

ANK 020-150

Reversible air/water heat pump

Cooling capacity 6,8 ÷ 39,8 kW – Heating capacity 8,0 ÷ 35,3 kW

- Production of hot water up to 60 °C
- Production of hot domestic water with outside temperatures from -20 °C up to 42 °C
- Quick & easy installation



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. It's optimised for use in heating mode, and can be combined not only with low-temperature emission systems such as floor heating or fan coils, but also conventional radiators. Equipped with scroll compressors, axial fans, external coil with aluminium louvers, plate heat exchanger on the side. 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 -20°C outside air temperature in winter, and up to 46°C in summer. Possibility production technical hot water production up to 60°C (for more information see the technical documentation).

Soft-start

Version with Integrated hydronic kit

To have a Plug & Play solution is also available the version with the integrated Hydronic group that contains the main hydraulic components including the water filter.

Inverter fan

Inverter fans as standard in size up 020 to 085 in all versions.

■ The DCPX accessory is not required for these sizes.

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.

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

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the

VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

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

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

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

VT: Anti-vibration supports.

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

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

KRB: Electric anti-freeze resistance kit for base.

BDX: Condensate drip with resistance

COMPATIBILITY WITH VMF SYSTEM

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

ACCESSORIES COMPATIBILITY

Model	Ver	020	030	040	045	050	085	100	150
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	*	*	*	*	*	*	*	*
VMF-CRP	°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.

Remote panel

Model	Ver	020	030	040	045	050	085	100	150
PR4	°A,P	*	*	*	*	*	*	*	*

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

Condensation control temperature

Ver	020	030	040	045	050	085	100	150
°A,P	-	-	-	-	-	-	DCPX3	DCPX3

The accessory cannot be fitted on the configurations indicated with -

Electric heater kit with case IP44

Ver	020	030	040	045	050	085	100	150
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

Antivibration

Ver	020	030	040	045	050	085	100	150
°P	VT9	VT9	VT9	VT9	VT9	VT9	VT15	VT15
A	VT15A	VT15A	VT15A	VT15A	VT15A	VT15A	VT15	VT15

Device for peak current reduction.

Ver	020	030	040	045	050	085	100	150
°A,P	DRES (1)	DRES (1)	DRES (1)	DRES (1)	DRES (1)	DRES (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	020	030	040	045	050	085	100	150
°A,P	KRB1 (1)	KRB2 (1)	KRB2 (1)	KRB2 (1)	KRB2 (1)	KRB2 (1)	KRB3 (1)	KRB3 (1)

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

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

Condensate drip

Ver	020	030	040	045	050	085	100	150
°A,P	BDX8	BDX9	BDX9	BDX9	BDX9	BDX9	-	-

The accessory cannot be fitted on the configurations indicated with -

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

CONFIGURATOR

Field	Description
1,2,3	ANK
4,5,6	Size 020, 030, 040, 045, 050, 085, 100, 150
7	Model
H	Heat pump
8	Version
°	Standard
A	With storage tank and pump
P	With pump
9	Execution
°	Standard
10	Coils
R	Copper pipes-copper fins
V	Copper pipes-Coated aluminium fins

Field	Description
°	Copper-aluminium
11	Operating field
Y	Low temperature mechanic thermostatic valve (1)
Z	Low temperature electronic thermostatic valve (2)
°	Standard mechanic thermostatic valve (3)
12	Evaporator
°	Standard
13	Power supply
M	230V ~ 50Hz (4)
°	400V 3N ~ 50Hz (5)

- (1) Water produced from 0 °C ÷ -8 °C
(2) Water produced from +4 °C up to +0 °C
(3) Water produced up to +4 °C
(4) Only for ANK 020 ÷ 045 sizes
(5) For ANK 020 ÷ 045 sizes

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

ANK - (°) / 12/7 °C - 40/45 °C

Size	020	030	040	045	050	085	100	150
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Power supply: M

Cooling performance 12 °C / 7 °C (1)

Cooling capacity	kW	6,8	8,2	9,6	11,7	-	-	-	-
Input power	kW	2,3	2,8	3,2	3,7	-	-	-	-
Cooling total input current	A	11,00	13,00	16,00	19,00	-	-	-	-
EER	W/W	2,92	2,91	2,97	3,16	-	-	-	-
Water flow rate system side	l/h	1.179	1.406	1.649	2.018	-	-	-	-
Pressure drop system side	kPa	16	9	14	14	-	-	-	-

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW	8,0	10,0	10,9	13,5	-	-	-	-
Input power	kW	2,5	3,1	3,4	3,8	-	-	-	-
Heating total input current	A	12,00	15,00	17,00	19,00	-	-	-	-
COP	W/W	3,16	3,24	3,15	3,50	-	-	-	-
Water flow rate system side	l/h	1.376	1.738	1.881	2.332	-	-	-	-
Pressure drop system side	kPa	22	14	18	19	-	-	-	-

- (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	020	030	040	045	050	085	100	150
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Power supply: °

Cooling performance 12 °C / 7 °C (1)

Cooling capacity	kW	6,8	8,2	10,5	11,6	13,1	15,5	25,3	29,3
Input power	kW	2,3	2,8	3,5	4,0	4,3	5,2	8,1	10,0
Cooling total input current	A	4,30	5,60	7,10	7,70	8,70	11,00	17,00	20,00
EER	W/W	2,93	2,91	2,98	2,93	3,03	3,00	3,12	2,92
Water flow rate system side	l/h	1.169	1.406	1.811	1.997	2.253	2.677	4.362	5.056
Pressure drop system side	kPa	16	9	16	14	18	24	32	36

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW	8,0	10,0	12,2	14,0	15,3	17,4	27,1	33,3
Input power	kW	2,5	3,1	3,8	4,2	4,4	5,0	8,3	10,5
Heating total input current	A	4,70	6,20	7,60	8,00	9,00	10,00	18,00	21,00
COP	W/W	3,21	3,24	3,25	3,38	3,48	3,46	3,24	3,19
Water flow rate system side	l/h	1.376	1.738	2.117	2.430	2.656	3.021	4.689	5.774
Pressure drop system side	kPa	22	14	22	21	25	31	37	47

- (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.

ANK - (A/P) / 12/7 °C - 40/45 °C

Size	020	030	040	045	050	085	100	150
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Power supply: M**Cooling performance 12 °C / 7 °C (1)**

Cooling capacity	kW	6,9	8,2	9,7	11,8	-	-	-
Input power	kW	2,3	2,8	3,2	3,7	-	-	-
Cooling total input current	A	12,00	14,00	16,00	20,00	-	-	-
EER	W/W	2,99	2,96	3,02	3,17	-	-	-
Water flow rate system side	l/h	1.179	1.406	1.649	2.018	-	-	-
Useful head system side	kPa	78	71	62	70	-	-	-

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW	7,9	9,9	10,8	13,4	-	-	-
Input power	kW	2,5	3,1	3,4	3,9	-	-	-
Heating total input current	A	13,00	15,00	18,00	20,00	-	-	-
COP	W/W	3,17	3,25	3,16	3,45	-	-	-
Water flow rate system side	l/h	1.376	1.738	1.881	2.332	-	-	-
Useful head system side	kPa	72	58	52	57	-	-	-

(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	020	030	040	045	050	085	100	150
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Power supply: °**Cooling performance 12 °C / 7 °C (1)**

Cooling capacity	kW	6,9	8,2	10,6	11,7	13,2	15,7	25,6	29,7
Input power	kW	2,3	2,8	3,5	4,0	4,3	5,2	8,2	10,4
Cooling total input current	A	4,60	6,00	7,50	8,30	9,30	11,00	18,00	22,00
EER	W/W	3,00	2,97	3,05	2,95	3,06	3,03	3,12	2,87
Water flow rate system side	l/h	1.169	1.406	1.811	1.997	2.253	2.677	4.362	5.056
Useful head system side	kPa	78	82	70	81	74	63	115	144

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW	7,9	9,9	12,1	13,9	15,2	17,3	26,8	33,0
Input power	kW	2,4	3,0	3,7	4,2	4,4	5,0	8,4	10,8
Heating total input current	A	5,00	6,60	8,00	8,60	9,60	11,00	19,00	23,00
COP	W/W	3,22	3,26	3,27	3,35	3,46	3,44	3,18	3,05
Water flow rate system side	l/h	1.376	1.738	2.117	2.430	2.656	3.021	4.689	5.774
Useful head system side	kPa	72	76	61	68	59	50	105	109

(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**ANK - (°) / 23/18 °C - 30/35 °C**

Size	020	030	040	045	050	085	100	150
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Power supply: M**Cooling performance 23 °C / 18 °C (1)**

Cooling capacity	kW	9,5	11,4	13,3	16,3	-	-	-
Input power	kW	2,5	2,9	3,4	3,9	-	-	-
Cooling total input current	A	12,00	14,00	17,00	19,00	-	-	-
EER	W/W	3,86	3,86	3,94	4,19	-	-	-
Water flow rate system side	l/h	1.652	1.969	2.310	2.826	-	-	-
Pressure drop system side	kPa	31	18	27	27	-	-	-

Heating performance 30 °C / 35 °C (2)

Heating capacity	kW	8,5	10,6	11,6	14,0	-	-	-
Input power	kW	2,2	2,6	2,8	3,3	-	-	-
Heating total input current	A	10,00	12,00	14,00	16,00	-	-	-
COP	W/W	3,96	4,04	4,08	4,30	-	-	-
Water flow rate system side	l/h	1.473	1.830	2.001	2.424	-	-	-
Pressure drop system side	kPa	25	15	21	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		020	030	040	045	050	085	100	150
Power supply: °									
Cooling performance 23 °C / 18 °C (1)									
Cooling capacity	kW	9,5	11,4	14,7	16,2	18,2	21,7	34,0	39,4
Input power	kW	2,4	2,9	3,7	4,2	4,5	5,5	8,8	10,9
Cooling total input current	A	4,50	5,80	7,40	8,00	9,10	11,00	18,00	22,00
EER	W/W	3,88	3,86	3,95	3,89	4,02	3,96	3,86	3,61
Water flow rate system side	l/h	1.637	1.969	2.536	2.797	3.155	3.749	5.889	6.826
Pressure drop system side	kPa	31	18	31	27	35	47	58	66
Heating performance 30 °C / 35 °C (2)									
Heating capacity	kW	8,5	10,6	13,0	14,6	16,2	18,2	29,2	35,6
Input power	kW	2,1	2,6	3,1	3,5	3,8	4,3	6,9	8,8
Heating total input current	A	4,00	5,20	6,20	6,80	7,70	8,90	15,00	18,00
COP	W/W	4,03	4,04	4,20	4,15	4,31	4,18	4,21	4,07
Water flow rate system side	l/h	1.473	1.830	2.253	2.525	2.799	3.137	5.041	6.147
Pressure drop system side	kPa	25	15	25	22	28	33	43	53

(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.

ANK - (A/P) / 23/18 °C - 30/35 °C

Size		020	030	040	045	050	085	100	150
Power supply: M									
Cooling performance 23 °C / 18 °C (1)									
Cooling capacity	kW	9,6	11,5	13,4	16,4	-	-	-	-
Input power	kW	2,4	2,9	3,4	3,9	-	-	-	-
Cooling total input current	A	12,00	14,00	17,00	20,00	-	-	-	-
EER	W/W	3,99	3,93	4,00	4,18	-	-	-	-
Water flow rate system side	l/h	1.652	1.969	2.310	2.826	-	-	-	-
Useful head system side	kPa	62	47	29	32	-	-	-	-
Heating performance 30 °C / 35 °C (2)									
Heating capacity	kW	8,6	10,8	11,9	13,8	-	-	-	-
Input power	kW	2,2	2,6	2,9	3,4	-	-	-	-
Heating total input current	A	11,00	13,00	15,00	17,00	-	-	-	-
COP	W/W	3,88	4,11	4,10	4,11	-	-	-	-
Water flow rate system side	l/h	1.486	1.877	2.061	2.397	-	-	-	-
Useful head system side	kPa	58	65	58	79	-	-	-	-

(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		020	030	040	045	050	085	100	150
Power supply: °									
Cooling performance 23 °C / 18 °C (1)									
Cooling capacity	kW	9,5	11,5	14,8	16,3	18,4	21,8	34,3	39,8
Input power	kW	2,4	2,9	3,6	4,2	4,5	5,5	8,9	11,4
Cooling total input current	A	5,10	6,50	8,10	9,20	10,00	12,00	19,00	24,00
EER	W/W	4,00	3,98	4,06	3,92	4,05	3,99	3,85	3,48
Water flow rate system side	l/h	1.637	1.969	2.536	2.797	3.155	3.749	5.889	6.826
Useful head system side	kPa	62	70	45	55	38	16	66	51
Heating performance 30 °C / 35 °C (2)									
Heating capacity	kW	8,4	10,5	12,9	14,5	16,1	18,0	28,9	35,3
Input power	kW	2,1	2,6	3,0	3,5	3,8	4,3	7,0	9,2
Heating total input current	A	4,60	5,90	6,90	7,90	8,80	10,00	16,00	20,00
COP	W/W	4,07	4,08	4,26	4,12	4,28	4,16	4,11	3,85
Water flow rate system side	l/h	1.473	1.830	2.253	2.525	2.799	3.137	5.041	6.147
Useful head system side	kPa	69	73	56	65	54	45	95	90

(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

Size			020	030	040	045	050	085	100	150
Power supply: M										
SEER - 12/7 (EN14825:2018)										
SEER	°	W/W	3,07	3,18	3,27	3,55	-	-	-	-
	A,P	W/W	3,10	3,20	3,34	3,54	-	-	-	-
Seasonal efficiency	°	%	119,60	124,10	127,80	139,00	-	-	-	-
	A,P	%	121,10	125,00	130,70	138,40	-	-	-	-
Water Regulation (1)	°;A,P	type	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+	-	-	-	-
Pdesignh	°;A,P	kW	7,00	9,00	10,00	12,00	-	-	-	-
SCOP	°	W/W	3,33	3,40	3,43	3,55	-	-	-	-
	A,P	W/W	3,40	3,50	3,50	3,60	-	-	-	-
ηsh	°	%	130,00	133,00	134,00	139,00	-	-	-	-
	A,P	%	133,00	137,00	137,00	141,00	-	-	-	-
Water Regulation (1)	°;A,P	type	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)

Size			020	030	040	045	050	085	100	150
Power supply: °										
SEER - 12/7 (EN14825:2018)										
SEER	°	W/W	3,07	3,18	3,32	3,32	3,45	3,45	3,81	3,63
	A,P	W/W	3,09	3,20	3,59	3,33	3,46	3,50	3,74	3,50
Seasonal efficiency	°	%	119,80	124,10	129,80	129,80	135,00	135,00	149,40	142,30
	A,P	%	120,70	125,00	132,50	130,10	135,40	137,10	146,60	137,00
Water Regulation (1)	°;A,P	type	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+	A+	A+	A+	A+	A+	A++	A++
	A,P		A+	A+	A+	A+	A+	A+	A++	A+
Pdesignh	°	kW	7,00	9,00	11,00	13,00	14,00	16,00	26,00	32,00
	A,P	kW	7,00	9,00	11,00	13,00	14,00	15,00	25,00	30,00
SCOP	°	W/W	3,38	3,40	3,50	3,48	3,60	3,40	3,90	3,90
	A,P	W/W	3,45	3,50	3,58	3,53	3,65	3,45	3,83	3,70
ηsh	°	%	132,00	133,00	137,00	136,00	141,00	133,00	153,00	153,00
	A,P	%	135,00	137,00	140,00	138,00	143,00	135,00	150,00	145,00
Water Regulation (1)	°;A,P	type	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			020	030	040	045	050	085	100	150
Power supply: M										
Electric data										
Maximum current (FLA)	°	A	14,0	19,0	22,0	25,0	-	-	-	-
	A	A	14,6	20,1	22,9	26,3	-	-	-	-
	P	A	14,6	20,1	22,9	26,3	-	-	-	-
Peak current (LRA)	°;P	A	-	-	-	-	-	-	-	-
	A	A	-	-	-	-	-	-	-	-
Peak current with Soft-start	°	A	45,0	45,0	45,0	45,0	-	-	-	-
	A	A	45,7	45,7	45,7	46,3	-	-	-	-
	P	A	45,7	45,7	45,7	46,3	-	-	-	-
Size			020	030	040	045	050	085	100	150
Power supply: °										
Electric data										
Maximum current (FLA)	°	A	6,0	8,0	9,0	11,0	12,0	12,0	22,0	26,0
	A,P	A	6,8	8,4	9,8	11,9	13,1	13,6	23,6	28,9
Peak current (LRA)	°	A	40,0	40,0	54,0	61,0	71,0	91,0	73,0	105,0
	A,P	A	40,4	41,0	55,0	62,6	72,6	92,6	74,6	107,8
Peak current with Soft-start	°;A,P	A	-	-	-	-	-	-	-	-

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			020	030	040	045	050	085	100	150
Power supply: °										
Compressor										
Type	°A,P	type					Scroll			
Compressor regulation	°A,P	Type					On-Off			
Number	°A,P	no.	1	1	1	1	1	1	2	2
Circuits	°A,P	no.	1	1	1	1	1	1	1	1
Refrigerant	°A,P	type					R410A			
Total refrigerant charge (1)	°A,P	kg	2,87	4,32	4,32	5,55	5,96	6,00	12,00	12,60
Potential global heating (GWP)	°A,P						2088			
Equivalent CO ₂	°A,P	tCO ₂ eq	5,99	9,02	9,02	11,59	5,96	6,00	12,00	12,60

(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			020	030	040	045	050	085	100	150
System side heat exchanger										
Type	°A,P	type					Brazed plate			
Number	°A,P	no.	1	1	1	1	1	1	1	1
Hydraulic connections										
Connections (in/out)	°A,P	Type					Gas - F			
Size (in)	°A,P	Ø					1"¼			
Size (out)	°A,P	Ø					1"¼			

Fans

Size			020	030	040	045	050	085	100	150
Fan										
Type	°A,P	type					Axial			
Fan motor	°A,P	type	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Asynchronous	Asynchronous
Number	°A,P	no.	1	1	2	2	2	2	2	2
Air flow rate	°A,P	m³/h	3.500	8.000	8.000	7.500	7.500	7.500	14.500	14.500

Sound data

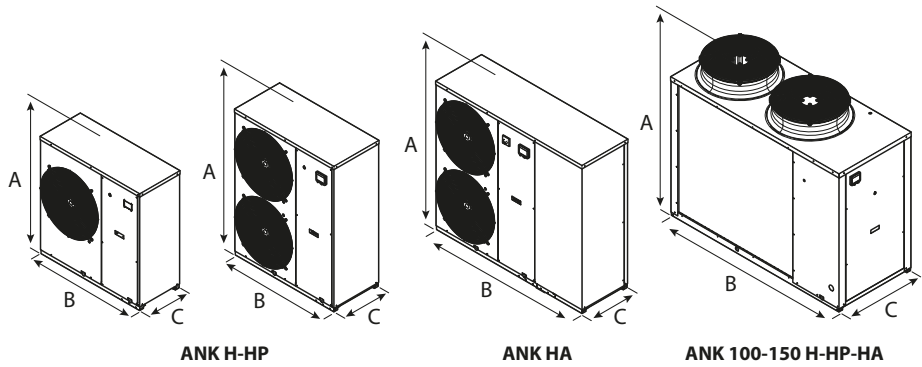
Size			020	030	040	045	050	085	100	150
Power supply: M										
Sound data calculated in cooling mode (1)										
Sound power level	°A,P	dB(A)	68,0	70,5	70,5	70,5	-	-	-	-

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

Size			020	030	040	045	050	085	100	150
Power supply: °										
Sound data calculated in cooling mode (1)										
Sound power level	°A,P	dB(A)	68,0	70,5	70,5	70,5	70,5	70,5	77,0	78,0

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



Size			020	030	040	045	050	085	100	150
Dimensions and weights										
A	°A,P	mm	1.028	1.281	1.281	1.281	1.281	1.281	1.450	1.450
	°P	mm	1.000	1.000	1.000	1.000	1.000	1.000	1.750	1.750
B	A	mm	1.358	1.450	1.450	1.450	1.450	1.450	1.750	1.750
	°A,P	mm	400	400	450	450	450	450	750	750
C	°	kg	118	149	152	165	172	174	296	341
	A	kg	160	211	214	232	238	241	364	412
	P	kq	123	154	157	175	182	184	314	362
Empty weight										

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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