

CL 025H-200H

Reversible air/water heat pump

Cooling capacity 6,5 ÷ 50,9 kW – Heating capacity 7,7 ÷ 44,8 kW

- Cooling / heating / high-temperature water production even for DHW production.
- Water produced up to 60 °C
- Heating operations with external temperatures down to -15 °C
- Fan Plug-fan



DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users. The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A With storage tank and pump

P With pump

FEATURES

Operating field

Working at full load up to -15 °C outside air temperature in winter, and up to 46 °C in summer. Hot water production up to 60 °C.

EC fan plug-fan

The units are equipped with plug-fans and inverter motors coupled directly with the fan, with the electronic condensation control as standard, which adjusts the air flow according to the actual system requirements, with benefits in terms of consumption and noise reduction.

In addition, compared to conventional centrifugal fans, they do not feature belt and pulley transmission, resulting in easy flow adjustment, compactness, versatility, easy maintenance and no vibrations.

Air supply

Horizontal or vertical, adjustable during installation for all sizes.

Directional air discharge hood:

- plastic for sizes 050 to 090
- galvanised steel for the other sizes

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to save money and to facilitate installation.

Hot water production

Special attention has been paid to winter operation: compared with traditional heat pumps, the operating limits have been extended thanks to particular technological expedients.

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

The regulation using an outside air temperature sensor allows a dynamic control of the water temperature produced by increasing the energy efficiency of the system.

ACCESSORIES

AERBAC-MODU: Ethernet communication Interface for protocols Bacnet/IP and Modbus TCP/IP. The accessory is supplied with the unit and must be installed on an external electrical panel.

AERLINK: Aerlink is a WiFi gateway with an RS485 serial port that allows a wide range of Aermec products (heat pumps/chillers/system controllers) equipped with this interface to connect easily and securely to a Wi-Fi network. It works both as an access point (AP access point) and as a client (WiFi Station), it can be connected to a single generator or system centraliser, allowing anyone to easily integrate them into any network. Thanks to the AerApp and AerPlants apps, which can be used on Android and iOS platforms, the remote management of the air conditioning systems developed by Aermec becomes intuitive and simple.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol.

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SDHW: Domestic hot water sensor. To be used with a storage tank for the control of water temperature produced.

SGD: Electronic expansion that enables connecting to the photovoltaic system and heat pumps to accumulate heat in the DHW tank or in the heating

system during the photovoltaic production phase and release it at times when heating demand is highest.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VT: Anti-vibration supports.

BSKW: Electric heaters kit with IP44 panel for remote mounting in a sheltered area.

CLPA: Galvanised steel plenum to be installed on the condenser coil, facilitates duct installations.

PR4: Remote panel with LCD display and touch keyboard that allows carrying out the basic controls, the programming of time ranges and the signalling of the alarms of a single unit.

■ *For the installation of the PR4 remote panel, the MODU-485BL communication interface is indispensable.*

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

KRB: Electric anti-freeze resistance kit for base.

GPCL: Protection grille for the source side exchange coil.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

Accessories

Model	Ver	025	030	040	050	070	080	090	100	150	200
AERBAC-MODU	°A,P	.	.	.	.	.	.	.	.	.	.
AERLINK	°A,P	.	.	.	.	.	.	.	.	.	.
AERSET	°A,P	.	.	.	.	.	.	.	.	.	.
MODU-485BL	°A,P	.	.	.	.	.	.	.	.	.	.
MULTICONTROL	°A,P	.	.	.	.	.	.	.	.	.	.
PR3	°A,P	.	.	.	.	.	.	.	.	.	.
SDHW (1)	°A,P	.	.	.	.	.	.	.	.	.	.
SGD	°A,P	.	.	.	.	.	.	.	.	.	.
SPLW (2)	°A,P	.	.	.	.	.	.	.	.	.	.

(1) Probe required for MULTICONTROL for managing the domestic hot water system.

(2) Probe required for MULTICONTROL to manage the secondary circuit system.

■ *MODU-485BL = Accessory mandatory for the production of domestic hot water*

Remote panel

Model	Ver	025	030	040	050	070	080	090	100	150	200
PR4	°A,P	.	.	.	.	.	.	.	.	.	.

For the installation of the PR4 remote panel, the MODU-485BL communication interface is indispensable.

Antivibration

Ver	025	030	040	050	070	080	090	100	150	200
°P	VT9	VT9	VT9	VT9	VT9	VT9	VT9	VT15	VT15	VT15
A	VT15A	VT15A	VT15A	VT15A	VT15A	VT15A	VT15A	VT15	VT15	VT15

BSKW: Electric heater kit

Ver	025	030	040	050	070	080	090	100	150	200
Power supply: M										
°A,P	BS4KW230M, BS6KW230M	BS4KW230M, BS6KW230M	BS4KW230M, BS6KW230M	-	-	-	-	-	-	-
Power supply: °										
°A,P	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T	BS6KW400T, BS9KW400T

Galvanised steel plenum

Ver	025	030	040	050	070	080	090	100	150	200
°A,P	CLPA1 (1)	CLPA1 (1)	CLPA2 (2)	CLPA2 (2)	CLPA2 (2)	CLPA2 (2)	CLPA2 (2)	CLPA3	CLPA3	CLPA3

(1) Not compatible with the GPCL1 accessory

(2) Not compatible with the GPCL2 accessory

Device for peak current reduction

Ver	025	030	040	050	070	080	090	100	150	200
Power supply: °										
°A,P	DRES (1)	DRES (1)	DRES (1)	DRES (1)	DRES (1)	DRES (1)	DRES (1)	DRES x 2 (1)	DRES x 2 (1)	DRES x 2 (1)

(1) Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

A grey background indicates the accessory must be assembled in the factory

Electric Heater for the Base

Ver	025	030	040	050	070	080	090	100	150	200
°A,P	KRB4 (1)	KRB4 (1)	KRB5 (1)	KRB5 (1)	KRB5 (1)	KRB5 (1)	KRB5 (1)	KRB6 (1)	KRB6 (1)	KRB6 (1)

(1) Incompatible with the condensate collection basin accessory with integrated resistance.

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

Ver	025	030	040	050	070	080	090	100	150	200
°A,P	GPCL1	GPCL1	GPCL2	GPCL2	GPCL2	GPCL2	GPCL2	GPCL3	GPCL3	GPCL3

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

Field	Description
1,2	CL
3,4,5	Size 025, 030, 040, 050, 070, 080, 090, 100, 150, 200
6	Model
H	Heat pump
7	Execution
°	Standard
8	Version
°	Standard
A	With storage tank and pump (1)
P	With pump
9	Heat recovery
°	Without heat recovery
10	Coils
R	Copper pipes-copper fins
V	Copper pipes-Coated aluminium fins
°	Copper-aluminium
11	Operating field
Y	Low temperature mechanic thermostatic valve (2)
Z	Low temperature electronic thermostatic valve (3)
°	Standard mechanic thermostatic valve (4)
12	Evaporator
°	Standard
13	Power supply
M	230V ~ 50Hz (5)
°	400V 3N ~ 50Hz (6)

(1) The version with integrated storage tank is not suitable for the production of domestic hot water (DHW).

(2) Water produced from 0 °C ÷ - 10 °C

(3) Water produced from 0 °C ÷ 4 °C

(4) Water produced from 4 °C ÷ 18 °C

(5) Only for CL 025 ÷ 040 sizes

(6) Only for CL 025 ÷ 200 sizes

PERFORMANCE SPECIFICATIONS 12 °C / 7 °C - 40 °C / 45 °C

CL - (H°)

Size		025	030	040	050	070	080	090	100	150	200
Power supply: M											
Cooling performance 12 °C / 7 °C (1)											
Cooling capacity	kW	6,4	8,4	10,4	-	-	-	-	-	-	-
Input power	kW	2,6	3,1	3,8	-	-	-	-	-	-	-
Cooling total input current	A	11,00	12,00	11,90	-	-	-	-	-	-	-
EER	W/W	2,44	2,73	2,74	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.104	1.441	1.785	-	-	-	-	-	-	-
Pressure drop system side	kPa	13	12	13	-	-	-	-	-	-	-
Heating performance 40 °C / 45 °C (2)											
Heating capacity	kW	7,9	9,8	12,5	-	-	-	-	-	-	-
Input power	kW	2,3	2,9	3,7	-	-	-	-	-	-	-
Heating total input current	A	11,00	12,00	11,90	-	-	-	-	-	-	-
COP	W/W	3,41	3,32	3,40	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.368	1.693	2.164	-	-	-	-	-	-	-
Pressure drop system side	kPa	19	16	18	-	-	-	-	-	-	-

(1) Data EN 14511:2022; Heat exchanger water (services side) 12 °C / 7 °C; outside air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

Size		025	030	040	050	070	080	090	100	150	200
Power supply: °											
Cooling performance 12 °C / 7 °C (1)											
Cooling capacity	kW	6,4	8,4	10,4	11,9	14,0	15,5	19,0	23,9	31,3	37,6
Input power	kW	2,6	3,1	3,8	4,2	4,8	5,6	6,8	8,2	10,9	14,4
Cooling total input current	A	5,50	6,30	6,70	7,70	8,40	9,80	13,40	14,30	21,20	26,60
EER	W/W	2,44	2,73	2,74	2,87	2,90	2,77	2,81	2,93	2,86	2,61
Water flow rate system side	l/h	1.104	1.441	1.785	2.054	2.411	2.676	3.272	4.122	5.388	6.477
Pressure drop system side	kPa	13	12	13	11	15	26	26	34	22	43
Heating performance 40 °C / 45 °C (2)											
Heating capacity	kW	7,9	9,8	12,5	14,4	15,9	18,6	21,0	27,8	34,8	43,8
Input power	kW	2,3	2,9	3,7	4,1	4,7	5,5	6,5	8,1	10,6	14,4
Heating total input current	A	5,50	6,20	6,50	7,60	8,20	9,30	12,70	14,30	19,40	26,50
COP	W/W	3,41	3,32	3,40	3,52	3,36	3,40	3,20	3,44	3,27	3,03
Water flow rate system side	l/h	1.368	1.693	2.164	2.502	2.756	3.214	3.634	4.822	6.034	7.581
Pressure drop system side	kPa	19	16	18	17	21	32	34	49	30	42

(1) Data EN 14511:2022; Heat exchanger water (services side) 12 °C / 7 °C; outside air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

CL - (HP/HA)

Size		025	030	040	050	070	080	090	100	150	200
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Power supply: M**Cooling performance 12 °C / 7 °C (1)**

Cooling capacity	kW	6,5	8,4	10,4	-	-	-	-	-	-	-
Input power	kW	2,6	3,0	3,8	-	-	-	-	-	-	-
Cooling total input current	A	11,70	12,70	12,60	-	-	-	-	-	-	-
EER	W/W	2,48	2,76	2,77	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.104	1.441	1.785	-	-	-	-	-	-	-
Useful head system side	kPa	67	50	48	-	-	-	-	-	-	-

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW	7,8	9,7	12,4	-	-	-	-	-	-	-
Input power	kW	2,3	2,9	3,7	-	-	-	-	-	-	-
Heating total input current	A	11,70	12,70	12,60	-	-	-	-	-	-	-
COP	W/W	3,40	3,31	3,38	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.368	1.693	2.164	-	-	-	-	-	-	-
Useful head system side	kPa	53	33	25	-	-	-	-	-	-	-

(1) Data EN 14511:2022; Heat exchanger water (services side) 12 °C / 7 °C; outside air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

Size		025	030	040	050	070	080	090	100	150	200
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Power supply: °**Cooling performance 12 °C / 7 °C (1)**

Cooling capacity	kW	6,5	8,4	10,5	12,0	14,1	15,7	19,1	24,2	31,6	38,0
Input power	kW	2,6	3,0	3,7	4,2	4,8	5,6	6,7	8,3	11,3	14,7
Cooling total input current	A	5,80	6,70	7,10	8,30	9,00	10,40	14,10	15,40	23,00	28,50
EER	W/W	2,49	2,79	2,79	2,90	2,94	2,82	2,85	2,91	2,81	2,58
Water flow rate system side	l/h	1.104	1.441	1.785	2.054	2.411	2.676	3.272	4.122	5.388	6.477
Useful head system side	kPa	76	75	69	92	86	80	64	99	158	145

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW	7,8	9,7	12,4	14,3	15,8	18,4	20,8	27,6	34,5	43,4
Input power	kW	2,3	2,9	3,6	4,1	4,7	5,4	6,5	8,2	11,0	14,8
Heating total input current	A	5,80	6,60	6,90	8,30	8,80	10,00	13,40	15,50	21,30	28,50
COP	W/W	3,42	3,34	3,42	3,50	3,35	3,40	3,21	3,35	3,14	2,92
Water flow rate system side	l/h	1.368	1.693	2.164	2.502	2.756	3.214	3.634	4.822	6.034	7.581
Useful head system side	kPa	68	67	56	84	78	66	53	72	133	103

(1) Data EN 14511:2022; Heat exchanger water (services side) 12 °C / 7 °C; outside air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

PERFORMANCE SPECIFICATIONS 23 °C / 18 °C - 30 °C / 35 °C**CL - (H°)**

Size		025	030	040	050	070	080	090	100	150	200
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Power supply: M**Cooling performance 23 °C / 18 °C (1)**

Cooling capacity	kW	8,5	11,1	13,8	-	-	-	-	-	-	-
Input power	kW	2,8	3,3	4,0	-	-	-	-	-	-	-
Cooling total input current	A	11,00	12,00	11,90	-	-	-	-	-	-	-
EER	W/W	3,05	3,42	3,43	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.472	1.922	2.381	-	-	-	-	-	-	-
Pressure drop system side	kPa	23	21	23	-	-	-	-	-	-	-

Heating performance 30 °C / 35 °C (2)

Heating capacity	kW	8,2	10,1	12,9	-	-	-	-	-	-	-
Input power	kW	2,0	2,5	3,1	-	-	-	-	-	-	-
Heating total input current	A	10,10	12,00	11,90	-	-	-	-	-	-	-
COP	W/W	4,16	4,08	4,15	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.413	1.749	2.235	-	-	-	-	-	-	-
Pressure drop system side	kPa	20	17	19	-	-	-	-	-	-	-

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

Size		025	030	040	050	070	080	090	100	150	200
Power supply: °											
Cooling performance 23 °C / 18 °C (1)											
Cooling capacity	kW	8,5	11,1	13,8	15,8	18,6	20,6	25,2	31,7	41,6	49,9
Input power	kW	2,8	3,3	4,0	4,4	5,1	6,0	7,2	8,7	11,6	15,4
Cooling total input current	A	5,80	6,60	7,00	8,10	8,80	10,30	14,10	15,10	22,40	28,00
EER	W/W	3,05	3,42	3,43	3,59	3,63	3,45	3,50	3,63	3,57	3,24
Water flow rate system side	l/h	1.472	1.922	2.381	2.740	3.216	3.570	4.364	5.498	7.187	8.639
Pressure drop system side	kPa	23	21	23	20	27	46	46	60	39	77
Heating performance 30 °C / 35 °C (2)											
Heating capacity	kW	8,2	10,1	12,9	15,0	16,5	19,2	21,7	28,9	36,1	45,4
Input power	kW	2,0	2,5	3,1	3,5	4,0	4,6	5,5	6,8	9,0	12,4
Heating total input current	A	4,70	5,30	5,60	6,50	6,90	7,90	10,80	12,20	16,60	22,80
COP	W/W	4,16	4,08	4,15	4,30	4,12	4,17	3,93	4,22	3,99	3,67
Water flow rate system side	l/h	1.413	1.749	2.235	2.585	2.846	3.320	3.754	4.981	6.233	7.832
Pressure drop system side	kPa	20	17	19	18	22	34	36	52	32	45

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

CL - (HP/HA)

Size		025	030	040	050	070	080	090	100	150	200
Power supply: M											
Cooling performance 23 °C / 18 °C (1)											
Cooling capacity	kW	8,6	11,2	13,8	-	-	-	-	-	-	-
Input power	kW	2,8	3,3	4,0	-	-	-	-	-	-	-
Cooling total input current	A	11,70	12,70	12,60	-	-	-	-	-	-	-
EER	W/W	3,10	3,43	3,44	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.472	1.922	2.381	-	-	-	-	-	-	-
Useful head system side	kPa	46	14	10	-	-	-	-	-	-	-
Heating performance 30 °C / 35 °C (2)											
Heating capacity	kW	8,1	10,1	12,9	-	-	-	-	-	-	-
Input power	kW	2,0	2,5	3,1	-	-	-	-	-	-	-
Heating total input current	A	10,70	12,70	12,60	-	-	-	-	-	-	-
COP	W/W	4,16	4,05	4,13	-	-	-	-	-	-	-
Water flow rate system side	l/h	1.413	1.749	2.235	-	-	-	-	-	-	-
Useful head system side	kPa	50	29	20	-	-	-	-	-	-	-

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

Size		025	030	040	050	070	080	090	100	150	200
Power supply: °											
Cooling performance 23 °C / 18 °C (1)											
Cooling capacity	kW	8,6	11,2	13,9	16,0	18,7	20,8	25,4	32,0	41,9	50,3
Input power	kW	2,7	3,2	4,0	4,4	5,1	5,9	7,2	8,9	12,1	15,8
Cooling total input current	A	6,20	7,00	7,40	8,70	9,50	11,00	14,80	16,40	24,30	30,10
EER	W/W	3,13	3,50	3,50	3,64	3,69	3,52	3,55	3,58	3,45	3,18
Water flow rate system side	l/h	1.472	1.922	2.381	2.740	3.216	3.570	4.364	5.498	7.187	8.639
Useful head system side	kPa	63	59	48	79	66	55	27	41	81	57
Heating performance 30 °C / 35 °C (2)											
Heating capacity	kW	8,1	10,0	12,8	14,8	16,3	19,1	21,6	28,6	35,8	45,0
Input power	kW	1,9	2,4	3,1	3,4	4,0	4,6	5,5	7,0	9,4	12,8
Heating total input current	A	5,00	5,60	6,00	7,10	7,60	8,60	11,50	13,30	18,50	24,80
COP	W/W	4,18	4,11	4,19	4,30	4,13	4,19	3,94	4,09	3,80	3,52
Water flow rate system side	l/h	1.413	1.749	2.235	2.585	2.846	3.320	3.754	4.981	6.233	7.832
Useful head system side	kPa	66	65	54	82	76	63	49	65	124	93

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

230V-1-50Hz / 400V-3N-50Hz

Size			025	030	040	050	070	080	090	100	150	200
Power supply: °												
SEER - 12/7 (EN14825:2018)												
Seasonal efficiency	°	%	114,20	127,60	129,60	134,80	134,00	127,80	132,40	159,20	159,20	143,40
	A,P	%	121,40	135,90	138,00	141,90	141,70	135,30	141,00	159,50	150,80	141,10
SEER	°	W/W	2,93	3,27	3,32	3,45	3,43	3,27	3,39	4,06	4,06	3,66
	A,P	W/W	3,11	3,47	3,53	3,62	3,62	3,46	3,60	4,06	3,85	3,60
Water Regulation (1)	°A,P	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
Performance in average ambient conditions (average) - 35 °C (2)												
Efficiency energy class	°A,P		A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Pdesignh	°	kW	7,00	9,00	11,00	13,00	14,00	16,00	18,00	25,00	31,00	39,00
	A,P	kW	7,00	8,00	11,00	12,00	14,00	16,00	18,00	24,00	29,00	37,00
ηsh	°	%	131,00	131,00	135,00	140,00	135,00	138,00	129,00	138,00	131,00	126,00
	A,P	%	134,00	134,00	138,00	142,00	137,00	140,00	131,00	135,00	126,00	125,00
SCOP	°	W/W	3,35	3,35	3,45	3,58	3,45	3,53	3,30	3,53	3,35	3,23
	A,P	W/W	3,43	3,43	3,53	3,63	3,50	3,58	3,35	3,45	3,23	3,20
Water Regulation (1)	°A,P	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

(2) Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

Size			025	030	040	050	070	080	090	100	150	200
Power supply: M												
Electric data												
Maximum current (FLA)	°	A	19,0	24,0	24,0	-	-	-	-	-	-	-
	A,P	A	19,8	24,7	25,0	-	-	-	-	-	-	-
Peak current (LRA)	°	A	86,0	96,0	96,0	-	-	-	-	-	-	-
	A,P	A	87,1	96,5	97,1	-	-	-	-	-	-	-
Size			025	030	040	050	070	080	090	100	150	200
Power supply: °												
Electric data												
Maximum current (FLA)	°	A	11,0	11,9	11,9	13,5	14,7	15,2	20,4	27,0	30,3	40,8
	A,P	A	11,4	12,4	12,3	14,3	15,4	15,9	21,1	29,0	33,4	43,8
Peak current (LRA)	°	A	44,6	44,6	57,1	64,2	74,2	94,2	105,2	77,7	109,3	125,6
	A,P	A	45,0	45,0	57,6	64,9	74,9	94,9	105,9	79,6	112,4	128,6

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			025	030	040	050	070	080	090	100	150	200
Power supply: °												
Compressor												
Type	°A,P	type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor regulation	°A,P	Type	On-off	On-off	On-off	On-off	On-off	On-off	On-off	On-off	On-off	On-off
Number	°A,P	no.	1	1	1	1	1	1	1	2	2	2
Circuits	°A,P	no.	1	1	1	1	1	1	1	1	1	1
Refrigerant	°A,P	type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Total refrigerant charge (1)	°A,P	kg	2,87	2,68	4,27	5,62	5,62	5,62	5,73	8,30	8,00	7,50
Potential global heating (GWP)	°A,P		2088	2088	2088	2088	2088	2088	2088	2088	2088	2088
Equivalent CO ₂	°A,P	tCO ₂ eq	5,99	5,60	8,92	11,73	11,73	11,73	11,96	17,33	16,70	15,66

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

System side heat exchanger

Size			025	030	040	050	070	080	090	100	150	200
System side heat exchanger												
Type	°A,P	type	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Number	°A,P	no.	1	1	1	1	1	1	1	1	1	1
Hydraulic connections												
Connections (in/out)	°A,P	Type	Gas - F	Gas - F	Gas - F	Gas - F	Gas - F	Gas - F	Gas - F	Gas - F	Gas - F	Gas - F
Size (out)	°A,P	Ø	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼
Sizes (in/out)	°A,P	Ø	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

Fans

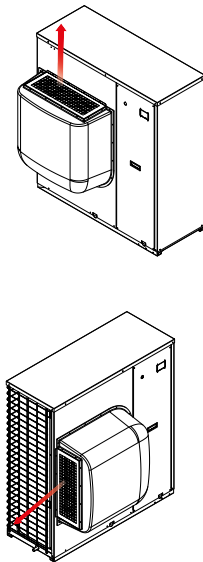
Size			025	030	040	050	070	080	090	100	150	200
Fan												
Type	°A,P	type	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan
Fan motor	°A,P	type	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Number	°A,P	no.	1	1	1	1	1	1	1	2	2	2
Air flow rate	°A,P	m³/h	4.000	4.000	6.500	6.500	6.500	6.500	7.500	10.000	12.000	16.000
High static pressure	°A,P	Pa	50	50	50	80	80	80	80	80	100	100

Sound data

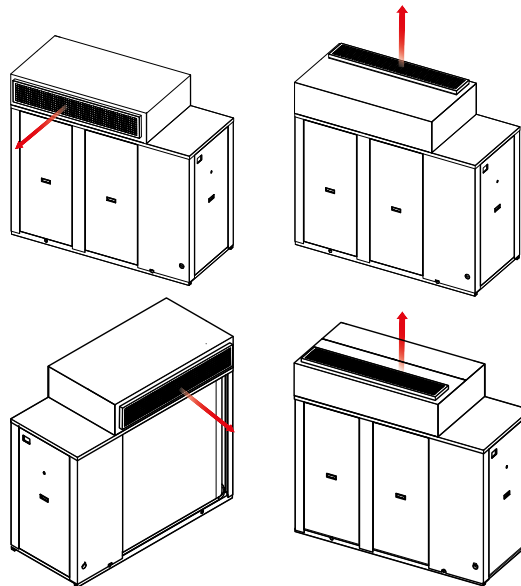
Size			025	030	040	050	070	080	090	100	150	200
Intake plus machine body												
Sound power level	°A,P	dB(A)	78,0	78,0	73,0	73,0	73,0	73,0	76,0	74,0	79,0	80,0
Sound pressure level in cooling mode (10 m)	°A,P	dB(A)	46,0	46,0	41,0	41,0	41,0	41,0	44,0	42,0	47,0	48,0
Machine exhaust												
Sound power level	°A,P	dB(A)	78,0	78,0	78,0	78,0	78,0	78,0	81,0	78,0	83,0	85,0
Sound pressure level in cooling mode (10 m)	°A,P	dB(A)	46,0	46,0	46,0	46,0	46,0	46,0	49,0	47,0	52,0	54,0

DISCHARGE HOOD POSSIBLE CONFIGURATIONS

CL 025 ÷ 090



CL 100 ÷ 200



Air supply

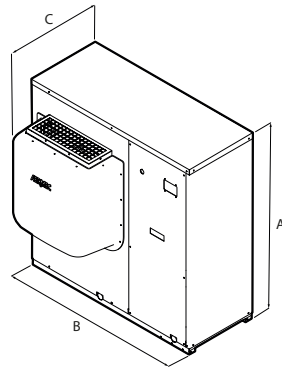
Horizontal or vertical, adjustable during installation for all sizes.

Directional air discharge hood:

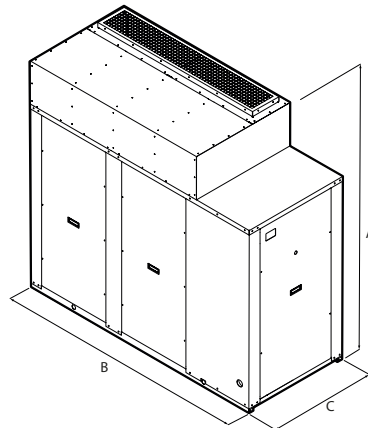
- plastic for sizes 050 to 090
- galvanised steel for the other sizes

DIMENSIONS

CL 025 ÷ 090



CL 100 ÷ 200



Size			025	030	040	050	070	080	090	100	150	200
Dimensions and weights												
A	°A,P	mm	1.028	1.028	1.281	1.281	1.281	1.281	1.281	1.674	1.674	1.674
	°P	mm	1.005	1.005	1.160	1.160	1.160	1.160	1.160	1.897	1.897	1.897
B	A	mm	1.366	1.366	1.610	1.610	1.610	1.610	1.610	1.897	1.897	1.897
	°A,P	mm	702	702	798	798	798	798	798	801	801	801
C	°	kg	142	142	229	229	240	240	234	504	527	515
	A	kg	172	172	274	274	284	284	279	567	593	581
Empty weight	P	kg	148	148	239	239	250	250	243	517	543	531

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
responsibility or liability for errors or omissions.

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