

NLC 0280H-1250H

Reversible air/water heat pump

Cooling capacity 53 ÷ 322 kW – Heating capacity 55 ÷ 342 kW

- High efficiency also at partial loads
- Complete air flow versatility
- EC fan Plug-fan with high performance



DESCRIPTION

Reversible heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

Indoor units with Scroll compressors, centrifugal fans and plate heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

- A High efficiency
- E Silenced high efficiency

FEATURES

Operating field

Work up to 44°C of outdoor air temperature at full load, depending on size and version. For further details refer to the selection software / technical documentation.

Units mono or dual-circuit

The range includes units with 2 compressors in single circuit and units with 4 compressors divided into two independent circuits.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

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.

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.

CONTROL PCO₅

Microprocessor control, with keyboard and LCD display, for easy access on the unit with a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervising systems with MODBUS protocol. 1 accessory is provided for each unit control board.

AERBAC-ONE: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols, HTTPS protocol for web interface, encrypted communication protocols and access credential management in accordance with the latest standards. One accessory is provided for each unit control board.

AERBACP: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols. 1 accessory is provided for each unit control board.

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.

AERNET: The device remotely controls, manages and remotely monitors a chiller/heat pump using a PC, smartphone or tablet via a Cloud connection. AERNET acts as Master while each connected unit is configured as Slave up to a maximum of 6 control cards. The connection is made via cable and/or USB key. Wi-Fi connectivity is not available. It is also possible to save a log file with all the data from the connected units to your terminal with a simple click for possible post-analysis. With the purchase of the Router, the Customer benefits from a 24-month free period during which he can use the Aernet Service at no additional cost. At the end of this initial period, the Service may be renewed by subscribing to a 1, 2 or 3 year subscription. For further

details on costs and renewal methods, please contact our office or consult the technical documentation available on our website. www.aermec.com.

FL: Flow switch.

MULTICHILLER-EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel (max. no. 9), always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

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.

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.

■ *The accessory PR4 should only be combined with the RS485 communication interface when the serial port is occupied by another device.*

FLG: Flange for ducts.

FILW: Water filter

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

KRB: Electric anti-freeze resistance kit for base.

KRQ: Electric heater for the control and electric power board.

KRA: Anti-freeze electric heater for the buffer tank.

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time.

COMPATIBILITY WITH VMF SYSTEM

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

ACCESSORIES COMPATIBILITY

Model	Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
AER485P1	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERBAC-ONE	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERBACP	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERLINK	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERNET	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
FL	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER-EVO	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PGD1	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SGD	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Remote panel

Model	Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
PR4	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

The accessory PR4 should only be combined with the RS485 communication interface when the serial port is occupied by another device.

Water filter

Ver	0280	0300	0330	0350	0550	0600	0650	0675
A, E	FILTRO W DN50 (1)	FILTRO W DN50 (1)	FILTRO W DN50 (1)	FILTRO W DN50 (1)	FILTRO W DN65 (1)	FILTRO W DN65 (1)	FILTRO W DN65 (1)	FILTRO W DN65 (1)

(1) Installation is mandatory, contrarily guarantee becomes void.

Ver	0700	0750	0800	0900	1000	1100	1250
A, E	FILTRO W DN80 (1)	FILTRO W DN80 (1)	FILTRO W DN80 (1)	FILTRO W DN80 (1)	FILTRO W DN80 (1)	FILTRO W DN80 (1)	FILTRO W DN80 (1)

(1) Installation is mandatory, contrarily guarantee becomes void.

Flange for ducts

Ver	0280	0300	0330	0350	0550	0600	0650	0675
A, E	FLG1	FLG1	FLG1	FLG1	FLG2 x 2 (1)	FLG2 x 2 (1)	FLG2 x 2 (1)	FLG2 x 2 (1)

(1) x... indicates the quantity to buy.

Ver	0700	0750	0800	0900	1000	1100	1250
A, E	FLG1 x 2 (1)	FLG1 + FLG2 x 2 (1)	FLG2 x 4 (1)	FLG2 x 4 (1)	FLG2 x 4 (1)	FLG2 x 4 (1)	FLG2 x 4 (1)

(1) x... indicates the quantity to buy.

Antivibration

Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Integrated hydronic kit: 00															
A, E	VT17	VT17	VT17	VT17	-	-	-	-	-	-	-	-	-	-	-
Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08															
A, E	VT11	VT11	VT11	VT11	-	-	-	-	-	-	-	-	-	-	-
Integrated hydronic kit: P1, P2, P3, P4, P5, P6, P7, P8															
A, E	VT13	VT13	VT13	VT13	-	-	-	-	-	-	-	-	-	-	-

The accessory cannot be fitted on the configurations indicated with -

Antivibration

Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Integrated hydronic kit: 00															
A, E	-	-	-	-	AVX410	AVX410	AVX410	AVX410	AVX410	AVX416	AVX418	AVX418	AVX420	AVX420	AVX420
Integrated hydronic kit: 01, 02, 03, 04															
A, E	-	-	-	-	AVX412	AVX412	AVX412	AVX412	AVX415	AVX417	AVX419	AVX419	AVX419	AVX419	AVX419
Integrated hydronic kit: 05, 06, 07, 08															
A	-	-	-	-	AVX423	AVX412	AVX412	AVX412	AVX415	AVX417	AVX419	AVX419	AVX419	AVX419	AVX419
E	-	-	-	-	AVX412	AVX412	AVX412	AVX412	AVX415	AVX417	AVX419	AVX419	AVX419	AVX419	AVX419
Integrated hydronic kit: P1, P3, P5, P7															
A, E	-	-	-	-	AVX410	AVX410	AVX410	AVX410	AVX413	AVX416	AVX418	AVX418	AVX420	AVX420	AVX420

Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Integrated hydronic kit: P2, P4, P6, P8															
A, E	-	-	-	-	AVX411	AVX411	AVX411	AVX411	AVX414	AVX416	AVX418	AVX418	AVX420	AVX420	AVX420

The accessory cannot be fitted on the configurations indicated with -

DRE: Device for peak current reduction

Ver	0280	0300	0330	0350	0550	0600	0650	0675
A, E	DRE275 (1)	DRE275 (1)	DRE300 (1)	DRE350 (1)	DRE552 (1)	DRE602 (1)	DRE652 (1)	DRE675 (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

Ver	0700	0750	0800	0900	1000	1100	1250
A, E	DRE350 x 2	DRE552 x 2	DRE552 x 2	DRE602 x 2	DRE652 x 2	DRE675 x 2	DRE1250 (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

Power factor correction

Ver	0280	0300	0330	0350	0550	0600	0650	0675
A, E	RIFNLC1	RIFNLC1	RIFNLC2	RIFNLC3	RIFNLC1	RIFNLC1	RIFNLC1	RIFNLC4

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

Ver	0700	0750	0800	0900	1000	1100	1250
A, E	RIFNLC3 x 2 (1)	RIFNLC3 + RIFNLC2 (1)	RIFNLC1 x 2 (1)	RIFNLC1 x 2 (1)	RIFNLC1 x 2 (1)	RIFNLC4 x 2 (1)	RIFNLC3 x 2 (1)

(1) x... indicates the quantity to buy.

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

Anti-condensate electric board resistance

Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
A, E	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ	KRQ

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

Anti-freeze electric heater for the storage tank

Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
A, E	KRA1	KRA1	KRA1	KRA1	KRA2	KRA2	KRA2	KRA2	KRA2	KRA2	KRA2	KRA2	KRA2	KRA2	KRA2

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

Electric heater for the base

Ver	0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
A, E	KRB21 (1)	KRB21 (1)	KRB21 (1)	KRB21 (1)	KRB22 (1)	KRB22 (1)	KRB22 (1)	KRB22 (1)	KRB23 (1)	KRB24 (1)	KRB25 (1)	KRB25 (1)	KRB25 (1)	KRB25 (1)	KRB25 (1)

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

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

CONFIGURATOR

Field	Description
1,2,3	NLC
	Size
4,5,6,7	0280, 0300, 0330, 0350, 0550, 0600, 0650, 0675, 0700, 0750, 0800, 0900, 1000, 1100, 1250
8	Operating field (1)
X	Electronic thermostatic expansion valve
°	Standard mechanic thermostatic valve
9	Model
H	Heat pump
10	Heat recovery
D	With desuperheater (2)
°	Without heat recovery
11	Version
A	High efficiency
E	Silenced high efficiency
12	Coils
R	Copper pipes-copper fins
None	None
V	Copper pieps-Coated aluminium fins
°	Copper-aluminium
13	Fans
J	Inverter
14	Power supply
°	400V ~ 3 50Hz with magnet circuit breakers
15,16	Integrated hydronic kit

Field	Description
00	Without hydronic kit
	Kit with storage tank and pump/s
01	Storage tank with low head pump
02	Storage tank with low head pump + stand-by pump
03	Storage tank with high head pump
04	Storage tank with high head pump + stand-by pump
	Kit with storage tank and inverter pump/s
05	Storage tank with low-head inverter pump
06	Storage tank with low head inverter pump + stand-by pump
07	Storage tank with high head inverter pump
08	Storage tank with high head inverter pump + stand-by pump
	Kit with pump/s
P1	Single pump low head
P2	Pump low head + stand-by pump
P3	Single pump high head
P4	Pump high head + stand-by pump
	Kit with pump/s, with inverter speed
P5	Single low head pump + fixed speed inverter (3)
P6	Single low head pump with fixed speed inverter + stand-by pump (3)
P7	Single high head pump + fixed speed inverter (3)
P8	Single high head pump with fixed speed inverter + stand-by pump (3)

(1) Water produced from 4 °C ÷ 18 °C

(2) The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.

(3) The speed of the inverter pump must be set upon commissioning, according to the useful static pressure required; once it has been set, the pump will work at a constant flow rate.

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

Cooling mode

NLC - HA

Size		0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Fans: J																
Cooling performance 12 °C/ 7 °C (1)																
Cooling capacity	kW	54,4	60,4	66,7	78,6	102,5	115,3	126,0	143,4	158,1	181,1	202,0	232,5	252,7	287,1	316,5
Input power	kW	20,0	22,5	24,4	28,6	37,7	43,4	46,9	54,6	57,4	66,3	74,7	87,1	93,6	108,9	127,4
Cooling total input current	A	36,40	40,90	45,30	56,40	68,00	77,10	80,60	95,70	112,10	121,00	136,30	154,50	161,70	192,20	219,40
EER	W/W	2,72	2,69	2,73	2,75	2,72	2,66	2,69	2,63	2,75	2,73	2,70	2,67	2,70	2,64	2,48
Water flow rate system side	l/h	9.368	10.396	11.480	13.535	17.638	19.855	21.700	24.691	27.213	31.158	34.751	40.001	43.480	49.382	54.436
Pressure drop system side	kPa	21	25	23	30	24	29	35	35	26	25	34	34	36	38	44

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

NLC - HE

Size		0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Fans: J																
Cooling performance 12 °C/ 7 °C (1)																
Cooling capacity	kW	52,1	58,2	63,5	75,0	97,8	110,6	118,5	136,8	150,2	172,1	192,7	223,8	242,2	273,7	305,0
Input power	kW	20,4	23,0	25,5	29,4	40,1	46,0	49,1	56,5	58,8	67,2	79,8	90,2	97,1	112,6	128,0
Cooling total input current	A	36,30	39,70	45,10	55,30	69,30	76,80	82,70	95,10	110,70	121,00	138,60	153,40	165,70	190,80	218,30
EER	W/W	2,55	2,53	2,49	2,55	2,44	2,40	2,41	2,42	2,55	2,56	2,42	2,48	2,49	2,43	2,38
Water flow rate system side	l/h	8.967	10.021	10.934	12.905	16.829	19.040	20.401	23.542	25.847	29.620	33.162	38.500	41.662	47.091	52.474
Pressure drop system side	kPa	20	24	20	27	20	25	29	30	24	25	33	35	38	42	53

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

Heating mode range

NLC HA-HE

Size		0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Heating performance 40 °C/ 45 °C (1)																
Heating capacity	A,E kW	56,4	63,5	70,7	82,6	109,8	122,4	137,1	156,5	168,5	193,6	218,3	244,7	273,4	312,4	348,1
Input power	A,E kW	19,1	21,9	24,0	27,8	37,0	41,5	46,4	53,7	55,9	65,1	73,6	82,9	91,5	105,2	118,1
Heating total input current	A,E A	36,00	40,00	44,00	54,00	65,00	74,00	78,00	91,00	105,00	114,00	129,00	145,00	153,00	179,00	199,00
COP	A,E W/W	2,95	2,90	2,95	2,97	2,97	2,95	2,95	2,91	3,01	2,97	2,97	2,95	2,99	2,97	2,95
Water flow rate system side	A,E l/h	9.781	11.023	12.266	14.321	19.050	21.235	23.760	27.154	29.225	33.591	37.889	42.470	47.456	54.236	60.425
Pressure drop system side	A,E kPa	22	27	25	32	27	32	40	41	29	28	38	37	41	43	52

(1) 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

Cooling mode

NLC HA

Size		0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Cooling performance 23 °C/ 18 °C (1)																
Cooling capacity	kW	68,8	76,3	84,3	99,3	129,5	145,8	159,3	181,3	199,9	228,9	255,3	293,9	319,5	362,9	400,0
Input power	kW	24,3	27,1	29,6	34,7	45,9	52,5	57,0	65,9	69,6	80,6	90,7	105,3	113,7	131,4	154,5
Cooling total input current	A	44,00	49,00	54,00	67,00	81,00	92,00	97,00	114,00	134,00	145,00	163,00	184,00	194,00	229,00	263,00
EER	W/W	2,83	2,81	2,84	2,87	2,82	2,78	2,80	2,75	2,87	2,84	2,82	2,79	2,81	2,76	2,59
Water flow rate system side	l/h	11.887	13.192	14.567	17.175	22.381	25.195	27.536	31.330	34.531	39.537	44.096	50.758	55.172	62.661	69.075
Pressure drop system side	kPa	34	40	36	49	39	47	56	57	42	41	54	55	58	61	71

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

NLC HE

Size		0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Cooling performance 23 °C/ 18 °C (1)																
Cooling capacity	kW	65,8	73,5	80,3	94,7	123,6	139,8	149,8	172,9	189,9	217,6	243,6	282,9	306,1	346,0	385,5
Input power	kW	25,1	28,2	31,4	36,1	49,2	56,4	60,3	69,2	72,1	82,4	97,8	110,5	119,2	137,9	156,5
Cooling total input current	A	44,00	48,00	55,00	67,00	84,00	93,00	101,00	115,00	134,00	147,00	168,00	186,00	201,00	231,00	264,00
EER	W/W	2,63	2,61	2,56	2,62	2,51	2,48	2,48	2,50	2,63	2,64	2,49	2,56	2,57	2,51	2,46
Water flow rate system side	l/h	11.378	12.716	13.875	16.375	21.355	24.160	25.887	29.873	32.797	37.585	42.080	48.853	52.866	59.755	66.586
Pressure drop system side	kPa	32	38	33	44	32	39	47	48	38	41	53	57	61	68	85

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

Heating mode range

NLC HA-HE

Size			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Heating performance 30 °C / 35 °C (1)																	
Heating capacity	A,E	kW	56,7	63,9	71,1	83,1	110,5	123,2	137,9	157,5	169,5	194,8	219,7	246,2	275,1	314,3	350,2
Input power	A,E	kW	15,6	18,0	19,6	22,8	30,1	34,0	37,8	44,1	45,7	52,9	60,0	68,0	74,5	86,5	96,8
Heating total input current	A	A	29,00	33,00	37,00	45,00	54,00	61,00	64,00	76,00	87,00	93,00	107,00	120,00	126,00	149,00	164,00
	E	A	28,00	32,00	35,00	43,00	52,00	58,00	62,00	72,00	83,00	90,00	102,00	114,00	120,00	141,00	156,00
COP	A,E	W/W	3,64	3,56	3,64	3,64	3,67	3,62	3,64	3,57	3,71	3,68	3,66	3,62	3,69	3,63	3,62
Water flow rate system side	A,E	l/h	9.805	11.050	12.297	14.356	19.097	21.287	23.819	27.220	29.297	33.673	37.982	42.575	47.573	54.370	60.573
Pressure drop system side	A,E	kPa	22	27	25	32	27	32	40	41	29	28	38	37	41	44	52

(1) 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			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Fans: J																	
SEER - 12/7 (EN14825: 2018)																	
SEER	A	W/W	4,48	4,50	4,52	4,71	4,89	4,74	4,65	4,52	4,38	4,33	4,51	4,47	4,36	4,29	4,08
	E	W/W	4,16	4,16	4,08	4,50	4,29	4,23	4,29	4,22	4,20	4,14	3,98	4,21	4,13	3,99	3,86
Seasonal efficiency	A	%	176,10	177,10	177,80	185,20	192,50	186,40	183,10	177,70	172,20	170,30	177,50	175,80	171,40	168,70	160,00
	E	%	163,20	163,50	160,30	177,10	168,50	166,00	168,40	165,90	165,00	162,60	156,20	165,30	162,20	156,40	151,40
Water Regulation (1)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	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,E		A+	A+	A+	-	-	-	-	-	-	-	-	-	-	-	-
Pdesignh	A,E	kW	52,00	59,00	66,00	77,00	102,00	114,00	127,00	146,00	157,00	180,00	203,00	228,00	254,00	291,00	324,00
SCOP	A,E	W/W	3,28	3,20	3,28	3,30	3,30	3,28	3,33	3,25	3,35	3,35	3,33	3,28	3,35	3,30	3,33
ηsh	A,E	%	128,00	125,00	128,00	129,00	129,00	128,00	130,00	127,00	131,00	131,00	130,00	128,00	131,00	129,00	130,00
Water Regulation (1)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	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			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Electric data																	
Maximum current (FLA)	A,E	A	52,2	55,6	62,0	71,4	103,0	110,9	118,8	131,8	142,8	167,1	206,0	221,8	237,6	263,6	289,6
Peak current (LRA)	A,E	A	127,9	129,6	132,8	215,4	272,9	272,9	280,8	357,8	286,8	355,6	375,9	383,8	399,6	489,6	515,6

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Fans: J																	
Compressor																	
Type	A,E	type	Scroll														
Compressor regulation	A,E	Type	On-Off														
Number	A,E	no.	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4
Circuits	A,E	no.	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Refrigerant	A,E	type	R410A														
Total refrigerant charge (1)	A,E	kg	9,20	9,50	11,00	11,00	18,50	20,00	25,00	25,00	23,00	32,00	42,00	42,00	50,00	50,00	50,00
Potential global heating (GWP)	A,E		2088														
Equivalent CO ₂	A,E	tCO ₂ eq	19,21	19,84	22,97	22,97	38,63	41,76	52,20	52,20	48,02	66,82	87,70	87,70	104,40	104,40	104,40

(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			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Fans: J																	
System side heat exchanger																	
Type	A,E	type	Braze plate														
Number	A,E	no.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hydraulic connections																	
Connections (in/out)	A,E	Type	Grooved joints														
Sizes (in/out)	A,E	Ø	2"	2"	2"	2"	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"

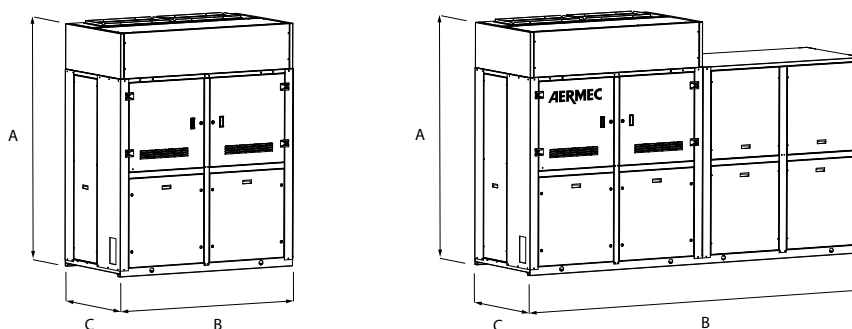
Fans

Size			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Fans: J																	
Fan																	
Type	A,E	type	Plug-fun														
Fan motor	A,E	type	EC Inverter motors														
Number	A,E	no.	2	2	2	2	4	4	4	4	4	6	8	8	8	8	8
Air flow rate	A	m ³ /h	23.000	26.500	25.000	27.500	42.000	47.000	44.000	50.000	53.000	64.500	84.000	94.000	88.400	102.000	102.000
	E	m ³ /h	17.000	19.800	17.200	20.600	30.000	35.000	31.400	38.200	41.000	48.900	60.000	70.800	64.000	77.600	88.000
High static pressure	A,E	Pa	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120

Sound data

Size			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Fans: J																	
Machine exhaust																	
Sound power level	A	dB(A)	84,1	87,9	86,3	88,9	85,2	87,9	86,4	89,5	91,9	86,7	88,2	90,9	89,4	92,5	92,5
	E	dB(A)	77,3	80,5	77,6	81,5	78,5	81,3	79,4	83,2	84,5	79,4	81,5	84,3	82,4	86,2	86,2
Intake plus machine body																	
Sound power level	A	dB(A)	78,9	81,7	80,6	83,1	83,9	85,1	84,4	85,7	85,3	86,0	87,2	88,2	87,2	88,9	89,3
	E	dB(A)	75,1	78,0	76,0	79,7	82,3	82,8	82,3	84,1	82,7	85,3	85,3	85,8	85,3	87,1	88,2

DIMENSIONS



Size			0280	0300	0330	0350	0550	0600	0650	0675	0700	0750	0800	0900	1000	1100	1250
Dimensions and weights																	
A	A,E	mm	2.154	2.154	2.154	2.154	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196
B	A,E	mm	1.750	1.750	1.750	1.750	3.150	3.150	3.150	3.150	3.500	4.900	6.300	6.300	6.300	6.300	6.300
C	A,E	mm	950	950	950	950	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Empty weight	A,E	kg	790	790	828	832	1.452	1.456	1.492	1.507	1.586	2.194	2.768	2.783	2.863	2.889	2.903
Dimensions and weights with pump/s																	
A	A,E	mm	2.154	2.154	2.154	2.154	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196
B	A,E	mm	2.500	2.500	2.500	2.500	3.150	3.150	3.150	3.150	4.250	4.900	6.300	6.300	6.300	6.300	6.300
C	A,E	mm	950	950	950	950	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Dimensions and weights with storage tank and pump/s																	
A	A,E	mm	2.154	2.154	2.154	2.154	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196
B	A,E	mm	3.400	3.400	3.400	3.400	4.150	4.150	4.150	4.150	5.250	5.900	7.300	7.300	7.300	7.300	7.300
C	A,E	mm	950	950	950	950	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100

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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