.0 mm ²
Size / length	<ul style="list-style-type: none"> ➤ Up to 500 m (L6 + L7) ➤ Up to 400 m for a wireless remote control for group control. ➤ Up to 200 m total length for control cables between indoor units (L6).

GROUP CONTROL BY REMOTE CONTROL

- Group control of several indoor units (8 units) with a wired remote control



Designations of the bus connections correspond to SMMSe.

For SMMSu systems:
Outdoor unit -> indoor units: U1, U2 becomes Uv

Central remote controller U3, U4 becomes Uh

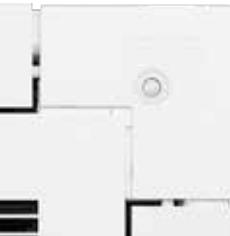
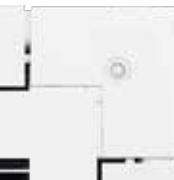
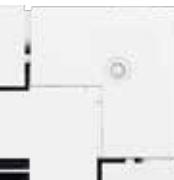
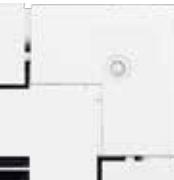
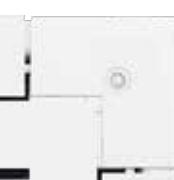
Outdoor unit -> outdoor unit: U5, U6 becomes Uc

Local wired remote controls

TYPE / DESCRIPTION	PRICE €	
	RBC-AS41E Simplified wired remote control • To control all main functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes cannot be set	150,-
	RBC-AMTU31-E Standard Wired Remote Control • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • 168 hour On/Off timer • DN codes can be set	150,-
	RBC-AMS41E Wired remote control with integrated weekly timer • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Weekly timer integrated, 8 events/day, 6 parameters/event can be programmed • DN codes can be set	160,-
	RBC-ASCU11-E Compact wired remote control • Slimline version of standard wired remote control • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • Off timer • DN codes can be set	100,-
	RBC-AMSU52-E Wired comfort remote control PLUS • Design & function update for the wired comfort remote control • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	205,-
	RBC-AWSU52-E Wired comfort remote control PLUS BT • Design & function update for the wired comfort remote control • With BLUETOOTH support for smartphones • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	225,-
	RBC-MTSC1 Local touch lite remote control • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Controlled via 4.5\\\" color touch display • Personalized graphics for screen & logo via upload (480x272) • DN codes can be set • Not a stock item - lead time on request	540,-
	TCB-TC41U-E Remote Temperature Sensor • Compatible with all indoor units that have an A/B remote control bus • When exact temperature measurement is not possible using the sensor in the indoor unit or in the wired remote control. • Takes priority over the unit and remote control sensor	135,-

Local infrared remote controls

TYPE / DESCRIPTION	PRICE €
 <p>RBC-AXU31-E Infrared remote control with external receiver kit for all indoor units</p> <ul style="list-style-type: none"> • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set 	460,-
 <p>RBC-AXU31C-E Infrared remote control + receiver kit for installation in ceiling unit</p> <ul style="list-style-type: none"> • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set 	355,-
 <p>RBC-AXU31UW-E Infrared remote control + receiver kit for installation in 2-way cassette</p> <ul style="list-style-type: none"> • To control all the functions of an indoor unit, or a group of up to 16 indoor units. • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set 	375,-
 <p>RBC-AX33UYP-E Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu)</p> <ul style="list-style-type: none"> • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set 	80,-
 <p>RBC-AXU31UM-E Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)</p> <ul style="list-style-type: none"> • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set 	180,-
 <p>RBC-AXU31UMP-E Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette b/w</p> <p>RBC-AXU31UMPB-E Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette b/w</p>	170,-
 <p>RBC-AXU41U-E Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette</p>	315,-
 <p>RBC-AXU33UP-E Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, WHITE</p>	215,-
 <p>RBC-AXU33UPB-E Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK</p>	235,-

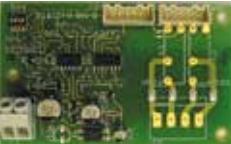
TYPE / DESCRIPTION	PRICE €
	325,-
RBC-AXU31U-E Infrared remote control + receiver kit for installation in 4-way standard cassette	
<ul style="list-style-type: none"> • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set 	
	130,-
TCB-SIR41UM-E Occupancy sensor kit for installation in 60x60 slim cassette	
<ul style="list-style-type: none"> • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode • Requires RBC-AMSU52-E wired remote control • Required for every cassette in the group in the case of group control 	
	120,-
TCB-SIR41UMP-E Occupancy sensor kit WHITE for installation in 60x60 slim cassette b/w	
	130,-
TCB-SIR41U-E Occupancy sensor kit for installation in smart cassette	
<ul style="list-style-type: none"> • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode • Requires RBC-AMSU52-E wired remote control • Required for every cassette in the group in the case of group control 	
	125,-
TCB-SIR33UP-E Occupancy sensor kit for installation in FLAT Panel	
	120,-
TCB-SIR41UYP-E Occupancy sensor kit for installation in 1-way cassette (SMMSU)	
<ul style="list-style-type: none"> • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode • Requires RBC-AMS55E-ES wired remote control • Required for every cassette in the group in the case of group control 	

Mobile / APP / KNX® control options

TYPE / DESCRIPTION	PRICE €
 <p>AP-IR-WIFI-5 WiFi module to control all functions of an indoor unit using an app on a cell phone</p> <ul style="list-style-type: none"> • Temperature and humidity alarm configurable • Compatible with all indoor units that have a standard infrared remote control • WLAN and internet access required • Free app for iOS or Android • Not a stock item - lead time on request • for cassette + duct unit only 	350,-
 <p>TO-RC-KNX-1i Module for controlling all the functions of an indoor unit via the KNX® Bus.</p> <ul style="list-style-type: none"> • Compatible with all indoor units that have an A/B remote control bus • KNX® bus system required 	580,-
 <p>BMS-IWF0010UCP-E WiFi 1:1 interface for mobile control via smartphone or tablet</p> <ul style="list-style-type: none"> • WiFi 1:1 interface for mobile control via smartphone or tablet • Compatible with all indoor units that have an A/B remote control bus • Controls all main functions of an indoor unit or a group of up to 16 indoor units • Energy monitoring for RAV systems • Read out of error codes possible • Internet/intranet access required • Free app for iOS (from 9.0) or Android (from 5.0) 	180,-



Local control options

TYPE / DESCRIPTION	PRICE €
	75,-
TCB-IFCB5-PE External on/off PCB, window contact module <ul style="list-style-type: none">• Potential-free contact for on/off and window contact input.• Remote ON/OFF function	75,-
TCB-PX100-PE Casing for outdoor installation of window contact module for high-wall units	50,-
TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	135,-
TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	135,-
	200,-
TCB-PCUC2E Control board for external control, alarms and messages <ul style="list-style-type: none">• Connection to CN521• 3 analog inputs• 3 potential-free digital inputs/outputs• Input and output functions configurable via rotary switch	200,-
TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	135,-
TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	135,-
	475,-
TCB-IFCB-4E2 Operating, error signal, remote On/Off module <ul style="list-style-type: none">• Operating and error signal output• Can be connected to the master unit of a group to handle the I/O control and error messages of up to 16 indoor units• For connecting to a CN61• Potential-free contact	475,-
	760,-
RBC-FDP3-PE Analog Interface <ul style="list-style-type: none">• Compatible with all indoor units that have an A/B remote control bus• Controls all main functions via 0-10V signals or fixed resistors• Operating and error signal output• Modbus connection possible	760,-
	595,-
RBC-FDP3-Modbus Modbus Interface <ul style="list-style-type: none">• Compatible with all indoor units that have an A/B remote control bus• Control of all main functions• Facilitates the addressing of up to 64 interfaces in an RS485 network to control multi-zone systems• Read out of all error codes possible	595,-
	750,-
TO-RC-BAC-1 BACnet® 1:1 interface <ul style="list-style-type: none">• Compatible with all indoor units that have an A/B remote control bus• Control of all main functions• To control all the functions of an indoor unit, or a group of up to 16 indoor units• Not a stock item - lead time on request	750,-

Central control options

TYPE / DESCRIPTION	PRICE €
 <p>TCB-SC640U-E Central remote control</p> <ul style="list-style-type: none"> • To control up to 64 indoor units. • Control of all device functions • Weekly timer • Uses central addresses 	1.465,-
 <p>BMS-CT2560U-E Smart Manager TOUCH with energy billing</p> <ul style="list-style-type: none"> • Controlled via 7" color touch screen • Controls up to 256 (128) indoor units • Function range same as Smart Manager • Direct connection of up to 8 pulse counters without energy monitoring relay interface* • Uses central addresses • Commissioning with "Setting File Creation" software 	5.730,-
 <p>BMS-IFWH5E Energy monitoring relay interface // OPTIONAL accessories - touch screen controller</p> <ul style="list-style-type: none"> • Required for use of the energy monitoring and billing functions • A maximum of 8 locally provided pulse counters can be connected to each interface • Power meter requirement: max. 10 pulses per kWh 	960,-
 <p>BMS-IFDD03E Digital In/Out relay interface // OPTIONAL accessories - touch screen controller</p> <ul style="list-style-type: none"> • Expansion with 8 inputs and 4 outputs • Not a stock item - lead time on request 	1.035,-
 <p>TCB-TSC640-PY Touch Screen Controller 64</p> <ul style="list-style-type: none"> • Controls up to 64 indoor units • Controlled via 7" color touch screen • Multilingual user interface • Building overview • Connected to U3/U4 via supplied gateway • TCS Net relay interface not required • No setting file required for commissioning • Additional control and energy-saving functions • Freely programmable time switch function 	3.550,-
 <p>BMS-CT5121E Touch screen controller with energy billing</p> <ul style="list-style-type: none"> • Controls up to 512 indoor units • Controlled via 12.1" multi-touch screen, resolution 1024x768 • Additional control and energy-saving functions • Operation using locally provided Windows PC possible; max. 2 users at same time • Requires a TCS Net relay interface (BMS-IFLSV4E) for each TCC Link line • Energy monitoring and billing; requires energy monitoring relay interface (BMS-IFWH5E), locally provided pulse counter, Windows PC with Excel • Not a stock item - lead time on request 	7.545,-
 <p>BMS-IFLSV4E TCS Net relay interface / REQUIRED accessories - touch screen controller</p> <ul style="list-style-type: none"> • Interface between RS485 and TCC Link protocol • Connection of up to 64 indoor units/groups per interface • Up to 12 interfaces can be connected 	1.410,-

TOSHIBA



BMS systems

TYPE / DESCRIPTION	PRICE €
 <p>BMS-IFMB1280U-E Modbus® Interface TU2C-Link</p> <ul style="list-style-type: none"> • Controls up to 128 indoor units • To connect the TU2C-Link network to a locally provided Modbus® building management system • Requires locally provided Modbus master (max. 10 interfaces/master) 	2.745,-
 <p>TO-AC-KNX-16 Module for controlling all the functions of up to 16 indoor units via the KNX® bus.</p> <ul style="list-style-type: none"> • Connection via TCC link • KNX® bus system required • Not a stock item - lead time on request <p>KNX IntesisBox®</p>	4.290,-
 <p>TO-AC-KNX-64 Module for controlling all the functions of up to 64 indoor units via the KNX® bus.</p> <ul style="list-style-type: none"> • Connection via TCC link • KNX® bus system required • Not a stock item - lead time on request <p>KNX IntesisBox®</p>	8.290,-
 <p>TCB-IFLN642TLE LonWorks® Interface</p> <ul style="list-style-type: none"> • Controls up to 64 indoor units • To connect the TCC Link network to a locally provided LonWorks® building control system • Requires a LonWorks® network card to enable control from a PC 	2.245,-
 <p>BMS-IFBN640TLE Small BACnet® Interface</p> <ul style="list-style-type: none"> • Controls up to 64 indoor units • To connect the TCC Link network to a locally provided BACnet® building control system • TCS Net relay interface not required 	2.325,-
 <p>BMS-IFBN1280U-E Big BACnet® Interface TU2C-Link</p> <ul style="list-style-type: none"> • Controls up to 128 indoor units • To connect the TU2C Link network to a locally provided BACnet® building control system • TCS Net relay interface not required 	2.260,-
 <p>TCB-IFCB640TLE Analog interface</p> <ul style="list-style-type: none"> • Controls up to 64 indoor units • For connection to TCC link network • Controls all main functions via 0-10V signals or fixed resistors • Inputs: 8 analog, 2 digital • Outputs: 5 analog, 5 digital 	2.975,-
 <p>Cool Master Central controller for up to 32 indoor units</p> <ul style="list-style-type: none"> • Controls up to 32 indoor units • For connection to TOSHIBA network • Interfaces via RS232, RS485, Ethernet • KNX® option • Small touch screen user interface • Control via smartphone, tablet, or PC possible • Not a stock item - lead time on request 	3.900,-
 <p>Cool Master Pro Central controller for up to 256 indoor units</p> <ul style="list-style-type: none"> • Controls up to 256 indoor units • For connection to TOSHIBA network • Interfaces via RS232, RS485, Ethernet • KNX® option • Small touch screen user interface • Control via smartphone, tablet, or PC possible • Not a stock item - lead time on request 	7.000,-

External control options

TYPE / DESCRIPTION	PRICE €
 TCB-ACREDU2-E Redundancy Box <ul style="list-style-type: none"> • Redundancy switchover unit for two indoor units (or groups) in the event of a fault • Operating hours-dependent switchover for two indoor units • Temperature-dependent activation of second system • Connection to CN61 of indoor units • Plug & Play, temperature sensor included • LAN port, monitoring via web browser possible. 	1.990,-
 TCB-PCM04E Multifunction module (outdoor unit) 4 functions using 2 potential-free contact inputs; 1 function per module <ul style="list-style-type: none"> • Fan control during snowfall • External master On/Off • Night mode (noise reduction) • Operating mode priority heating/cooling 	130,-
 TCB-PCDM4E Current limiting/load shedding module (outdoor unit) 2 functions using 2 potential-free contact inputs <ul style="list-style-type: none"> • External On/Off • Power reduction 100%, 85%, 75%, 60%, 0% (stop) 	170,-
 TCB-PCIN4E Output module (outdoor unit) 4 functions using 3 potential-free contact outputs <ul style="list-style-type: none"> • Operating signal • Error notification • Operating time compressors 1 and 2 • Output power in 8 stages (0 – over 95%) 	190,-
 TCB-PSMT1E Multi Tenant Kit <ul style="list-style-type: none"> • Not a stock item - lead time on request 	380,-
 TCB-KBCN32VEE CN32 - DO: Control of an external fan	6,-
 TCB-KBCN60OPE CN60 - DO: Operating signal cooling, heating, fan, defrost, thermo On	11,-
 TCB-KBCN61HAE CN61 - DI/DO: HA terminal: On/Off, enable/block, operating performance, alarm	11,-
 TCB-KBCN700AE CN70 - DI: external alarm input	6,-
 TCB-KBCN73DEE CN73 - DI: external thermo Off input	6,-
 TCB-KBCN80EXE CN80 - DI: external alarm input	6,-

External control options

TYPE / DESCRIPTION	PRICE €
 Leak Detection & Isolation system 2-stage leak detection system for a room: 1. Leak detection with visual acoustic alarms, compliant with EN378 / 2. As 1., but with additional isolation of the affected indoor unit	
TCB-LD1 Control unit	445,-
TCB-LDS1 Leak detection sensor, plastic <ul style="list-style-type: none">• Connection via CN80 and CN61 on the indoor unit pcb• Indoor units without CN80 require the option pcb TCB-PCUC2E	980,-
 TCB-LDS2 Leak detection sensor, steel <ul style="list-style-type: none">• Connection via CN80 and CN61 on the indoor unit pcb• Indoor units without CN80 require the option pcb TCB-PCUC2E	1.015,-
 TCB-LDSBB1 Casing, plastic for drywall	15,-
TCB-LDSBB2 Casing, metal for wall	15,-
TCB-AW17861 Isolation valve 12.7 mm	645,-
TCB-AW17862 Isolation valve 15.9 mm	645,-
 Leak Detection & Pump Back System Leak detection system with refrigerant pump back function for all VRF systems of the e-series. Uses information from external room and internal system sensors. Compliant with EN378. 2 or 3 isolation valves to shut off the main lines.	
TCB-LD2 Control unit	3.305,-
TCB-PCM04E. DI additional PCB	130,-
TCB-PCIN4E. DO additional PCB	190,-
 TCB-LDS1 Leak detection sensor, plastic <ul style="list-style-type: none">• Connection via CN80 and CN61 on the indoor unit pcb• Indoor units without CN80 require the option pcb TCB-PCUC2E	980,-
 TCB-LDS2 Leak detection sensor, steel <ul style="list-style-type: none">• Connection via CN80 and CN61 on the indoor unit pcb• Indoor units without CN80 require the option pcb TCB-PCUC2E	1.015,-
TCB-LDSBB1 Casing, plastic for drywall	15,-
TCB-LDSBB2 Casing, metal for wall	15,-
TCB-AW17861 Isolation valve 12.7 mm	645,-
TCB-AW17862 Isolation valve 15.9 mm	645,-
TCB-AW17863 Isolation valve 19.0 mm	695,-
TCB-AW17864 Isolation valve 22.2 mm	760,-
TCB-AW17865 Isolation valve 28.6 mm	1.050,-
TCB-AW17866 Isolation valve 34.9 mm	1.105,-
TCB-AW17867 Isolation valve 41.3 mm	1.150,-

TOSHIBA service program

- Computer software for service engineers
- Displays and records unit data: unit ON / OFF, cooling or heating mode, pulse modulation valve degree of opening, temperature values, pressure values, compressor ON / OFF, error codes
- Consisting of: adapter box, with cable to the unit, cable to the computer, and CD-ROM

TYPE	ADDITIONAL INFORMATION	PRICE IN €
TCB-DK01SS-E	Dyna Doctor Hardware für RAS, ESTIA, RAV und VRF	2.430,-
TCB-SS1UU-E	Service Link Adapter SMMSu	2.765,-

Software for the Dyna Doc can be downloaded free of charge:
www.toshiba-aircondition.com

- Partner Login
- Downloads
- Software
- Dyna Doctor

Legend to the units' features



R32 refrigerant



WiFi ready,
module not included!



R410A refrigerant



Single-split configuration

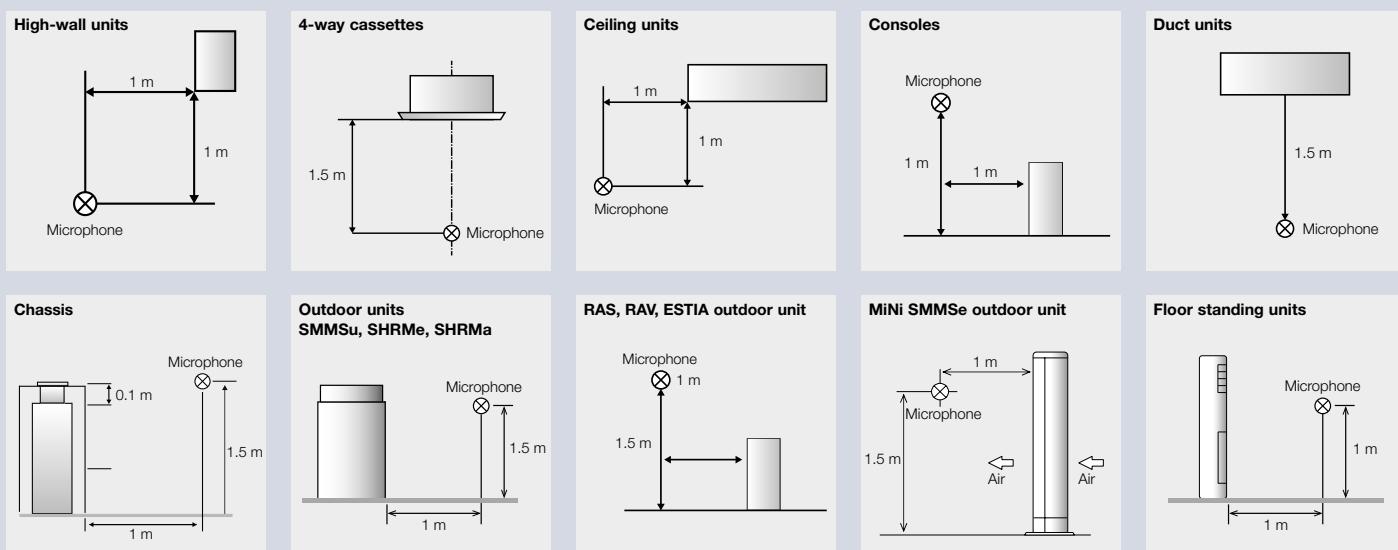


R32 or R410A refrigerant (bi-ref)



Multi-split configuration

Test set-up for determining the sound pressure level



Measuring conditions for TOSHIBA air conditioners & heat pumps

Cooling

Outdoor temperature: +35°C dry bulb temperature
Indoor temperature: +27°C dry bulb temperature / +19°C wet bulb temperature
Humidity: 50 – 55% r.H. (relative humidity)

Heating

Outdoor temperature: +7°C dry bulb temperature / +6°C wet bulb temperature
Indoor temperature: +20°C dry bulb temperature

Refrigerant piping

Performance data for RAV and ESTIA for 7.5 m cable length and 0 m height difference between indoor and outdoor unit. For VRF standard indoor units for 5.0 m main pipe, 2.5 m branch pipe, 0 m height difference

Technical data, performance data and operating limits

The minimum, nominal, and maximum values may be specified with intermediate stages if available. If only one value is specified without special identification, the value applies to nominal conditions.

Sound pressure level

For split systems measured according to „Messanordnung zur Ermittlung des Schalldruckpegels“ auf Seite 217.

Values are determined in an acoustically shielded room as defined in JIS B8616; when installed, these values may be higher since they can be affected by external factors.

Energy efficiency and energy efficiency values

All energy efficiency values & data are documented in detail at www.toshiba-aircondition.com.

Here you will also find a link to the Ecodesign website

<http://ecodesign.toshiba-airconditioning.eu>. This contains all the legally required information & data concerning Lot10, Lot21, Lot1, Lot2, Lot11 and Lot6 products.

In systems with different combination options, the energy efficiency values will depend on the combination. Efficiency values for RAS multi outdoor units are measured for a specified combination that is specified in the associated service manual.

Fusing and power supply line

Catalog values are recommended values. The dimensioning is the responsibility of the electrical installation company carrying out the work and must be done in accordance with the regional regulations.

Seasonal performance factor

The SPF values specified for ESTIA products correspond to the preliminary calculation described in VDI 4650, at a standard outdoor temperature of -12°C, heating limit temperature of +15°C, supply water temperature of +30°C, $\Delta T = 10\text{ K}$

VRF outdoor units

Operating range, outdoor temperature when set up in a position protected against the wind and with minimum system load of 50% height difference (max.): indoor units higher / lower

Hot water modules

Heating capacities under nominal conditions;

MT Mid Temperature: Temperature at water inlet +30°C, water outlet +35°C.

HT High Temperature: Temperature at water inlet +60°C, water outlet +65°C.

Performance data for ESTIA products

Split

Heating capacity and power consumption at nominal compressor operating speed; power consumption without water pump. Measured in accordance with EN 14511. 0 m height difference between outdoor unit and hydrobox / All-in-one.

Glossary

Heat pump	A heat pump is a system that generates useful heat from the ambient temperature (roughly 75%) and operating energy (roughly 25%).
Inverter technology	Inverter technology means the load-adaptive speed control of compressor(s) and optionally the fan motor(s) of an outdoor unit.
Energy efficiency	The energy efficiency is the direct comparison between the electrical energy used and the heating capacity/cooling capacity obtained.
Seasonal energy efficiency	See the definition of "Energy efficiency" viewed over one year.
Full load	Full load is an operating status at which a machine can yield the greatest possible power output.
Part load	Part load is the operating status that is achieved by speed adaption on the basis of the capacity demand required for the room.
Compressor	A compressor is a component that is needed to compress the refrigerant.
PWM, PAM	The voltage converted by the "inverter" can drive the compressor in two ways. Either pulse width modulation (high efficiency / PWM) is used for very efficient operation in the part load range, or pulse height modulation (high power / PAM) is applied to ensure that the set temperature is quickly reached.
Sound power level	The sound power level is an acoustic variable that arises at the actual sound source. It is expressed in dB(A).
Sound pressure	The sound pressure is the result of the sound power level in relation to the distance from the sound source. It is measured in dB(A).
Nominal capacity	The unit capacity at a specified operating point.
Maximum capacity	The maximum unit capacity at a specified operating point.
Fusing	This interrupts an electrical current circuit when the electrical current exceeds a defined current intensity over a specified time, or a short-circuit or a ground fault occurs at the electrical consumer.
Refrigerant	The refrigerant is a technical gas that acts as a medium for transporting cold and thermal energy within the system. Common refrigerants are currently R410A and R32. R32 has a lower global warming potential (GWP*), greater energy efficiency, and requires smaller charges.
GWP	Stands for Global Warming Potential and designates the climate warming potential of the refrigerant in relation to carbon dioxide (CO ₂). The GWP of carbon dioxide was defined as 1 as the basis for the calculation. For the R410A refrigerant, the GWP is 2,088, while for R32 it is just 675.
CO₂ equivalent	It has been mandatory to show the CO ₂ equivalent on all outdoor units since 1 January 2017. This is the mathematical product of the GWP and the total refrigerant charge of a system. The CO ₂ equivalent is expressed in tons.

HIGHER
quality in
LIFE



UNIVERSAL SMART X CHILLER & HEAT PUMP

➤ **The new R32 dimension in cooling & heating**

THE 8 SMART FEATURES

Even at first glance, the new UNIVERSAL SMART X from TOSHIBA really looks the part. With its compact, modular form and eye-catching X design, it fits into any installation location. To save space, up to 128 modules may be arranged in series to provide a total cooling capacity of up to 25,600 kW. The modular structure and perfect part load characteristics mean that the system can achieve this enormous capacity in a theoretically infinite number of increments from 5% of an individual unit up to the maximum capacity.

The 8 smart features show how the intelligent system design leads to considerable savings in terms of space required and energy resources, while offering perfect reliability.



Twin-rotary compressor: Infinitely variable from 5 – 100%

Energy efficient control in the part load range up to 5% thanks to the proven TOSHIBA twin rotary compressor



150 kW – 25.6 MW capacity range with modular scalability

Heating and cooling output of up to 25,600 kW by combining modules.



Operational reliability due to modular structure

The 4-in-1-module concept translates to maximum reliability and redundancy



Space-saving X design

The distinct X design optimizes air flow and takes up less installation space than conventional systems



High efficiency factor

Lower investment and operating costs due to reduction of the connected electrical load as standard



Broad operating range

The USX reliably delivers heating and cooling all year round – even under extreme usage conditions



Prompt availability all year-round from Vienna warehouse

Standardized unit configuration ensures year-round availability from the warehouse in Vienna



WiFi connection

A simple app is available for monitoring mobile systems

Our stock models

200 KW COOLING ONLY – BRINE, 3.7 KW PUMP

Type RUAGP561C3R8E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS	
RUAGP561C3R8E	TOSHIBA USX chiller	200 kW / 70 HP	Brine model	Cooling only	Basic EER Integrated pump 3.7 kW
Controller (optional, one required)					
RBP-MC003SSRE	Module controller				without Modbus
RBP-MC003SSRDE	Module controller				with Modbus

Most suitable for

- Industry
- Process cooling
- Air handling units
- Hospitals

200 KW COOLING ONLY – WATER / BRINE, 2.2 KW PUMP

Type RUAGP561C28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS	
RUAGP561C28E	TOSHIBA USX chiller	200 kW / 70 HP	Water / brine model	Cooling only	Basic EER Integrated pump 2.2 kW
Controller (optional, one required)					
RBP-MC003SSE	Module controller				without Modbus
RBP-MC003SSDE	Module controller				with Modbus

Most suitable for

- Air handling units
- Office buildings
- Hotels
- Hospitals
- Technical servers
- Technical cooling
- Shopping centers & malls

200 KW HEAT PUMP, BASIC HEATING – WATER / BRINE, 2.2 KW PUMP

Type RUAGP561H28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS	
RUAGP561H28E	TOSHIBA USX chiller	200 kW / 70 HP	Water / brine model	Heating & cooling	Basic EER Basic heating Integrated pump 2.2 kW
Controller (optional, one required)					
RBP-MC003SSE	Module controller				without Modbus
RBP-MC003SSDE	Module controller				with Modbus

Most suitable for

- Air handling units
- Offices
- Hotels
- Hospitals
- Shopping centers & malls

180 KW HEAT PUMP, HiHEATING – WATER / BRINE, 2.2 KW PUMP

Type RUAGP511F28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS	
RUAGP511F28E	TOSHIBA USX chiller	180 kW / 60 HP	Water / brine model	Heating & cooling	Basic EER HiHeating Integrated pump 2.2 kW
Controller (optional, one required)					
RBP-MC003SSFE	Module controller				without Modbus
RBP-MC003SSFDE	Module controller				with Modbus

Most suitable for

- Air handling units
- Offices
- Hotels
- Hospitals
- Shopping centers & malls

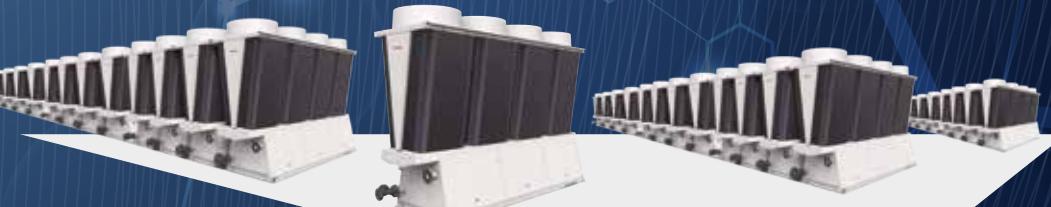


ACCESSORIES REQUIRED

ITEM NUMBER	DESIGNATION	ADD-ONS
RBP-MC003SSE	TOSHIBA USX chiller, module controller (MC)	For basic heating, water, water / brine model
RBP-MC003SSDE	TOSHIBA USX chiller, module controller (MC)	For basic heating, water, water / brine model, including Modbus interface
RBP-MC003SSRE	TOSHIBA USX chiller, module controller (MC)	For basic heating, brine model
RBP-MC003SSRDE	TOSHIBA USX chiller, module controller (MC)	For basic heating, brine model, including Modbus interface
RBP-MC003SSFE	TOSHIBA USX chiller, module controller (MC)	For HiHeating, water, water / brine model
RBP-MC003SSFDE	TOSHIBA USX chiller, module controller (MC)	For HiHeating, water, water / brine model, including Modbus interface

OPTIONS

ITEM NUMBER	DESIGNATION	ADD-ONS
RBP-GC004TP-E	Group controller (GC)	For combinations of up to 8 groups of 16 combined modules
RBP-RC001-E	Group controller COMPACT (GCC)	Compact central controller for module/group combinations
RBP-BT923TYS-E	Connection fitting kit	For connecting 2 modules to the upper frame
RBP-RTHS-E	External sensor	Additional LWT temperature sensor
RBP-SDCD-E	SD card for Flash Monitor	WiFi card for using the Flash Monitor app on an Android tablet
RBP-FL030E-E	Flange kit for hood and net installation	For installing weatherproofing equipment
RBP-BG901S-E	Fin guard kit	Fin guard for the 4 air heat exchangers in a module
RBP-CPB		Basic corrosion protection
RBP-CPH		Heavy corrosion protection
RBP-ACOMM		Support for commissioning the system
RBP-LDT	Large ΔT specification	Increased ΔT between EWT/LWT: $\Delta T = 10$ to 16 K
RBP-HMS	Heat machine specification	Heating only model
RBP-SSWSCV	Stainless steel water strainer & check valve	Water strainer and check valve made from stainless steel
RBP-SSWP	Special pump specification	Water pump made from stainless steel
RBP-FSU	Fast start-up specification	Allows the system to recover 100% of the thermal output capacity in 50% of the standard time



One module controller can control up to 16 individual modules.



Group controller COMPACT

The group controller can control up to 8 groups, each consisting of up to 16 individual modules.

Please contact your TOSHIBA specialist partner for further information.





LIST OF IMAGES

We would like to take this opportunity to express our gratitude for the support and reference images provided. They give potential customers a realistic impression of our products and help us to strengthen the TOSHIBA brand.

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TOSHIBA



High quality and efficiency in a space-saving format. The ESTIA air-to-water heat pump is extremely effective and is ideal for heating, hot water preparation, and cooling in your home. Heating with heat from the air – environmentally friendly, cost-effective, and efficient.

ESTIA

The warmth
of the future.



Multi-room solutions comprise air conditioning systems for complex installations in large structures such as office buildings, shopping malls, or hotels. Huge system flexibility with piping lengths of 1200 m and up to 128 indoor units leave no wishes unmet. The system also allows independent cooling and heating at the same time in different rooms or areas of buildings.

BUSINESS

Plan for excellence.
Cool excellently.



Expertise in every sector –
air conditioning systems and heat pumps for cooling and heating



HOME

TOSHIBA's innovative air conditioning systems were specially developed to ensure your wellbeing in your home, and its progressive technology offers comfort 365 days a year. Quiet operation, air filtering, and purification are just some of the benefits for greater comfort in your home. An air conditioning system is also the perfect heating solution, especially at season changes.



LIGHT BUSINESS

The performance you need. The comfort you expect.

With its versatility, the RAV single-room solutions are perfect for 24-hour continuous operation to maintain a precisely defined room climate – from small server rooms to large stores. Up to four indoor units can be combined for optimum air distribution and set to heat or cool the room as desired, so they can be operated all year round.



CHILLER

Cooling & heating in
the big leagues.

TOSHIBA's USX chillers represent a new dimension in refrigeration and heat generation. If the capacity required exceeds the technical and financial limits of direct evaporation systems, then water-based systems are used.

TOSHIBA

We advise you personally

YOUR CERTIFIED TOSHIBA AIR CONDITIONING PARTNER

TOSHIBA air conditioning partner:



With a TOSHIBA air conditioning system and heat pump you not only enjoy top product quality, but also professional advice, planning, installation, and maintenance services from highly qualified air conditioning system experts. Rely on a perfect climate from a specialist!

From small to large

TOSHIBA air conditioning systems and heat pumps cover the entire spectrum with products for both domestic situations and for industrial and commercial applications. Contact your TOSHIBA air conditioning partner or visit our website for detailed information.



**For more information:
Visit our website!**

You will find further information about TOSHIBA air conditioning systems and heat pumps as well as our sales partners on our website: www.toshiba-aircondition.com



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