

MVAS

Monosplit high head duct

Cooling capacity 22,4 ÷ 28,0 kW
Heating capacity 24,0 ÷ 30,0 kW



- Suitable for long-distance channels.
- Effective static pressure that can reach 150 Pa.
- Special coil with fin golden coating.



DESCRIPTION

The monosplit air conditioners of the MVAS range are combined with MVA_DH monosplit (high head duct) indoor units for duct type horizontal installation.

The outdoor unit features a compressor with inverter technology, an electronic valve and electric heater to ensure proper winter operation and prevent ice formation on the coil.

FEATURES



Indoor unit

High head duct indoor unit, designed for indoor duct type horizontal installation.

- Every indoor unit comes with a remote control and a remote control holder.
- **WRC** wired panel standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- 5-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- **Turbo** function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- **X-fan** prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- **Anti-freeze** function that allows you to keep an inside minimum temperature of 8 °C in winter.
- **iFeel** function for activating the ambient temperature probe inside the remote control, for improved comfort.

Outdoor unit

Monosplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.



Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



General features

- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microprocessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

ACCESSORIES

MVAGW: This accessory allows you to manage up to 16 MV systems (with a maximum of 255 total indoor units), making available a serial in ModBus

RTU protocol on RS485, ModBus TCP or BACnet / IP for supervision with an external BMS.

USBDC / USBDC1: The kit includes a converter (from CanBus to ModBus) and the VRF debugger software. IT is designed to meet the requirements of after sales services and qualified technicians who need to carry out control and debugging procedures on the MV_ ranges.

WRC: Wired panel with liquid crystal display and soft-touch buttons.

WRC1: Simplified wired panel with liquid crystal display and soft-touch buttons with built-in external contact. This panel is particularly suitable for hotel applications.

For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.



PERFORMANCE SPECIFICATIONS

Indoor unit	MVA2240DH	MVA2800DH	
Outdoor unit	MVAS2242T	MVAS2803T	
Nominal cooling performances			
Cooling capacity (1)	kW	22,40	28,00
Cooling input power (1)	kW	6,12	13,02
Cooling input current	A	10,9	-
EER (2)	W/W	3,66	2,15
Nominal heating performances			
Heating capacity (3)	kW	24,00	28,00
Heating input power (3)	kW	4,90	8,00
Heating input current	A	8,8	-
COP (2)	W/W	4,90	3,50

(1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

(2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

(3) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

INDOOR UNIT

		MVA2240DH	MVA2800DH
Indoor unit			
Type of fan	Type	Inverter centrifugal	Inverter centrifugal
Air flow rate			
Maximum	m ³ /h	4000	4400
High static pressure			
Nominal	Pa	150	150
Sound power (1)			
Maximum	dB(A)	64,0	65,0
Average	dB(A)	62,0	62,0
Minimum	dB(A)	59,0	60,0
Sound pressure (2)			
Maximum	dB(A)	54,0	55,0
Average	dB(A)	52,0	52,0
Minimum	dB(A)	49,0	50,0
Indoor unit			
Condensate discharge diameter	mm	30,0	30,0

(1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

(2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

OUTDOOR UNIT

		MVAS 2242T	MVAS 2803T
Outdoor unit			
Type of fan	Type	Inverter axial	Inverter axial
Sound power (1)			
Maximum	dB(A)	74,0	-
Sound data calculated in cooling mode (2)			
Maximum sound pressure level	dB(A)	58,0	62,0
Maximum sound power level	dB(A)	78,0	80,0
Sound data calculated in heating mode (2)			
Maximum sound pressure level	dB(A)	58,0	64,0
Maximum sound power level	dB(A)	79,0	82,0
Compressor			
Type	type	Rotary	Rotary
Refrigerant	type	R410A	R410A
Potential global heating	GWP	2088kgCO ₂ eq	2088kgCO ₂ eq

(1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

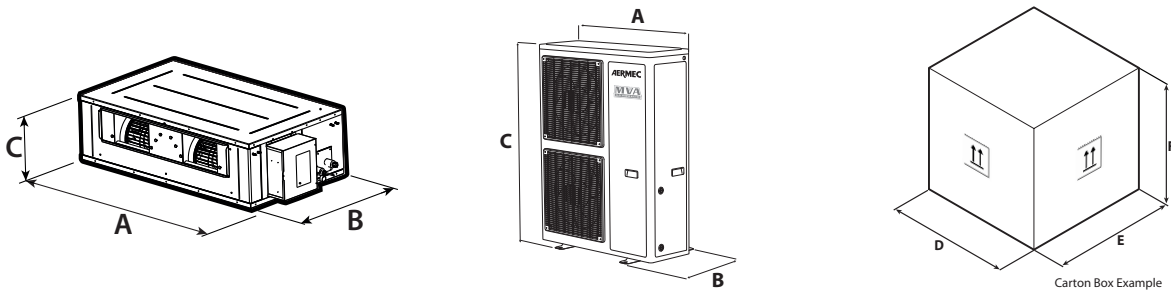
(2) Sound Pressure and Sound Power measured in Semi-Anechoic Chamber at 1 m from the source, according to EN 12102-1:2022

GENERAL DATA

		MVA2240DH	MVA2800DH
Indoor unit		MVA2240DH	MVA2800DH
Outdoor unit		MVAS2242T	MVAS2803T
Electric data			
Rated power input (1)	kW	9,60	-
Refrigeration pipework			
Type refrigerant connections	Type	To be soldered	To be soldered
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	19,05 (3/4")	22,2 (7/8")
Power supply			
Power supply		380-415V ~ 3N 50/60Hz	380-415V ~ 3N 50/60Hz

(1) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

DIMENSIONS AND WEIGHTS



		MVA2240DH	MVA2800DH
Indoor unit			
A	mm	1483	1686
B	mm	791	870
C	mm	385	450
D	mm	1758	1788
E	mm	883	988
F	mm	470	580
Net weight	kg	82,0	105,0
Weight for transport	kg	104,0	140,0
Outdoor unit			
A	mm	940	940
B	mm	320	460
C	mm	1430	1615
D	mm	1038	1038
E	mm	438	578
F	mm	1580	1765
Net weight	kg	133,0	163,0
Weight for transport	kg	144,0	175,0

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Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com