MVA

Direct expansion variable refrigerant flow system VRF

Cooling capacity 12,1 kW ÷ 246,0 kW
Heating capacity 14,0 kW ÷ 276,0 kW

- **Units prepared for installations with two or three pipes.**
- **The correct balance between cost, efficiency and space.**
- **Wide choice of indoor units available.**
- **Up to 80 connectible indoor units.**

DESCRIPTION

The VRF air conditioners from the MVA range are combined with indoor units:
— MVA_WL - **Wall.**
— MVA_D - **Horizontal duct, low head.**
— MVA_DH - **Horizontal duct, high head.**
— MVA_DV - **Vertical duct, high head.**
— MVA_CS, MVA_C and MVA_CB - **4-way cassette .**
— MVA_C1 - **1-way cassette .**
— MVA_F - **Floor ceiling.**
— MVA_FS - **Console.**
— MVA_V - **Column.**

TYPE OF INDOOR UNIT

MVA_WL

Wall indoor unit designed to be installed on indoor walls.
— Modern design to blend with all furnishing styles.
— Distributed air jet: air outlet fins with horizontal and vertical adjustment facility.
— Anti-freeze function that allows a minimum temperature of 8 °C to be maintained in the environment during the winter period.

MVA_D / MVA_DH / MVA_DV

Duct indoor unit designed for indoor duct type installation.
MVA_D - Horizontal duct, low head.
— Wired panel standard supply.
— Low noise levels.
— Easy installation in small assembly spaces, thanks to the limited dimensions.
MVA_DH - Horizontal duct, high head.
— Wired panel standard supply.
— Suitable for long-distance channels.
— Effective static pressure that can reach 150 Pa.
MVA_DV - Vertical duct, high head.
— Wired panel standard supply.
— No obstruction and completely invisible.
— Unit without cover, designed for installation in wall recesses.

MVA_CS / MVA_C / MVA_CB

4-way cassette indoor unit designed to be installed on false ceilings indoors.
MVA_CS - Cassette 600x600.
Mandatory accessory GL40S.
MVA_C - Cassette 840x840.
Mandatory accessory GL40.
MVA_CB - Cassette 910x910.
Mandatory accessory GL40B.
— Wired panel standard supply.
— Condensate discharge pump as standard.
— Guarantees even air distribution, for optimum comfort.

MVA_C1

1-way cassette indoor unit designed to be installed on false ceilings indoors.
MVA_C1 - Cassette 987x385.
Mandatory accessory - GLC1.
— Wired panel standard supply.
— Condensate discharge pump as standard.
— Compact size and minimum dimensions.

MVA_F

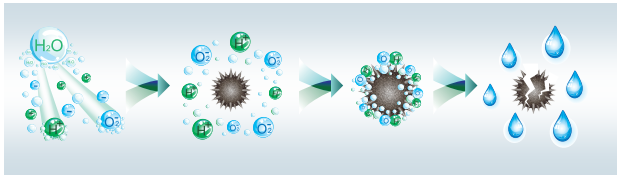
Floor ceiling indoor unit to be installed on walls or ceiling.
— Low noise levels.
— Anti-freeze function.
— Flexible installation for any environment.

MVA_FS

Console indoor unit designed to be installed on the floor.
— Anti-freeze function.
— Air Purifiers (Cold Plasma).
— Two delivery vents for optimal control of the air flow.

Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.



MVA_V

Column indoor unit designed to be installed in large sized rooms.

— Easy installation and maintenance.
— Speed in reaching the defined set point in the shortest time possible.
— Ideal for installations in the service sector: hotels, restaurants, offices.

TRS1001DX

Heat recovery unit 1000 mc/h with counter-current flows and direct expansion coil. Designed and built to recover both sensible and latent heat, and to provide heating or cooling capacity indoors. To complete the system, the use of the AHUKIT accessories and the WRC1 wired panel is compulsory.

General features

— Operating mode: cooling, heating, dehumidification, automatic and fan only.
— Total capacity connected to the outdoor units between 50% and 135% of the rated capacity of the selected configuration.
— Indoor unit fitted standard with an electronic expansion valve.
— **WRC** wired panel standard supply with each indoor unit.
— **WLRC** remote control and holder standard supply with each indoor unit.
— Automatic unit adjustment function.
— Particularly quiet operation.
— Microproccessor control.
— Auto-restart function.
— Self-diagnosis function.
— Easy installation and maintenance.

TYPE OF OUTDOOR UNIT

MVA_S

Standard multisplit VRF air conditioners.
Reversible air/air heat pump with DC inverter technology.

— From 1 to 16 connectible indoor units.
— Total maximum length of the refrigerant lines up to 300 m.
— The sizes MVAS1201S - MVAS1401S - MVAS1601S and MVAS1201T - MVAS1401T - MVAS1601T, are fitted with a base electric resistor to avoid possible formation of ice and encourage the disposal of the condensate during the heating operation.
— Compressor and fan with DC inverter technology.
— Fitted with an electronic expansion valve.

MVA_M

Module multisplit VRF ambient air conditioner for 2-pipe systems.
Reversible air/air heat pump with DC inverter technology.

— From 1 to 80 connectible indoor units.
— Total maximum length of the refrigerant lines up to 1000 m.
— Modular system with base modules that can be combined together, up to a maximum of 4, for a total of 33 recommended combinations.
— Compressor and fan with DC inverter technology.
— Fitted with an electronic expansion valve.
— Optimised management of the compressor operating time with partial loads.
— Emergency operation, in the event of problems with the compressors or fans, allows operation of the system with a reduced number of compressors and/or fans for a limited time.
— Channelled air delivery from 0 Pa (default) to 82 Pa of effective static head set via dip switches.
— **For cooling line connections, refer to refnet joints in the accessories section.**

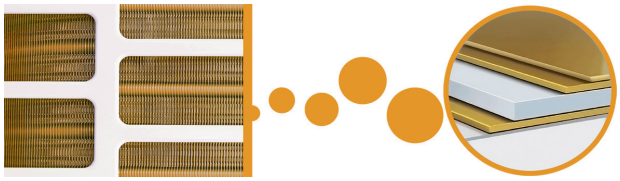
MVA_MHR

Module multisplit VRF ambient air conditioner for 3-pipe systems.
Reversible air/air heat pump with DC inverter technology.

— From 1 to 80 connectible indoor units.
— Total maximum length of the refrigerant lines up to 1000 m.
— Modular system with base modules that can be combined together, up to a maximum of 4, for a total of 24 recommended combinations.
— Compressor and fan with DC inverter technology.
— Fitted with an electronic expansion valve.
— A system that permits managing the heating and cooling modes in an independent and simultaneous manner.
— Possibility of managing hot or cold modes independently and simultaneously. MVA_MHR 3-pipe outdoor units must be interfaced with two dual pipe MVA series Indoor units using the exchange module (MEB) available with one, two, four or eight branches.
— **MEB: mandatory accessory for 3-pipe systems.**

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.
— Refrigerant connections with braze welded Y and F joints (mandatory accessories).
— Compressor and fan with DC inverter technology.
— Particularly quiet operation.
— Microproccessor control.
— Auto-restart function.
— Self-diagnosis function.
— Easy installation and maintenance.
— Serial communication in CanBus protocol.

ACCESSORIES

CC2: Centralised control (7" touch screen display), which can be used to manage up to 255 indoor units distributed across a maximum of 16 Systems. The centralised control has an integrated external contact.
MVASZC: Simplified centralised control (4,3" touch screen display), which can be used to manage up to 32 Indoor Units distributed across a maximum of 16 Systems.
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.
AHUKIT: Kit comprised of a box that contains the thermal expansion valve(s) complete with wiring and their control module, with pre-wired probes, a wall-mounted control panel with external contact. The kit is intended to be combined with the direct expansion cooling and/or heating coil (using R410A) of an air treatment unit. The latter is not supplied as an MVA component, but is functionally connected to an MVA system and is suitably sized. AHUKIT, and the and the air treatment unit connected to it, treat the recirculated and/or fresh air that falls within the operating limits, regulating the recirculation/expulsion air temperature.
BACNETGW: This accessory allows you to manage up to 16 MVA systems (with a maximum of 255 indoor units), with a BacNet serial for supervision with an external BMS.
MINIMODBUS10: Allows information to be exchanged between the units of the MVA range with BMS systems via a standard Modbus (RTU).
MODBUSGW: This accessory allows you to manage up to 16 MVA systems (with a maximum of 255 indoor units), with a BacNet serial for supervision with an external BMS.
MODBUSGW10: This accessory allows you to manage up to 16 MVA systems (with a maximum of 255 indoor units), with a BacNet serial for supervision with an external BMS.
USBDC: 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 MVA ranges.

Accessories compulsory

Air delivery and recovery grille for indoor **Cassette** type units.

Grille model	Indoor units model			4 WAY	1 WAY	Dimensions	Weight
	MVA_CS	MVA_C	MVA_CB			LxHxW (mm)	Kg
GL40S	•	-	-	•	-	670x670x50	3,5
GL40	-	•	-	•	-	950x950x60	7,0
GL40B	-	-	•	•	-	1040x1040x65	8,0
GLC1	-	-	-	-	•	1200x460x55	4,2

Joints refnet

Connection between modular outdoor units.
The modules are easy to install and link together from the cooling point of view, thanks to the connections with dedicated refnet joints. Modularity is the fundamental characteristic of these systems as it also allows high-capacity systems to be created in a quick, simple way.

Y-joints for cooling connection between 2 Outdoor Units in Modular Systems. **A modular system made up of n. base modules requires n-1 Y-joints.**
Mandatory accessory for modular systems.

MVAM 2-pipe system	MVAMHR 3-pipe system	MVAM 2-pipe system	MVAMHR 3-pipe system
Outdoor unit	Outdoor unit	Indoor unit	Indoor unit - MEB
RNYM01	RNYMHR10	RNY11	RNY11
	RNYMHR20		
AHUKIT	**Outdoor units - MEB**	RNY12	RNY12
RNYAHU	RNYHR10	RNY21	
	RNYHR20	RNY31	
	RNYHR30	RNY41	
	RNYHR40	RNF14	
	RNYHR50	RNF18	
	RNYHR60	RNF18B	
	RNYHR70		

MVA_M 2-pipe system

RNYM01
Accessory comprising 2 Y-joints, one for the liquid line and one for the discharge line.

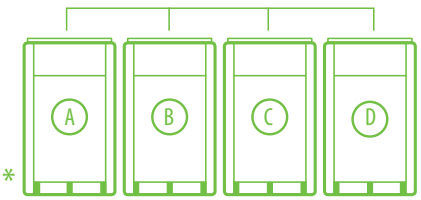
MVA_HR 3-pipe system

RNYMHR
Accessory comprising 3 Y-joints - one for the liquid line and two for the gas lines (one high pressure and the other low pressure).

Code	Type	Connection between modular outdoor units Sum of powers (kW)	
		≥	≤
RNYMHR10	Y	50,40	96,00
RNYMHR20	Y	96,00	-

REFNET
No. of kits needed:

Total Modules (A+B+C+D)* No.	Sum of powers (kW)	REFNET	No. of kits needed
1	50,40 <	-	-
2	≥ 50,40 - 96,00 ≤	RNYMHR10	1
3	≥ 50,40 - 96,00 ≤	RNYMHR10	2
3	> 96,00	RNYMHR20	2
4	> 96,00	RNYMHR20	3



Connection between modular outdoor units and MEB - Exchange module

RNYHR

Accessory for connecting outdoor units with the MEB exchange module. Comprises three Y-joints one for the liquid line and two for the gas lines (one high pressure and the other low pressure).

Code	Type	Connection between modular outdoor units Sum of powers (kW)	
		≥	≤
RNYHR10	Y	-	5,00
RNYHR20	Y	5,00	22,40
RNYHR30	Y	22,40	28,00
RNYHR40	Y	28,00	68,00
RNYHR50	Y	68,00	96,00
RNYHR60	Y	96,00	135,00
RNYHR70	Y	135,00	-

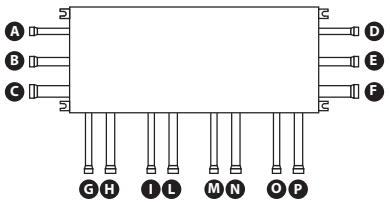
MEB

Exchange module with one, two, four or eight branches (each single branch can manage heating or cooling mode independently of the others, but simultaneously) for interfacing MVA_M and MVAMHR 3-pipe outdoor units with the MVA 2-pipe indoor units.

Code	Branches	Maximum manageable cooling capacity (per single branch)	Total power managed by the MEB	Connectible indoor units
	no.	(kW)	(kW)	Max. no.
MEB11	1	14,20	-	6
MEB21	2	14,20	-	6
MEB41	4	14,20	45,00 ≤	6
MEB81	8	14,20	68,00 ≤	6

In order to connect indoor units with a capacity higher than 14kW, two branches must be used that are joined into one using suitable dip-switch settings on the distribution box.

MEB exchange module



Refrigerant connection	Description
A	Liquid (left side)
B	Gas high pressure (left side)
C	Gas low pressure (left side)
D	Liquid (right side)
E	Gas high pressure (right side)
F	Gas low pressure (right side)
G	Liquid (branch 1)
H	Gas (branch 1)
I	Liquid (branch 2)
L	Gas (branch 2)
M	Liquid (branch 3)
N	Gas (branch 3)
O	Liquid (branch 4)
P	Gas (branch 4)

Connection between indoor units

RNY

Accessory comprising 2 Y-joints, one for the liquid line and one for the discharge line.

RNF

Accessory made up of two F-joints, one for the liquid line and one for the discharge line.

Code	System type		Type of joint	Total power downline (kW)		Maximum 1-way connectible power	Connectible indoor units
	2-pipe	3-pipe		>	≤	(kW)	No.
RNY11	•	•	Y	-	20,00	-	-
RNY12	•	•	Y	20,00	30,00	-	-
RNY21	•		Y	30,00	70,00	-	-
RNY31	•		Y	70,00	135,00	-	-
RNY41	•		Y	135,00	-	-	-
RNF14	•		F	-	40,00	16,00	from 2 to 4
RNF18	•		F	-	68,00	16,00	from 4 to 8
RNF18B	•		F	68,00	-	16,00	from 4 to 8

ADVANTAGES FOR VRF SYSTEMS: MVA

Compact design

Thanks to the reduced dimensions and compact design of these units, they are easy to move at the job site. All the models can in fact be transported easily right up to the roof, even using a lift.

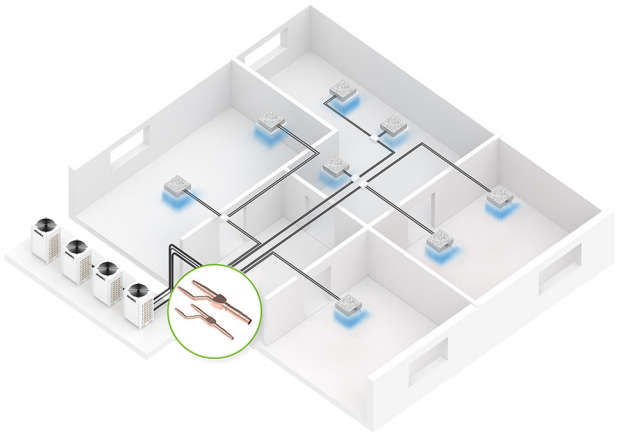
VRF systems - 2-pipe heat pump

Customise your VRF system.

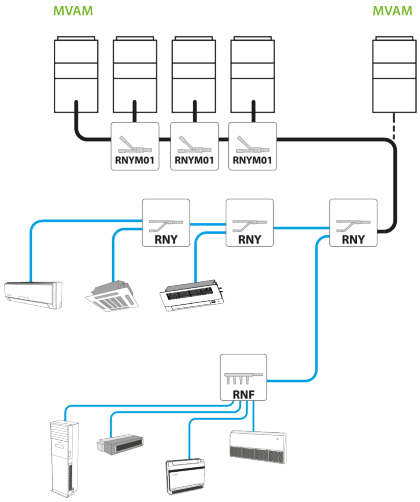
To guarantee greater seasonal efficiency and maximum comfort with the variable refrigerant function.

Continuous comfort.

Continuous heating or cooling of the rooms is what makes the VRF system a valid alternative to hydronic systems.



Example of a 2-pipe system



When dimensioning the cooling lines, exclusively refer to the technical manual.

A modular system made up of n base modules requires n-1 Y-joints.

MVAS - MVAM

— 2-pipe system.
— Cooling or heating mode. (The image shows an example of a system in cooling mode).
— Maximum total length of cooling lines MVAS:
— **MVAS**: 300 m
— **MVAM**: 1000 m

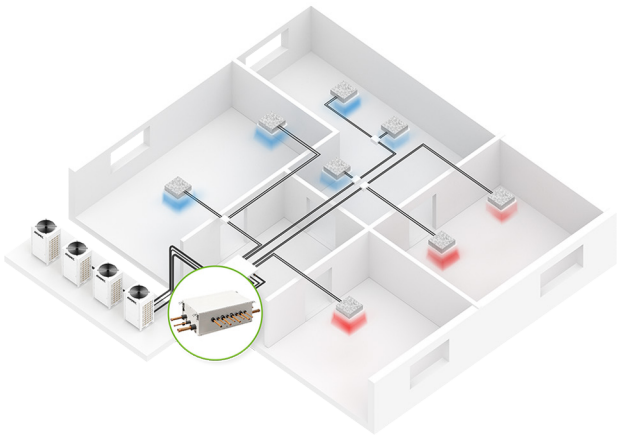
VRF systems - 3-pipe heat pump

The MVAMHR VRF heat recovery system heats and cools at the same time with one single circuit.

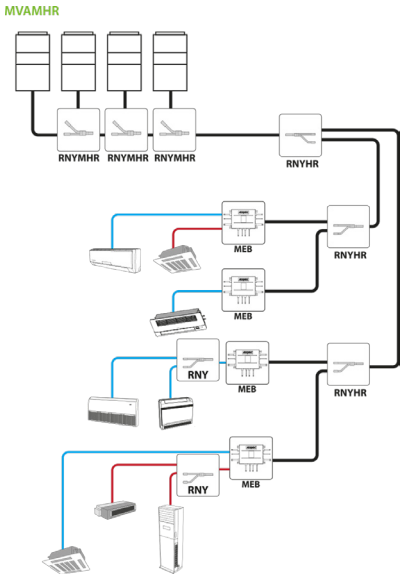
MVAMHR recovers the heat produced during cooling and uses it to heat certain rooms cost-free, maximising energy efficiency and reducing energy costs.

Continuous comfort.

Simultaneous heating and cooling of the rooms is what makes the VRF system a valid alternative to hydronic systems.



Example of a 3-pipe system



When dimensioning the cooling lines, exclusively refer to the technical manual.

A modular system made up of n base modules requires n-1 Y-joints.

MVAMHR

— 3-pipe system.
— Simultaneous cold and hot operation.
— Total maximum length of the refrigerant lines:
— **MVAMHR**: 1000 m

CONFIGURATIONS

MVA_S combinations

MVA_S connectable units

MVAS	Nominal cooling capacity (kW)	Min. no. of indoor units	Max. no. of indoor units
1201S	12,10	2	7
1401S	14,00	2	8
1601S	16,00	2	9
1201T	12,10	2	7
1401T	14,00	2	8
1601T	16,00	2	9
2242T	22,40	1	13
2802T	28,00	1	17
3351T	33,50	2	20

MVA_S outdoor unit with single duct type indoor unit

MVA_S	Nominal cooling capacity (kW)	No. indoor units	Compatible indoor unit
2242T	22,40	1	MVA2240DH
2802T	28,00	1	MVA2800DH

MVA_M combinations

MVAM permitted configurations

	Nominal cooling capacity	MVA_M combination Module				Connectible indoor units Number	
	(kW)	(A)	(B)	(C)	(D)	MINIMUM (1)	MAXIMUM (2)
Base Module	22,40	2241T	-	-	-	1	13
	28,00	2801T	-	-	-	1	16
	33,50	3351T	-	-	-	1	19
	40,00	4001T	-	-	-	1	23
	45,00	4501T	-	-	-	1	26
	50,40	5041T	-	-	-	1	29
	56,00	5601T	-	-	-	1	33
	61,50	6151T	-	-	-	2	36
Combinations	68,00	2801T	4001T	-	-	2	39
	73,00	2801T	4501T	-	-	2	43
	78,40	2801T	5041T	-	-	2	46
	84,00	2801T	5601T	-	-	2	50
	89,50	2801T	6151T	-	-	2	53
	95,00	3351T	6151T	-	-	2	56
	101,50	4001T	6151T	-	-	2	59
	106,50	4501T	6151T	-	-	2	63
	111,90	5041T	6151T	-	-	3	64
	117,50	5601T	6151T	-	-	3	64
	123,00	6151T	6151T	-	-	3	64
	129,00	2801T	4501T	5601T	-	3	64
	134,50	2801T	4501T	6151T	-	3	64
	140,00	3351T	4501T	6151T	-	3	66
	145,50	2801T	5601T	6151T	-	3	69
	151,00	2801T	6151T	6151T	-	3	71
	156,50	3351T	6151T	6151T	-	3	74
	163,00	4001T	6151T	6151T	-	3	77
	168,00	4501T	6151T	6151T	-	4	80
	173,40	5041T	6151T	6151T	-	4	80
	179,00	5601T	6151T	6151T	-	4	80
	184,50	6151T	6151T	6151T	-	4	80
	190,50	2801T	4501T	5601T	6151T	4	80
	195,90	2801T	5041T	5601T	6151T	4	80
	201,50	2801T	5601T	5601T	6151T	4	80
	207,00	2801T	5601T	6151T	6151T	4	80
	212,50	2801T	6151T	6151T	6151T	4	80
	218,00	3351T	6151T	6151T	6151T	4	80
	224,50	4001T	6151T	6151T	6151T	5	80
	229,50	4501T	6151T	6151T	6151T	5	80
	234,90	5041T	6151T	6151T	6151T	5	80
	240,50	5601T	6151T	6151T	6151T	5	80
	246,00	6151T	6151T	6151T	6151T	5	80

MVA_M permitted configurations

Nominal cooling capacity	MVA_M combination				Connectible indoor units	
	Module				Number	
(kW)	(A)	(B)	(C)	(D)	MINIMUM (1)	MAXIMUM (2)
50,40	2241T	2801T	-	-	1	29
56,00	2801T	2801T	-	-	1	33
61,50	2801T	3351T	-	-	2	36
78,50	3351T	4501T	-	-	2	46
85,00	4001T	4501T	-	-	2	50
90,00	4501T	4501T	-	-	2	53
96,00	2801T	2801T	4001T	-	2	56
101,00	2801T	2801T	4501T	-	2	59
106,50	2801T	3351T	4501T	-	3	63
113,00	2801T	4001T	4501T	-	3	64
118,00	2801T	4501T	4501T	-	3	64
123,50	3351T	4501T	4501T	-	3	64
130,00	4001T	4501T	4501T	-	3	64
135,00	4501T	4501T	4501T	-	3	64
141,00	2801T	2801T	4001T	4501T	3	66
146,00	2801T	2801T	4501T	4501T	3	69
151,50	2801T	3351T	4501T	4501T	3	71
158,00	2801T	4001T	4501T	4501T	3	74
163,00	2801T	4501T	4501T	4501T	3	77
168,50	3351T	4501T	4501T	4501T	4	80
175,00	4001T	4501T	4501T	4501T	4	80
180,00	4501T	4501T	4501T	4501T	4	80

MVA_MHR recommended configurations

	Nominal cooling capacity	MVA_MHR combination				Connectible indoor units	
		Module				Number	
	(kW)	(A)	(B)	(C)	(D)	MINIMUM (1)	MAXIMUM (2)
Base Module	22,40	2241T	-	-	-	1	13
	28,00	2801T	-	-	-	1	16
	33,50	3351T	-	-	-	1	19
	40,00	4001T	-	-	-	1	23
	45,00	4501T	-	-	-	1	26
Combinations	50,40	2241T	2801T	-	-	1	29
	56,00	2801T	2801T	-	-	1	33
	61,50	2801T	3351T	-	-	2	36
	68,00	2801T	4001T	-	-	2	39
	73,00	2801T	4501T	-	-	2	43
	78,50	3351T	4501T	-	-	2	46
	85,00	4001T	4501T	-	-	2	50
	90,00	4501T	4501T	-	-	2	53
	96,00	2801T	2801T	4001T	-	2	56
	101,00	2801T	2801T	4501T	-	2	59
	106,50	2801T	3351T	4501T	-	3	63
	113,00	2801T	4001T	4501T	-	3	64
	118,00	2801T	4501T	4501T	-	3	64
	123,50	3351T	4501T	4501T	-	3	64
	130,00	4001T	4501T	4501T	-	3	64
	135,00	4501T	4501T	4501T	-	3	64
	141,00	2801T	2801T	4001T	4501T	3	66
	146,00	2801T	2801T	4501T	4501T	3	69
	151,50	2801T	3351T	4501T	4501T	3	71
	158,00	2801T	4001T	4501T	4501T	3	74
	163,00	2801T	4501T	4501T	4501T	3	77
	168,50	3351T	4501T	4501T	4501T	4	80
	175,00	4001T	4501T	4501T	4501T	4	80
	180,00	4501T	4501T	4501T	4501T	4	80

The sum of powers for indoor units may never be less than 50% of the rated cooling capacity of the outdoor unit (or the sum of units) selected.
The sum of powers for indoor units may never be more than 135% of the rated cooling capacity of the outdoor unit (or the sum of units) selected.

PERFORMANCE SPECIFICATIONS INDOOR UNIT

MVA_WL

		MVA220WL	MVA280WL	MVA360WL	MVA450WL	MVA500WL	MVA560WL	MVA630WL	MVA710WL
Nominal cooling performances									
Cooling capacity (1)	kW	2,20	2,80	3,60	4,50	5,00	5,60	6,30	7,10
Nominal heating performances									
Heating capacity (2)	kW	2,50	3,20	4,00	5,00	5,60	6,30	7,10	7,50
Electric data									
Rated power input (3)	W	20	20	25	35	35	50	50	65
Fan									
Type	type	Inverter tangential							
Air flow rate									
Minimum	m^3/h	300	300	320	500	501	650	650	650
Average	m^3/h	440	440	460	580	580	850	850	850
Maximum	m^3/h	500	500	630	850	850	1100	1100	1200
Sound power									
Minimum	dB(A)	40,0	41,0	41,0	47,0	47,0	47,0	48,0	47,0
Average	dB(A)	43,0	43,0	45,0	50,0	50,0	51,0	51,0	51,0
Maximum	dB(A)	45,0	45,0	48,0	53,0	53,0	53,0	53,0	54,0
Sound pressure (4)									
Minimum	dB(A)	30,0	30,0	31,0	37,0	37,0	37,0	37,0	37,0
Average	dB(A)	33,0	33,0	35,0	40,0	40,0	41,0	41,0	41,0
Maximum	dB(A)	35,0	35,0	38,0	43,0	43,0	43,0	43,0	44,0
Refrigeration pipework									
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Power supply									
Indoor unit power supply		220-240V ~ 50Hz							
Indoor unit									
Condensate discharge diameter	mm	20,0	20,0	20,0	20,0	20,0	20,0	20,0	20,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_D

		MVA221D	MVA251D	MVA281D	MVA321D	MVA361D	MVA401D
Nominal cooling performances							
Cooling capacity (1)	kW	2,20	2,50	2,80	3,20	3,60	4,00
Nominal heating performances							
Heating capacity (2)	kW	2,50	2,80	3,20	3,60	4,00	4,50
Electric data							
Rated power input (3)	W	78	78	78	78	78	78
Fan							
Type	type	Inverter centrifugal					
Air flow rate							
Minimum	m^3/h	200	200	200	300	300	400
Average	m^3/h	350	350	350	400	400	550
Maximum	m^3/h	450	450	450	550	550	750
High static pressure							
Nominal	Pa	15	15	15	15	15	15
Minimum	Pa	0	0	0	0	0	0
Maximum	Pa	30	30	30	30	30	30
Sound power							
Minimum	dB(A)	32,0	32,0	32,0	35,0	35,0	37,0
Average	dB(A)	35,0	35,0	35,0	37,0	37,0	39,0
Maximum	dB(A)	40,0	40,0	40,0	41,0	41,0	43,0
Sound pressure (4)							
Minimum	dB(A)	22,0	22,0	22,0	25,0	25,0	27,0
Average	dB(A)	25,0	25,0	25,0	27,0	27,0	29,0
Maximum	dB(A)	30,0	30,0	30,0	31,0	31,0	33,0
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")					
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")
Power supply							
Indoor unit power supply		220-240V ~ 50Hz					
Indoor unit							
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0

		MVA451D	MVA501D	MVA561D	MVA631D	MVA711D	MVA801D
Nominal cooling performances							
Cooling capacity (1)	kW	4,50	5,00	5,60	6,30	7,10	8,00
Nominal heating performances							
Heating capacity (2)	kW	5,00	5,60	6,30	7,10	8,00	9,00
Electric data							
Rated power input (3)	W	78	117	117	117	154	110
Fan							
Type	type	Inverter centrifugal					
Air flow rate							
Minimum	m^3/h	400	550	550	550	650	900
Average	m^3/h	550	700	700	700	850	1100
Maximum	m^3/h	750	850	850	850	1100	1250
High static pressure							
Nominal	Pa	15	15	15	15	15	50
Minimum	Pa	0	0	0	0	0	0
Maximum	Pa	30	30	30	30	50	80
Sound power							
Minimum	dB(A)	37,0	39,0	39,0	39,0	40,0	46,0
Average	dB(A)	39,0	41,0	41,0	41,0	42,0	49,0
Maximum	dB(A)	43,0	45,0	45,0	45,0	47,0	52,0
Sound pressure (4)							
Minimum	dB(A)	27,0	29,0	29,0	29,0	30,0	31,0
Average	dB(A)	29,0	31,0	31,0	31,0	32,0	34,0
Maximum	dB(A)	33,0	35,0	35,0	35,0	37,0	37,0
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	12,7 (1/2")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Power supply							
Indoor unit power supply		220-240V ~ 50Hz					
Indoor unit							
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0

		MVA901D	MVA1001D	MVA1121D	MVA1251D	MVA1401D
Nominal cooling performances						
Cooling capacity (1)	kW	9,00	10,00	11,20	12,50	14,00
Nominal heating performances						
Heating capacity (2)	kW	10,00	11,20	12,50	14,00	16,00
Electric data						
Rated power input (3)	W	130	130	130	170	170
Fan						
Type	type	Inverter centrifugal				
Air flow rate						
Minimum	m^3/h	900	1000	1100	1400	1400
Average	m^3/h	1250	1350	1500	1700	1700
Maximum	m^3/h	1500	1500	1700	2000	2000
High static pressure						
Nominal	Pa	50	50	50	50	50
Minimum	Pa	0	0	0	0	0
Maximum	Pa	80	80	80	80	80
Sound power						
Minimum	dB(A)	47,0	47,0	47,0	52,0	52,0
Average	dB(A)	51,0	51,0	51,0	55,0	55,0
Maximum	dB(A)	55,0	55,0	55,0	57,0	57,0
Sound pressure (4)						
Minimum	dB(A)	32,0	32,0	32,0	37,0	37,0
Average	dB(A)	36,0	36,0	36,0	40,0	40,0
Maximum	dB(A)	40,0	40,0	40,0	42,0	42,0
Refrigeration pipework						
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")				
Diameter of refrigerant gas connections	mm (inch)	15,9 (5/8")				
Power supply						
Indoor unit power supply		220-240V ~ 50Hz				
Indoor unit						
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_DH

		MVA221DH	MVA251DH	MVA281DH	MVA321DH	MVA361DH	MVA401DH
Nominal cooling performances							
Cooling capacity (1)	kW	2,20	2,50	2,80	3,20	3,60	4,00
Nominal heating performances							
Heating capacity (2)	kW	2,50	2,80	3,20	3,60	4,00	4,50
Electric data							
Rated power input (3)	W	55	55	55	65	65	85
Fan							
Type	type	Inverter centrifugal					
Air flow rate							
Minimum	m^3/h	400	400	400	420	420	600
Average	m^3/h	480	480	480	500	500	700
Maximum	m^3/h	550	550	550	600	600	850
High static pressure							
Nominal	Pa	60	60	60	60	60	60
Minimum	Pa	0	0	0	0	0	0
Maximum	Pa	150	150	150	150	150	150
Sound power							
Minimum	dB(A)	41,0	41,0	41,0	42,0	42,0	44,0
Average	dB(A)	43,0	43,0	43,0	44,0	44,0	47,0
Maximum	dB(A)	45,0	45,0	45,0	46,0	46,0	50,0
Sound pressure (4)							
Minimum	dB(A)	31,0	31,0	31,0	32,0	32,0	34,0
Average	dB(A)	33,0	33,0	33,0	34,0	34,0	37,0
Maximum	dB(A)	35,0	35,0	35,0	36,0	36,0	40,0
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")					
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")
Power supply							
Indoor unit power supply		220-240V ~ 50Hz					
Indoor unit							
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0

		MVA451DH	MVA501DH	MVA561DH	MVA631DH	MVA711DH	MVA801DH
Nominal cooling performances							
Cooling capacity (1)	kW	4,50	5,00	5,60	6,30	7,10	8,00
Nominal heating performances							
Heating capacity (2)	kW	5,00	5,60	6,30	7,10	8,00	9,00
Electric data							
Rated power input (3)	W	85	85	90	90	100	100
Fan							
Type	type	Inverter centrifugal					
Air flow rate							
Minimum	m^3/h	600	600	700	700	950	950
Average	m^3/h	700	700	800	800	1050	1050
Maximum	m^3/h	850	850	1000	1000	1250	1250
High static pressure							
Nominal	Pa	60	60	90	90	90	90
Minimum	Pa	0	0	0	0	0	0
Maximum	Pa	150	150	200	200	200	200
Sound power							
Minimum	dB(A)	44,0	44,0	45,0	45,0	45,0	45,0
Average	dB(A)	47,0	47,0	48,0	48,0	49,0	49,0
Maximum	dB(A)	50,0	50,0	52,0	52,0	53,0	53,0
Sound pressure (4)							
Minimum	dB(A)	34,0	34,0	35,0	35,0	35,0	35,0
Average	dB(A)	37,0	37,0	38,0	38,0	39,0	39,0
Maximum	dB(A)	40,0	40,0	42,0	42,0	43,0	43,0
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	12,7 (1/2")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Power supply							
Indoor unit power supply		220-240V ~ 50Hz					
Indoor unit							
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0

		MVA901DH	MVA1001DH	MVA1121DH	MVA1251DH	MVA1401DH	MVA1601DH
Nominal cooling performances							
Cooling capacity (1)	kW	9,00	10,00	11,20	12,50	14,00	16,00
Nominal heating performances							
Heating capacity (2)	kW	10,00	11,20	12,50	14,00	16,00	18,00
Electric data							
Rated power input (3)	W	140	140	160	160	220	230
Fan							
Type	type	Inverter centrifugal					
Air flow rate							
Minimum	m^3/h	1250	1250	1400	1400	1650	1750
Average	m^3/h	1450	1450	1600	1600	1900	2000
Maximum	m^3/h	1800	1800	2000	2000	2350	2500
High static pressure							
Nominal	Pa	90	90	90	90	90	90
Minimum	Pa	0	0	0	0	0	0
Maximum	Pa	200	200	200	200	200	200
Sound power							
Minimum	dB(A)	48,0	48,0	50,0	50,0	51,0	52,0
Average	dB(A)	51,0	51,0	52,0	52,0	53,0	54,0
Maximum	dB(A)	54,0	54,0	55,0	55,0	56,0	57,0
Sound pressure (4)							
Minimum	dB(A)	38,0	38,0	40,0	40,0	41,0	42,0
Average	dB(A)	41,0	41,0	42,0	42,0	43,0	44,0
Maximum	dB(A)	44,0	44,0	45,0	45,0	46,0	47,0
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")					
Diameter of refrigerant gas connections	mm (inch)	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	19,05 (3/4")
Power supply							
Indoor unit power supply		220-240V ~ 50Hz					
Indoor unit							
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0

		MVA2240DH	MVA2800DH
Nominal cooling performances			
Cooling capacity (1)	kW	22,40	28,00
Nominal heating performances			
Heating capacity (2)	kW	24,00	30,00
Electric data			
Rated power input (3)	W	960	1250
Fan			
Type	type	Inverter centrifugal	
Air flow rate			
Minimum	m^3/h	-	-
Average	m^3/h	-	-
Maximum	m^3/h	4000	4400
High static pressure			
Nominal	Pa	150	150
Minimum	Pa	-	-
Maximum	Pa	-	-
Sound power			
Minimum	dB(A)	59,0	60,0
Average	dB(A)	62,0	62,0
Maximum	dB(A)	64,0	65,0
Sound pressure (4)			
Minimum	dB(A)	49,0	50,0
Average	dB(A)	52,0	52,0
Maximum	dB(A)	54,0	55,0
Refrigeration pipework			
Diameter of liquid refrigerant connections	mm (inch)	19,05 (3/4")	22,2 (7/8")
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	
Power supply			
Indoor unit power supply		220-240V ~ 50Hz	
Indoor unit			
Condensate discharge diameter	mm	30,0	30,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_DV

		MVA220DV	MVA280DV	MVA360DV	MVA450DV	MVA560DV	MVA630DV	MVA710DV
Nominal cooling performances								
Cooling capacity (1)	kW	2,20	2,80	3,60	4,50	5,60	6,30	7,10
Nominal heating performances								
Heating capacity (2)	kW	2,50	3,20	4,00	5,00	6,30	7,10	8,00
Electric data								
Rated power input (3)	W	35	35	43	45	80	80	90
Fan								
Type	type	Inverter centrifugal						
Air flow rate								
Minimum	m^3/h	250	250	350	400	600	600	700
Average	m^3/h	350	350	450	500	750	750	900
Maximum	m^3/h	450	450	550	650	900	900	1100
High static pressure								
Nominal	Pa	10	10	10	15	15	15	15
Minimum	Pa	0	0	0	0	0	0	0
Maximum	Pa	40	40	40	60	60	60	60
Sound power								
Minimum	dB(A)	35,0	35,0	38,0	38,0	40,0	40,0	43,0
Average	dB(A)	38,0	38,0	41,0	41,0	43,0	43,0	45,0
Maximum	dB(A)	40,0	40,0	43,0	43,0	45,0	45,0	47,0
Sound pressure (4)								
Minimum	dB(A)	25,0	25,0	28,0	28,0	30,0	30,0	33,0
Average	dB(A)	28,0	28,0	31,0	31,0	33,0	33,0	35,0
Maximum	dB(A)	30,0	30,0	33,0	33,0	35,0	35,0	37,0
Refrigeration pipework								
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Power supply								
Indoor unit power supply		220-240V ~ 50Hz						
Indoor unit								
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0	25,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_CS

		MVA220CS	MVA280CS	MVA360CS	MVA450CS	MVA500CS	MVA560CS
Nominal cooling performances							
Cooling capacity (1)	kW	2,20	2,80	3,60	4,50	5,00	5,60
Nominal heating performances							
Heating capacity (2)	kW	2,50	3,20	4,00	5,00	5,60	6,30
Electric data							
Rated power input (3)	W	35	35	35	45	45	45
Fan							
Type	type	Inverter centrifugal					
Air flow rate							
Minimum	m^3/h	400	400	400	480	480	480
Average	m^3/h	500	500	500	600	600	600
Maximum	m^3/h	600	600	600	700	700	700
Sound power							
Minimum	dB(A)	45,0	45,0	45,0	48,0	48,0	48,0
Average	dB(A)	49,0	49,0	49,0	53,0	53,0	53,0
Maximum	dB(A)	51,0	51,0	51,0	55,0	55,0	55,0
Sound pressure (4)							
Minimum	dB(A)	35,0	35,0	35,0	38,0	38,0	38,0
Average	dB(A)	39,0	39,0	39,0	43,0	43,0	43,0
Maximum	dB(A)	41,0	41,0	41,0	45,0	45,0	45,0
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")	15,9 (5/8")
Power supply							
Indoor unit power supply		220-240V ~ 50Hz					
Indoor unit							
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_C

		MVA280C	MVA360C	MVA450C	MVA500C	MVA560C	MVA630C	MVA710C
Nominal cooling performances								
Cooling capacity (1)	kW	2,80	3,60	4,50	5,00	5,60	6,30	7,10
Nominal heating performances								
Heating capacity (2)	kW	3,20	4,00	5,00	5,60	6,30	7,10	8,00
Electric data								
Rated power input (3)	W	48	48	48	50	59	59	68
Fan								
Type	type	Inverter centrifugal						
Air flow rate								
Minimum	m^3/h	550	550	550	550	750	750	850
Average	m^3/h	650	650	650	650	900	900	950
Maximum	m^3/h	750	750	750	830	1000	1000	1180
Sound power								
Minimum	dB(A)	41,0	41,0	41,0	41,0	42,0	42,0	43,0
Average	dB(A)	44,0	44,0	44,0	44,0	45,0	45,0	46,0
Maximum	dB(A)	46,0	46,0	46,0	46,0	47,0	47,0	48,0
Sound pressure (4)								
Minimum	dB(A)	31,0	31,0	31,0	31,0	32,0	32,0	33,0
Average	dB(A)	34,0	34,0	34,0	34,0	35,0	35,0	36,0
Maximum	dB(A)	36,0	36,0	36,0	36,0	37,0	37,0	38,0
Refrigeration pipework								
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Power supply								
Indoor unit power supply		220-240V ~ 50Hz						
Indoor unit								
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0	25,0

		MVA800C	MVA900C	MVA1000C	MVA1120C	MVA1250C	MVA1400C
Nominal cooling performances							
Cooling capacity (1)	kW	8,00	9,00	10,00	11,50	12,50	14,00
Nominal heating performances							
Heating capacity (2)	kW	9,00	10,00	11,20	12,50	14,00	16,00
Electric data							
Rated power input (3)	W	68	98	98	110	110	110
Fan							
Type	type	Inverter centrifugal					
Air flow rate							
Minimum	m^3/h	850	1100	1100	1100	1150	1150
Average	m^3/h	950	1350	1350	1400	1500	1500
Maximum	m^3/h	1180	1500	1500	1700	1860	1860
Sound power							
Minimum	dB(A)	43,0	45,0	45,0	46,0	48,0	48,0
Average	dB(A)	46,0	47,0	47,0	48,0	51,0	51,0
Maximum	dB(A)	48,0	50,0	50,0	51,0	53,0	53,0
Sound pressure (4)							
Minimum	dB(A)	33,0	35,0	35,0	36,0	38,0	38,0
Average	dB(A)	36,0	37,0	37,0	38,0	41,0	41,0
Maximum	dB(A)	38,0	40,0	40,0	41,0	43,0	43,0
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")					
Diameter of refrigerant gas connections	mm (inch)	15,9 (5/8")					
Power supply							
Indoor unit power supply		220-240V ~ 50Hz					
Indoor unit							
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0	25,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_CB

		MVA1600CB
Nominal cooling performances		
Cooling capacity (1)	kW	16,00
Nominal heating performances		
Heating capacity (2)	kW	17,50
Electric data		
Rated power input (3)	W	130
Fan		
Type	type	Inverter centrifugal
Air flow rate		
Minimum	m^3/h	1400
Average	m^3/h	1700
Maximum	m^3/h	2100
Sound power		
Minimum	dB(A)	52,0
Average	dB(A)	54,0
Maximum	dB(A)	57,0
Sound pressure (4)		
Minimum	dB(A)	42,0
Average	dB(A)	44,0
Maximum	dB(A)	47,0
Refrigeration pipework		
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	19,05 (3/4")
Power supply		
Indoor unit power supply		220-240V ~ 50Hz
Indoor unit		
Condensate discharge diameter	mm	25,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_C1

		MVA220C1	MVA280C1	MVA360C1	MVA450C1	MVA500C1
Nominal cooling performances						
Cooling capacity (1)	kW	2,20	2,80	3,60	4,50	5,00
Nominal heating performances						
Heating capacity (2)	kW	2,50	3,20	4,00	5,00	5,60
Electric data						
Rated power input (3)	W	30	30	30	30	30
Fan						
Type	type			Inverter tangential		
Air flow rate						
Minimum	m^3/h	450	450	450	500	500
Average	m^3/h	500	500	500	600	600
Maximum	m^3/h	600	600	600	830	830
Sound power						
Minimum	dB(A)	38,0	38,0	38,0	40,0	40,0
Average	dB(A)	42,0	42,0	42,0	45,0	45,0
Maximum	dB(A)	46,0	46,0	46,0	50,0	50,0
Sound pressure (4)						
Minimum	dB(A)	28,0	28,0	28,0	30,0	30,0
Average	dB(A)	32,0	32,0	32,0	35,0	35,0
Maximum	dB(A)	36,0	36,0	36,0	40,0	40,0
Refrigeration pipework						
Diameter of liquid refrigerant connections	mm (inch)			6,35 (1/4")		
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")
Power supply						
Indoor unit power supply				220-240V ~ 50Hz		
Indoor unit						
Condensate discharge diameter	mm	25,0	25,0	25,0	25,0	25,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_F

		MVA280F	MVA360F	MVA500F	MVA630F	MVA710F	MVA900F	MVA1120F	MVA1250F	MVA1400F
Nominal cooling performances										
Cooling capacity (1)	kW	2,80	3,60	5,00	6,30	7,10	9,00	11,20	12,50	14,00
Nominal heating performances										
Heating capacity (2)	kW	3,20	4,00	5,60	7,10	8,00	10,00	12,50	14,00	16,00
Electric data										
Rated power input (3)	W	40	40	50	75	75	140	160	160	160
Fan										
Type	type					Inverter centrifugal				
Air flow rate										
Minimum	m^3/h	500	500	700	1000	1000	1200	1450	1450	1450
Average	m^3/h	580	580	850	1150	1150	1400	1800	1800	1800
Maximum	m^3/h	650	650	950	1400	1400	1600	2000	2000	2000
Sound power										
Minimum	dB(A)	42,0	42,0	43,0	49,0	49,0	53,0	52,0	55,0	55,0
Average	dB(A)	44,0	44,0	48,0	52,0	52,0	57,0	57,0	59,0	59,0
Maximum	dB(A)	46,0	46,0	52,0	54,0	54,0	60,0	61,0	62,0	62,0
Sound pressure (4)										
Minimum	dB(A)	32,0	32,0	33,0	39,0	39,0	43,0	42,0	45,0	45,0
Average	dB(A)	34,0	34,0	38,0	42,0	42,0	47,0	47,0	49,0	49,0
Maximum	dB(A)	36,0	36,0	42,0	44,0	44,0	50,0	51,0	52,0	52,0
Refrigeration pipework										
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	9,52 (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")
Power supply										
Indoor unit power supply						220-240V ~ 50Hz				
Indoor unit										
Condensate discharge diameter	mm	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_FS

		MVA220FS	MVA280FS	MVA360FS	MVA450FS	MVA500FS
Nominal cooling performances						
Cooling capacity (1)	kW	2,20	2,80	3,60	4,50	5,00
Nominal heating performances						
Heating capacity (2)	kW	2,50	3,20	4,00	5,00	5,50
Electric data						
Rated power input (3)	W	15	15	20	40	40
Fan						
Type	type			Inverter centrifugal		
Air flow rate						
Minimum	m^3/h	270	270	310	500	500
Average	m^3/h	320	320	400	600	600
Maximum	m^3/h	400	400	480	680	680
Sound power						
Minimum	dB(A)	37,0	37,0	42,0	49,0	49,0
Average	dB(A)	43,0	43,0	47,0	53,0	53,0
Maximum	dB(A)	48,0	48,0	50,0	56,0	56,0
Sound pressure (4)						
Minimum	dB(A)	27,0	27,0	32,0	39,0	39,0
Average	dB(A)	33,0	33,0	37,0	43,0	43,0
Maximum	dB(A)	38,0	38,0	40,0	46,0	46,0
Refrigeration pipework						
Diameter of liquid refrigerant connections	mm (inch)			6,35 (1/4")		
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")
Power supply						
Indoor unit power supply				220-240V ~ 50Hz		
Indoor unit						
Condensate discharge diameter	mm	17,2	17,2	17,2	17,2	17,2

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_V

		MVA1000V	MVA1400V
Nominal cooling performances			
Cooling capacity (1)	kW	10,00	14,00
Nominal heating performances			
Heating capacity (2)	kW	11,00	15,00
Electric data			
Rated power input (3)	W	200	200
Fan			
Type	type	Inverter centrifugal	
Air flow rate			
Minimum	m^3/h	1400	1400
Average	m^3/h	1600	1600
Maximum	m^3/h	1850	1850
Sound power			
Minimum	dB(A)	56,0	56,0
Average	dB(A)	58,0	58,0
Maximum	dB(A)	60,0	60,0
Sound pressure (4)			
Minimum	dB(A)	46,0	46,0
Average	dB(A)	48,0	48,0
Maximum	dB(A)	50,0	50,0
Refrigeration pipework			
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")	
Diameter of refrigerant gas connections	mm (inch)	15,9 (5/8")	
Power supply			
Indoor unit power supply		220-240V ~ 50Hz	
Indoor unit			
Condensate discharge diameter	mm	31,0	31,0

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) Heating (EN-14511 and EN-14825) ambient air temperature 20 °C D.B.; outside air temperature 7 °C D.B. / 6 °C W.B.; max speed; length of refrigerant lines 5 m.
(3) 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.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

2-PIPE SYSTEM OUTDOOR UNIT PERFORMANCE DATA

		MVAS 1201S	MVAS 1201T	MVAS 1401S	MVAS 1401T	MVAS 1601S	MVAS 1601T	MVAS 2242T	MVAS 2802T	MVAS 3351T
Nominal cooling performances										
Cooling capacity	kW	12,10	12,10	14,00	14,00	16,00	16,00	22,40	28,00	33,50
Cooling input power	kW	3,03	3,03	3,59	3,59	4,75	4,75	6,12	7,78	9,57
Cooling input current	A	-	-	-	-	-	-	10,9	13,9	17,1
EER	W/W	3,99	3,99	3,90	3,90	3,37	3,37	3,66	3,60	3,50
Nominal heating performances										
Heating capacity	kW	14,00	14,00	16,50	16,50	18,00	18,00	24,00	30,00	35,00
Heating input power	kW	3,27	3,27	3,95	3,95	4,65	4,65	4,90	6,12	7,14
Heating input current	A	-	-	-	-	-	-	8,8	10,9	12,8
COP	W/W	4,28	4,28	4,18	4,18	3,87	3,87	4,90	4,90	4,90
Fan										
Type	type	Inverter axial								
Number	no.	2	2	2	2	2	2	2	2	2
Air flow rate										
Nominal	m^3/h	6000	6000	6300	6300	6600	6600	8000	11000	11000
Sound pressure										
Nominal	dB(A)	57,0	57,0	58,0	58,0	58,0	58,0	63,0	65,0	65,0
Compressor										
Type	type	Scroll inverter								
Number	no.	1	1	1	1	1	1	1	1	1
Refrigerant	type	R410A								
Refrigerant charge	kg	3,3	3,3	3,3	3,3	3,3	3,3	5,5	7,1	80,0
Electric data										
Rated power input	kW	-	-	-	-	-	-	9,6	12,5	13,7
Rated current input	A	30,4	11,1	33,7	12,0	36,3	12,5	17,2	22,4	24,5
Refrigeration pipework										
Maximum refrigerant tube length	m	300								
Power supply										
Outdoor unit power supply		220-240V ~ 50Hz	380-415V ~ 3N ~ 50Hz	220-240V ~ 50Hz	380-415V ~ 3N ~ 50Hz	220-240V ~ 50Hz	380-415V ~ 3N ~ 50Hz	380-415V ~ 3N ~ 50Hz	380-415V ~ 3N ~ 50Hz	380-415V ~ 3N ~ 50Hz

		MVAM 2241T	MVAM 2801T	MVAM 3351T	MVAM 4001T	MVAM 4501T	MVAM 5041T	MVAM 5601T	MVAM 6151T
Nominal cooling performances									
Cooling capacity (1)	kW	22,40	28,00	33,50	40,00	45,00	50,40	56,00	61,50
Cooling input power (1)	kW	4,74	6,25	8,40	10,53	12,82	15,75	20,00	29,29
Cooling input current	A	8,5	11,2	15,0	18,8	22,9	28,2	35,8	52,4
EER (2)	W/W	4,73	4,48	3,99	3,80	3,51	3,20	2,80	2,10
Nominal heating performances									
Heating capacity (3)	kW	25,00	31,50	37,50	45,00	50,00	56,50	63,00	69,00
Heating input power (3)	kW	4,81	5,67	7,14	9,51	10,86	14,10	16,60	18,90
Heating input current	A	8,6	10,1	12,8	17,0	19,4	25,2	29,7	33,8
COP (2)	W/W	5,20	5,56	5,25	4,73	4,60	4,01	3,80	3,65
Fan									
Type	type	Inverter axial							
Number	no.	1	1	1	2	2	2	2	2
Air flow rate									
Nominal	m^3/h	11400	11400	14000	14000	16000	16000	16000	16000
Sound pressure (4)									
Nominal	dB(A)	60,0	61,0	63,0	63,0	63,0	63,0	63,0	64,0
Compressor									
Type	type	Scroll inverter							
Number	no.	1	1	1	2	2	2	2	2
Refrigerant	type	R410A							
Refrigerant charge	kg	5,9	9,0	8,2	9,8	10,3	11,3	14,3	14,3
Electric data									
Rated power input (5)	kW	9,0	11,7	13,8	16,1	18,6	25,0	28,0	30,0
Rated current input (5)	A	16,1	20,9	24,6	28,8	33,2	44,7	50,0	53,6
Refrigeration pipework									
Type refrigerant connections	Type	To be soldered							
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Diameter of refrigerant gas connections	mm (inch)	19,05 (3/4")	22,2 (7/8")	25,4 (1")	25,4 (1")	28,6 (1" 1/8)	28,6 (1" 1/8)	28,6 (1" 1/8)	28,6 (1" 1/8)
Maximum refrigerant tube length	m	1000							
Power supply									
Outdoor unit power supply		380-415V ~ 3N ~ 50Hz							

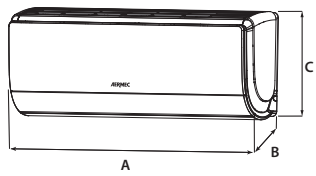
(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max speed; length of refrigerant lines 5 m.
(2) EER/COP in accordance with the Standard (EN-14511), only declared for the purposes of the tax deductions in force at the time of this publication.
(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.; max speed; length of refrigerant lines 5 m.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.
(5) 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.

3-PIPE SYSTEM OUTDOOR UNIT PERFORMANCE DATA

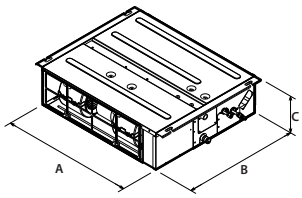
		MVAMHR 2241T	MVAMHR 2801T	MVAMHR 3351T	MVAMHR 4001T	MVAMHR 4501T
Nominal cooling performances						
Cooling capacity (1)	kW	22,40	28,00	33,50	40,00	45,00
Cooling input power (1)	kW	5,48	8,15	8,30	11,90	14,80
Cooling input current	A	9,8	14,6	14,8	21,3	26,5
EER (2)	W/W	4,09	3,44	4,04	3,36	3,04
Nominal heating performances						
Heating capacity (3)	kW	25,00	31,50	37,50	45,00	50,00
Heating input power (3)	kW	5,26	7,30	7,70	10,00	12,70
Heating input current	A	9,4	13,0	13,8	17,9	22,7
COP (2)	W/W	4,75	4,32	4,87	4,50	3,94
Fan						
Type	type			Inverter axial		
Number	no.	1	1	2	2	2
Air flow rate						
Nominal	m^3/h	11400	11400	14000	14000	14000
Sound pressure (4)						
Nominal	dB(A)	60,0	61,0	63,0	63,0	63,0
Compressor						
Type	type			Scroll inverter		
Number	no.	1	1	1	2	2
Refrigerant	type			R410A		
Refrigerant charge	kg	6,2	7,1	9,6	11,1	11,6
Electric data						
Rated power input (5)	kW	9,1	11,7	13,8	16,1	18,6
Rated current input (5)	A	16,3	20,9	24,7	28,8	33,2
Refrigeration pipework						
Type refrigerant connections	Type			To be soldered		
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	12,7 (1/2")	12,7 (1/2")
Diameter of high pressure refrigerant gas connections	mm (inch)	15,9 (5/8")	19,05 (3/4")	19,05 (3/4")	22,2 (7/8")	22,2 (7/8")
Diameter of low pressure refrigerant gas connections	mm (inch)	19,05 (3/4")	22,2 (7/8")	25,4 (1/1")	25,4 (1/1")	28,6 (1"1/8)
Maximum refrigerant tube length	m			1000		
Power supply						
Outdoor unit power supply				380-415V ~ 3N ~ 50Hz		

(1) Cooling (EN-14511 and EN-14825) ambient air temperature 27 °C D.B. / 19 °C W.B.; outside air temperature 35 °C; max 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.; max speed; length of refrigerant lines 5 m.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.
(5) 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.

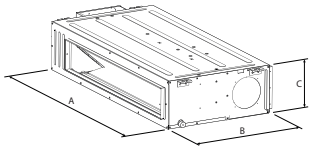
INDOOR UNIT WEIGHTS AND DIMENSIONS



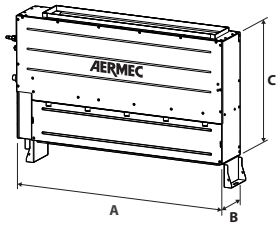
MVA_WL



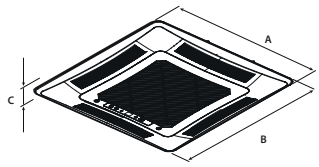
MVA_D



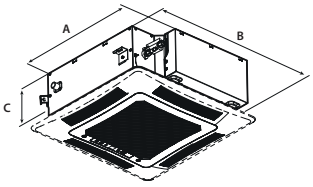
MVA_DH



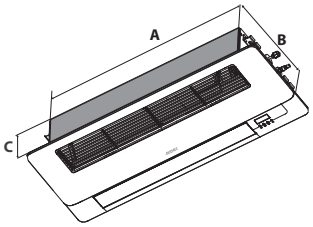
MVA_DV



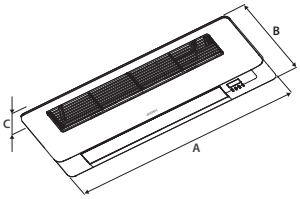
GL40S / GL40 / GL40B



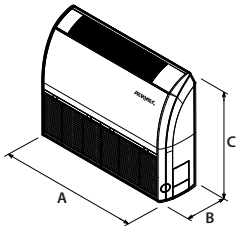
MVA_C / MVA_CS / MVA_CB



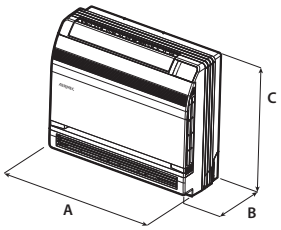
MVA_C1



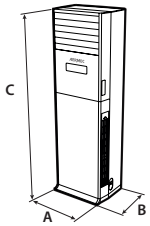
GLC1



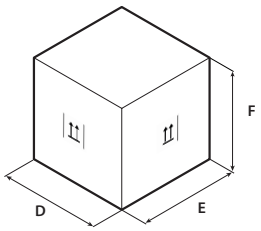
MVA_F



MVA_FS



MVA_V



MVA_WL

Indoor unit		MVA220WL	MVA280WL	MVA360WL	MVA450WL	MVA500WL	MVA560WL	MVA630WL	MVA710WL
A	mm	845	845	845	970	970	1078	1078	1078
B	mm	209	209	209	224	224	246	246	246
C	mm	289	289	289	300	300	325	325	325
D	mm	976	976	976	1096	1096	1203	1203	1203
E	mm	281	281	281	320	320	350	350	350
F	mm	379	379	379	383	383	413	413	413
Net weight	kg	11	11	11	13	13	16	16	16
Weight for transport	kg	13	13	13	16	16	19	19	19

MVA_D

Indoor unit		MVA221D	MVA251D	MVA281D	MVA321D	MVA361D	MVA401D	MVA451D	MVA501D	MVA561D
A	mm	710	710	710	710	710	1010	1010	1010	1010
B	mm	462	462	462	462	462	462	462	462	462
C	mm	200	200	200	200	200	200	200	200	200
D	mm	1008	1008	1008	1008	1008	1308	1308	1308	1308
E	mm	568	568	568	568	568	568	568	568	568
F	mm	275	275	275	275	275	275	275	275	275
Net weight	kg	19	19	19	19	19	25	25	25	25
Weight for transport	kg	24	24	24	24	24	31	31	31	31

Indoor unit		MVA631D	MVA711D	MVA801D	MVA901D	MVA1001D	MVA1121D	MVA1251D	MVA1401D
A	mm	1010	1310	1200	1340	1340	1340	1340	1340
B	mm	462	462	655	655	655	655	655	655
C	mm	200	200	260	260	260	260	260	260
D	mm	1308	1608	1448	1588	1588	1588	1588	1588
E	mm	568	568	858	858	858	858	858	858
F	mm	275	275	315	315	315	315	315	315
Net weight	kg	25	31	39	46	46	46	47	47
Weight for transport	kg	31	38	48	55	55	55	56	56

MVA_DH

Indoor unit		MVA221DH	MVA251DH	MVA281DH	MVA321DH	MVA361DH	MVA401DH	MVA451DH	MVA501DH	MVA561DH	MVA631DH
A	mm	700	700	700	700	700	700	700	700	1000	1000
B	mm	700	700	700	700	700	700	700	700	700	700
C	mm	300	300	300	300	300	300	300	300	300	300
D	mm	897	897	897	897	897	897	897	897	1205	1205
E	mm	808	808	808	808	808	808	808	808	813	813
F	mm	362	362	362	362	362	362	362	362	360	360
Net weight	kg	32	32	32	32	32	34	34	34	43	43
Weight for transport	kg	38	38	38	38	38	40	40	40	49	49

Indoor unit		MVA711DH	MVA801DH	MVA901DH	MVA1001DH	MVA1121DH	MVA1251DH	MVA1401DH	MVA1601DH	MVA2240DH	MVA2800DH
A	mm	1000	1000	1400	1400	1400	1400	1400	1400	1483	1686
B	mm	700	700	700	700	700	700	700	700	791	870
C	mm	300	300	300	300	300	300	300	300	385	450
D	mm	1205	1205	1601	1601	1601	1601	1678	1678	1758	1788
E	mm	813	813	813	813	813	813	808	808	883	988
F	mm	360	360	365	365	365	365	365	365	470	580
Net weight	kg	43	43	57	57	57	57	57	57	133	144
Weight for transport	kg	49	49	64	64	64	64	67	67	166	183

MVA_DV

Indoor unit		MVA220DV	MVA280DV	MVA360DV	MVA450DV	MVA560DV	MVA630DV	MVA710DV
A	mm	700	700	700	900	1100	1100	1100
B	mm	200	200	200	200	200	200	200
C	mm	615	615	615	615	615	615	615
D	mm	893	893	893	1123	1323	1323	1323
E	mm	305	305	305	305	305	305	305
F	mm	743	743	743	743	743	743	743
Net weight	kg	23	23	23	27	32	32	32
Weight for transport	kg	30	30	30	36	41	41	41

MVA_CS

Indoor unit		MVA220CS	MVA280CS	MVA360CS	MVA450CS	MVA500CS	MVA560CS
A	mm	596	596	596	596	596	596
B	mm	596	596	596	596	596	596
C	mm	240	240	240	240	240	240
D	mm	773	773	773	773	773	773
E	mm	773	773	773	773	773	773
F	mm	300	300	300	300	300	300
Net weight	kg	21	21	21	21	21	21
Weight for transport	kg	26	26	26	26	26	26

MVA_C

Indoor unit		MVA280C	MVA360C	MVA450C	MVA500C	MVA560C	MVA630C	MVA710C
A	mm	840	840	840	840	840	840	840
B	mm	840	840	840	840	840	840	840
C	mm	190	190	190	190	240	240	240
D	mm	963	963	963	963	963	963	963
E	mm	963	963	963	963	963	963	963
F	mm	272	272	272	272	325	325	325
Net weight	kg	23	23	23	23	27	27	27
Weight for transport	kg	30	30	30	30	35	35	35

Indoor unit		MVA800C	MVA900C	MVA1000C	MVA1120C	MVA1250C	MVA1400C
A	mm	840	840	840	840	840	840
B	mm	840	840	840	840	840	840
C	mm	240	320	320	320	320	320
D	mm	963	963	963	963	963	963
E	mm	963	963	963	963	963	963
F	mm	325	409	409	409	409	409
Net weight	kg	27	33	33	33	33	33
Weight for transport	kg	35	40	40	40	40	40

MVA_CB

Indoor unit		MVA1600CB
A	mm	910
B	mm	910
C	mm	290
D	mm	1023
E	mm	993
F	mm	375
Net weight	kg	47
Weight for transport	kg	57

MVA_C1

Indoor unit		MVA220C1	MVA280C1	MVA360C1	MVA450C1	MVA500C1
A	mm	987	987	987	987	987
B	mm	385	385	385	385	385
C	mm	178	178	178	178	178
D	mm	1307	1307	1307	1307	1307
E	mm	501	501	501	501	501
F	mm	310	310	310	310	310
Net weight	kg	20	20	20	21	21
Weight for transport	kg	27	27	27	29	29

MVA_F

Indoor unit		MVA280F	MVA360F	MVA500F	MVA630F	MVA710F	MVA900F	MVA1120F	MVA1250F	MVA1400F
A	mm	1220	1220	1220	1420	1420	1420	1700	1700	1700
B	mm	225	225	225	245	245	245	245	245	245
C	mm	700	700	700	700	700	700	700	700	700
D	mm	1343	1343	1343	1548	1548	1548	1828	1828	1828
E	mm	315	315	315	345	345	345	345	345	345
F	mm	823	823	823	828	828	828	828	828	828
Net weight	kg	40	40	40	50	50	50	60	60	60
Weight for transport	kg	49	49	49	58	58	58	68	68	68

MVA_FS

Indoor unit		MVA220FS	MVA280FS	MVA360FS	MVA450FS	MVA500FS
A	mm	700	700	700	700	700
B	mm	215	215	215	215	215
C	mm	600	600	600	600	600
D	mm	780	780	780	780	780
E	mm	285	285	285	285	285
F	mm	682	682	682	682	682
Net weight	kg	16	16	16	16	16
Weight for transport	kg	19	19	19	19	19

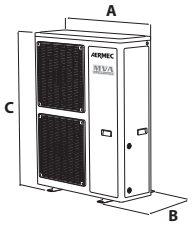
MVA_V

Indoor unit		MVA1000V	MVA1400V
A	mm	580	580
B	mm	400	400
C	mm	1870	1870
D	mm	738	738
E	mm	545	545
F	mm	2083	2083
Net weight	kg	54	57
Weight for transport	kg	74	77

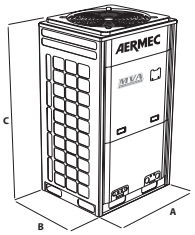
GL40S / GL40 / GL40B / GLC1

		GLC1	GL40B	GL40S	GL40
A	mm	1200	1040	670	950
B	mm	460	1040	670	950
C	mm	55	65	50	60
D	mm	1265	1137	763	1038
E	mm	536	1137	763	1033
F	mm	118	140	105	133
Net weight	kg	4	8	4	7
Weight for transport	kg	6	12	5	11

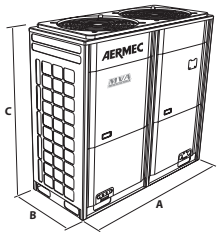
OUTDOOR UNIT WEIGHTS AND DIMENSIONS



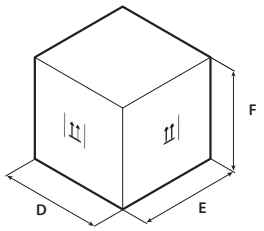
MVA_S



MVA_M



MVA_MHR



MVA_S

Outdoor unit		MVAS 1201S	MVAS 1201T	MVAS 1401S	MVAS 1401T	MVAS 1601S	MVAS 1601T	MVAS 2242T	MVAS 2802T	MVAS 3351T
A	mm	900	900	900	900	900	900	940	940	940
B	mm	340	340	340	340	340	340	320	460	460
C	mm	1345	1345	1345	1345	1345	1345	1430	1615	1615
D	mm	1408	1048	1408	1048	1408	1048	1038	1038	1038
E	mm	458	458	458	458	458	458	438	578	578
F	mm	1507	1507	1507	1507	1507	1507	1580	1765	1765
Net weight	kg	110	120	110	120	110	120	133	166	177
Weight for transport	kg	123	133	123	133	123	133	144	183	194

MVA_M

Outdoor unit		MVAM 2241T	MVAM 2801T	MVAM 3351T	MVAM 4001T	MVAM 4501T	MVAM 5041T	MVAM 5601T	MVAM 6151T
A	mm	930	930	1340	1340	1340	1340	1340	1340
B	mm	765	765	765	765	765	765	765	765
C	mm	1605	1605	1605	1605	1740	1740	1740	1740
D	mm	1010	1010	1420	1420	1420	1420	1420	1420
E	mm	840	840	840	840	840	840	840	840
F	mm	1775	1775	1775	1775	1910	1910	1910	1910
Net weight	kg	225	225	285	360	360	360	385	385
Weight for transport	kg	235	245	300	375	375	375	400	400

MVA_MHR

Outdoor unit		MVAMHR 2241T	MVAMHR 2801T	MVAMHR 3351T	MVAMHR 4001T	MVAMHR 4501T
A	mm	930	930	1340	1340	1340
B	mm	765	765	765	765	765
C	mm	1605	1605	1605	1605	1605
D	mm	1010	1010	1420	1420	1420
E	mm	840	840	840	840	840
F	mm	1775	1775	1775	1775	1775
Net weight	kg	233	233	302	346	346
Weight for transport	kg	243	243	317	361	361

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