

NRP 0200-0750

Air-water multipurpose

Cooling capacity 43 ÷ 185 kW

Heating capacity 46 ÷ 205 kW

- High efficiency also at partial loads
- Units designed for 2 or 4-pipe systems
- Simultaneous and independent production of hot and chilled water
- Compact dimensions



DESCRIPTION

Multipurpose external units designed for 2 or 4-pipe systems. With just one unit simultaneous and independent requests for hot and chilled water can be accommodated all year round.

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

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 55 °C (for more details refer to the selection software and technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Option integrated hydronic kit

To obtain a solution that offers economic savings and easy installation, these units can be configured with an integrated hydronic kit on both the service side and the recovery side.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

CONTROL PCO⁵

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

- Possibility to control two units in a Master-Slave configuration
- 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.
- **Night mode:** only in the **non-silenced** versions is it possible to set a silenced operating mode, which is useful for example at night for greater acoustic comfort but always guarantees performance even at peak load times.

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.

AERNET: The device remotely controls, manages and remotely monitors a chiller/heat pump using a PC, smartphone or table 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.

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.

GP: Anti-intrusion grid.

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.

ACCESSORIES COMPATIBILITY

Model	Ver	0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
AER485P1	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
AERBAC-ONE	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
AERBACP	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
AERNET	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER-EVO	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
PGD1	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
SGD	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*

Anti-intrusion grid

Ver	0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
A	-	-	-	-	-	-	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 3 (1)	GP10 x 3 (1)
E	GP3	GP3	GP3	GP4	GP4	GP4	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 3 (1)	GP10 x 3 (1)

(1) x _ indicates the quantity to buy

Antivibration

Version	System side - pumps	Recovery side - pumps	0200	0240	0280
A	00	00, R1, R2, R3, R4	-	-	-
A	01, 02, 03, 04, 05, 06, 07, 08	00	-	-	-
A	P1, P2, P3, P4	00, R1, R2, R3, R4	-	-	-
E	00, P1, P2, P3, P4	00, R1, R2, R3, R4	VT17	VT17	VT17
E	01, 02, 03, 04, 05, 06, 07, 08	00	VT13	VT13	VT13
Version	System side - pumps	Recovery side - pumps	0300	0330	0350
A	00	00, R1, R2, R3, R4	-	-	-
A	01, 02, 03, 04, 05, 06, 07, 08	00	-	-	-
A	P1, P2, P3, P4	00, R1, R2, R3, R4	-	-	-
E	00, P1, P2, P3, P4	00, R1, R2, R3, R4	VT17	VT17	VT17
E	01, 02, 03, 04, 05, 06, 07, 08	00	VT13	VT13	VT13
Version	System side - pumps	Recovery side - pumps	0500	0550	0600
A	00	00, R1, R2, R3, R4	VT11	VT11	VT11
A	01, 02, 03, 04, 05, 06, 07, 08	00	VT11	VT11	VT11
A	P1, P2, P3, P4	00, R1, R2, R3, R4	VT11	VT11	VT11
E	00	00, R1, R2, R3, R4	VT11	VT11	VT11
E	01, 02, 03, 04, 05, 06, 07, 08	00	VT11	VT11	VT11
E	P1, P2, P3, P4	00, R1, R2, R3, R4	VT11	VT11	VT11
Version	System side - pumps	Recovery side - pumps	0650	0700	0750
A	00	00, R1, R2, R3, R4	VT11	VT22	VT23
A	01, 02, 03, 04, 05, 06, 07, 08	00	VT11	VT22	VT23
A	P1, P2, P3, P4	00, R1, R2, R3, R4	VT11	VT22	VT23
E	00	00, R1, R2, R3, R4	VT11	VT22	VT23
E	01, 02, 03, 04, 05, 06, 07, 08	00	VT11	VT22	VT23
E	P1, P2, P3, P4	00, R1, R2, R3, R4	VT11	VT22	VT23

- not available

Device for peak current reduction

Ver	0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Power supply: °												
A	-	-	-	-	-	-	DRE501 (1)	DRE551 (1)	DRE601 (1)	DRE651 (1)	DRE701 (1)	DRE751 (1)
E	DRE281 (1)	DRE281 (1)	DRE281 (1)	DRE301 (1)	DRE331 (1)	DRE351 (1)	DRE501 (1)	DRE551 (1)	DRE601 (1)	DRE651 (1)	DRE701 (1)	DRE751 (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	0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
A	-	-	-	-	-	-	RIF52	RIF52	RIF53	RIF53	RIF53	RIF53
E	RIF54	RIF54	RIF50	RIF50	RIF50	RIF51	RIF52	RIF52	RIF53	RIF53	RIF53	RIF53

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

CONFIGURATOR

Field	Description
1,2,3	NRP
4,5,6,7	Size 0200, 0240, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700, 0750
8	Version
A	High efficiency
E	Silenced high efficiency (1)
9	System type
2	2-pipe system
4	4-pipe system
10	Coils
R	Copper pipes-copper fins
V	Copper pieps-Coated aluminium fins
°	Copper-aluminium
11	Fans
J	Inverter (2)
M	Oversized (3)
°	Standard (4)
12	Power supply
1	220V ~ 3 50Hz with magnet circuit breakers (5)
°	400V ~ 3N 50Hz with magnet circuit breakers
13,14	System side - pumps
00	Without hydronic kit
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
05	Storage tank with holes for heaters and single low head pump (6)
06	Storage tank with holes for heaters and pump low head + stand-by pump (6)
07	Storage tank with holes for heaters and single high head pump (6)
08	Storage tank with holes for heaters and pump high head + stand-by pump (6)
P1	Single pump low head
P2	Pump low head + stand-by pump
P3	Single pump high head
P4	Pump high head + stand-by pump
15,16	Recovery side - pumps
00	Without hydronic kit
R1	Single pump low head
R2	Pump low head + stand-by pump
R3	Single pump high head
R4	Pump high head + stand-by pump

(1) The size up 0200 to 0350 are only available in the silenced versions (E)

(2) Standard for size from 0200 to 0350 without useful static pressure, option for other sizes

(3) Available only for size from 0200 to 0350

(4) As standard in sizes from 0500 to 0750

(5) Not available for size 0750

(6) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS

NRP - 2-pipe system version A

Size		0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Cooling system side 2-pipe system (1)													
Cooling capacity	kW	-	-	-	-	-	-	99,8	103,7	123,7	140,7	159,7	184,6
Input power	kW	-	-	-	-	-	-	32,4	36,0	44,1	50,5	55,2	64,6
Cooling total input current	A	-	-	-	-	-	-	55,00	59,00	72,00	82,00	88,00	113,00
EER	W/W	-	-	-	-	-	-	3,08	2,89	2,80	2,79	2,89	2,86
Water flow rate system side	l/h	-	-	-	-	-	-	17.181	17.868	21.305	24.225	27.490	31.785
Pressure drop system side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
2-pipe system side heating (A7°C/W40-45°C) (2)													
Heating capacity	kW	-	-	-	-	-	-	106,3	112,3	137,3	152,3	173,3	205,4
Input power	kW	-	-	-	-	-	-	32,6	35,1	41,3	45,8	53,8	62,8
Heating total input current	A	-	-	-	-	-	-	55,00	59,00	72,00	82,00	88,00	113,00
COP	W/W	-	-	-	-	-	-	3,26	3,20	3,33	3,33	3,22	3,27
Water flow rate system side	l/h	-	-	-	-	-	-	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop system side	kPa	-	-	-	-	-	-	43	46	46	57	67	84
2-pipe sanitary side heating (A7°C/W40-45°C) (3)													
Heating capacity	kW	-	-	-	-	-	-	106,2	112,2	137,3	152,3	173,4	205,3
Input power	kW	-	-	-	-	-	-	32,5	34,9	41,3	45,7	53,5	62,3
Heating total input current	A	-	-	-	-	-	-	55,00	59,00	72,00	82,00	88,00	113,00
COP	W/W	-	-	-	-	-	-	3,27	3,21	3,32	3,34	3,24	3,29
Water flow rate domestic hot water side	l/h	-	-	-	-	-	-	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop domestic hot water side	kPa	-	-	-	-	-	-	30	34	51	48	35	49
Simultaneous operation (heating + cooling), 2 pipes (W*-45°C / W*-7°C) (4)													
Cooling capacity	kW	-	-	-	-	-	-	103,3	111,3	133,8	148,5	169,2	202,7
Recovered heating power	kW	-	-	-	-	-	-	132,2	142,2	174,3	193,3	218,4	261,3
Input power	kW	-	-	-	-	-	-	30,8	32,9	43,2	48,0	52,5	63,0
Water flow rate system side	l/h	-	-	-	-	-	-	17.181	17.868	21.305	24.225	27.490	31.785
Pressure drop system side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
Water flow rate domestic hot water side	l/h	-	-	-	-	-	-	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop domestic hot water side	kPa	-	-	-	-	-	-	30	34	51	48	35	49
TER	W/W	-	-	-	-	-	-	7,65	7,71	7,13	7,13	7,38	7,36

(1) Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified

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

(3) Water exchanger to the total recovery side 40 °C / 45 °C;

(4) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

NRP - 2-pipe system version E

Size		0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Cooling system side 2-pipe system (1)													
Cooling capacity	kW	42,9	49,9	55,9	63,9	67,9	79,8	94,8	98,8	115,8	130,7	152,7	178,7
Input power	kW	13,9	16,5	18,9	20,8	23,2	27,0	35,2	38,9	48,3	55,5	61,9	70,6
Cooling total input current	A	28,00	33,00	38,00	41,00	45,00	52,00	60,00	64,00	79,00	91,00	99,00	120,00
EER	W/W	3,08	3,02	2,97	3,07	2,93	2,96	2,70	2,54	2,40	2,35	2,47	2,53
Water flow rate system side	l/h	7.388	8.591	9.621	10.996	11.683	13.745	16.322	17.009	19.930	22.507	26.287	30.754
Pressure drop system side	kPa	26	37	22	29	22	31	34	35	32	41	51	63
2-pipe system side heating (A7°C/W40-45°C) (2)													
Heating capacity	kW	46,1	53,2	60,1	75,2	80,2	84,2	106,3	112,3	137,3	152,3	173,3	205,4
Input power	kW	13,3	15,6	17,7	22,4	23,9	25,6	32,6	35,1	41,3	45,7	53,8	62,8
Heating total input current	A	28,00	33,00	38,00	41,00	45,00	52,00	60,00	64,00	79,00	91,00	99,00	120,00
COP	W/W	3,47	3,42	3,40	3,36	3,36	3,28	3,26	3,20	3,33	3,33	3,22	3,27
Water flow rate system side	l/h	7.995	9.211	10.428	13.035	13.904	14.599	18.423	19.466	23.812	26.417	30.067	35.629
Pressure drop system side	kPa	30	43	26	41	31	35	43	46	46	56	67	85
2-pipe sanitary side heating (A7°C/W40-45°C) (3)													
Heating capacity	kW	46,1	53,1	60,1	75,2	80,2	84,1	106,2	112,2	137,3	152,3	173,4	205,3
Input power	kW	13,2	15,4	17,7	22,3	24,0	25,5	32,5	34,9	41,3	45,7	53,5	62,3
Heating total input current	A	28,00	33,00	38,00	41,00	45,00	52,00	60,00	64,00	79,00	91,00	99,00	120,00
COP	W/W	3,49	3,44	3,40	3,37	3,35	3,30	3,27	3,21	3,32	3,34	3,24	3,29
Water flow rate domestic hot water side	l/h	7.995	9.211	10.428	13.035	13.904	14.599	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop domestic hot water side	kPa	13	17	21	33	38	19	30	34	51	48	35	49
Simultaneous operation (heating + cooling), 2 pipes (W*-45°C / W*-7°C) (4)													
Cooling capacity	kW	45,6	52,4	58,3	68,9	74,0	87,1	103,3	111,4	133,9	148,5	169,2	202,7
Recovered heating power	kW	58,1	67,1	75,1	88,2	95,2	111,1	132,2	142,2	174,3	193,3	218,4	261,3
Input power	kW	13,2	15,5	17,8	20,5	22,5	25,5	30,7	32,8	43,1	47,9	52,5	62,9
Water flow rate system side	l/h	7.388	8.591	9.621	10.996	11.683	13.745	16.322	17.009	19.930	22.507	26.287	30.754
Pressure drop system side	kPa	26	37	22	29	22	31	34	35	32	41	51	63
Water flow rate domestic hot water side	l/h	7.995	9.211	10.428	13.035	13.904	14.599	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop domestic hot water side	kPa	13	17	21	33	38	19	30	34	51	48	35	49
TER	W/W	7,84	7,69	7,49	7,66	7,51	7,78	7,66	7,73	7,14	7,14	7,39	7,37

(1) Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified

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

(3) Water exchanger to the total recovery side 40 °C / 45 °C;

(4) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

NRP - 4-pipe system version A

Size		0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Cooling system side 4-pipe system (1)													
Cooling capacity	kW	-	-	-	-	-	-	99,8	103,7	123,7	140,7	159,7	184,6
Input power	kW	-	-	-	-	-	-	32,4	36,0	44,1	50,5	55,2	64,6
Cooling total input current	A	-	-	-	-	-	-	55,00	59,00	72,00	82,00	88,00	113,00
EER	W/W	-	-	-	-	-	-	3,08	2,89	2,80	2,79	2,89	2,86
Water flow rate system side	l/h	-	-	-	-	-	-	17.181	17.868	21.305	24.225	27.490	31.785
Pressure drop system side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
4-pipe system side heating (A7°C/W40-45°C) (2)													
Heating capacity	kW	-	-	-	-	-	-	106,2	112,2	137,3	152,3	173,4	205,3
Input power	kW	-	-	-	-	-	-	32,5	39,9	41,3	45,7	53,5	62,3
Heating total input current	A	-	-	-	-	-	-	55,00	59,00	72,00	82,00	88,00	113,00
COP	W/W	-	-	-	-	-	-	3,27	3,21	3,32	3,34	3,24	3,29
Water flow rate system side	l/h	-	-	-	-	-	-	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop system side	kPa	-	-	-	-	-	-	30	34	51	48	35	49
Simultaneous operation (heating + cooling), 4 pipes (W*-45 °C / W*-7 °C) (3)													
Cooling capacity	kW	-	-	-	-	-	-	103,3	111,3	133,8	148,5	169,2	202,7
Recovered heating power	kW	-	-	-	-	-	-	132,2	142,2	174,3	193,3	218,4	261,3
Input power	kW	-	-	-	-	-	-	30,8	32,9	43,2	48,0	52,5	63,0
Water flow rate cold side	l/h	-	-	-	-	-	-	17.181	17.868	21.305	24.225	27.490	31.785
Pressure drop cold side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
Water flow rate hot side	l/h	-	-	-	-	-	-	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop hot side	kPa	-	-	-	-	-	-	30	34	51	48	35	49
TER	W/W	-	-	-	-	-	-	7,65	7,71	7,13	7,13	7,38	7,36

(1) Data 14511:2022; System side water heat exchanger 12 °C / 7 °C; External air 35 °C

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

(3) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

NRP - 4-pipe system version E

Size		0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Cooling system side 4-pipe system (1)													
Cooling capacity	kW	42,9	49,9	55,9	63,9	67,9	79,8	94,8	98,8	115,8	130,7	152,7	178,7
Input power	kW	13,9	16,5	18,9	20,8	23,2	27,0	35,2	38,9	48,3	55,5	61,9	70,6
Cooling total input current	A	28,00	33,00	38,00	41,00	45,00	52,00	60,00	64,00	79,00	91,00	99,00	120,00
EER	W/W	3,08	3,02	2,97	3,07	2,93	2,96	2,70	2,54	2,40	2,35	2,47	2,53
Water flow rate system side	l/h	7.388	8.591	9.621	10.996	11.683	13.745	16.322	17.009	19.930	22.507	26.287	30.754
Pressure drop system side	kPa	26	37	22	29	22	31	34	35	32	41	51	63
4-pipe system side heating (A7°C/W40-45°C) (2)													
Heating capacity	kW	46,1	53,1	60,1	75,2	80,2	84,1	106,2	112,2	137,3	152,3	173,4	205,3
Input power	kW	13,2	15,4	17,7	22,3	24,0	25,5	32,5	34,9	41,3	45,7	53,5	62,3
Heating total input current	A	28,00	33,00	38,00	41,00	45,00	52,00	60,00	64,00	79,00	91,00	99,00	120,00
COP	W/W	3,49	3,44	3,40	3,37	3,35	3,30	3,27	3,21	3,32	3,34	3,24	3,29
Water flow rate system side	l/h	7.995	9.211	10.428	13.035	13.904	14.599	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop system side	kPa	13	17	21	33	38	19	30	34	51	48	35	49
Simultaneous operation (heating + cooling), 4 pipes (W*-45 °C / W*-7 °C) (3)													
Cooling capacity	kW	45,6	52,4	58,3	68,9	74,0	87,1	103,3	111,4	133,9	148,5	169,2	202,7
Recovered heating power	kW	58,1	67,1	75,1	88,2	95,2	111,1	132,2	142,2	174,3	193,3	218,4	261,3
Input power	kW	13,2	15,5	17,8	20,5	22,5	25,5	30,7	32,8	43,1	47,9	52,5	62,9
Water flow rate cold side	l/h	7.388	8.591	9.621	10.996	11.683	13.745	16.322	17.009	19.930	22.507	26.287	30.754
Pressure drop cold side	kPa	26	37	22	29	22	31	34	35	32	41	51	63
Water flow rate hot side	l/h	7.995	9.211	10.428	13.035	13.904	14.599	18.423	19.466	23.810	26.417	30.067	35.629
Pressure drop hot side	kPa	13	17	21	33	38	19	30	34	51	48	35	49
TER	W/W	7,84	7,69	7,49	7,66	7,51	7,78	7,66	7,73	7,14	7,14	7,39	7,37

(1) Data 14511:2022; System side water heat exchanger 12 °C / 7 °C; External air 35 °C

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

(3) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

ENERGY DATA

Size			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
SEER - 12/7 (EN14825: 2018)														
SEER	A	W/W	-	-	-	-	-	-	3,62	3,34	3,78	3,83	3,86	3,92
	E	W/W	3,78	3,74	3,77	3,70	3,74	4,00	3,53	3,29	3,67	3,72	3,75	3,76
Seasonal efficiency	A	%	-	-	-	-	-	-	141,60	130,60	148,00	150,10	151,30	153,70
	E	%	148,20	146,50	147,70	145,00	146,50	157,10	138,10	128,50	143,60	145,70	146,90	147,50
Water Regulation (1)	A	type	-	-	-	-	-	-	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
	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
Performance in average ambient conditions (average) - 35 °C (2)														
Pdesignh	A	kW	-	-	-	-	-	-	90,00	95,00	116,00	129,00	147,00	174,00
	E	kW	39,00	45,00	51,00	64,00	68,00	71,00	90,00	95,00	116,00	129,00	147,00	174,00
SCOP	A	W/W	-	-	-	-	-	-	3,53	3,50	3,60	3,68	3,55	3,60
	E	W/W	3,60	3,53	3,55	3,50	3,50	3,43	3,53	3,50	3,70	3,68	3,55	3,60
ηsh	A	%	-	-	-	-	-	-	138,00	137,00	145,00	144,00	139,00	141,00
	E	%	141,00	138,00	139,00	137,00	137,00	134,00	138,00	137,00	145,00	144,00	139,00	141,00
Water Regulation (1)	A	type	-	-	-	-	-	-	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
	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

(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			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Electric data														
Maximum current (FLA)	A	A	-	-	-	-	-	-	76,0	81,0	100,0	112,0	122,0	144,0
	E	A	36,0	41,0	46,0	53,0	58,0	63,0	76,0	81,0	100,0	112,0	122,0	144,0
Peak current (LRA)	A	A	-	-	-	-	-	-	214,0	220,0	232,0	243,0	261,0	320,0
	E	A	119,0	150,0	155,0	184,0	190,0	200,0	214,0	220,0	232,0	243,0	261,0	320,0

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Compressor														
Type	A	type	-	-	-	-	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	E	type	-	-	-	-	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Number	A	no.	-	-	-	-	-	-	3	3	4	4	4	4
	E	no.	2	2	2	2	2	2	3	3	4	4	4	4
Circuits	A	no.	-	-	-	-	-	-	2	2	2	2	2	2
	E	no.	2	2	2	2	2	2	2	2	2	2	2	2
Refrigerant	A,E	type	-	-	-	-	-	-	R410A	R410A	R410A	R410A	R410A	R410A
Total refrigerant charge (1)	A	kg	-	-	-	-	-	-	33,00	33,00	40,00	40,00	48,00	72,00
	E	kg	16,00	16,00	16,00	20,00	20,00	20,00	33,00	33,00	40,00	40,00	48,00	72,00
Potential global heating (GWP)	A,E		-	-	-	-	-	-	2088	2088	2088	2088	2088	2088
Equivalent CO ₂	A	tCO ₂ eq	-	-	-	-	-	-	68,90	68,90	83,52	83,52	100,22	150,34
	E	tCO ₂ eq	33,41	33,41	33,41	41,76	41,76	41,76	68,90	68,90	83,52	83,52	100,22	150,34

(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			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
2-pipe system - System side heat exchanger (hot/cold)														
Type	A,E	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Number	A	no.	-	-	-	-	-	-	1	1	1	1	1	1
	E	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	type	-	-	-	-	-	-	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints
Size (in)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
Size (out)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
4-pipe system - System side heat exchanger (cold side)														
Type	A,E	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Number	A	no.	-	-	-	-	-	-	1	1	1	1	1	1
	E	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	type	-	-	-	-	-	-	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints
Size (in)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
Size (out)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"

Recovery side heat exchanger

Size			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
2-pipe system - Recovery side heat exchanger (domestic hot water)														
Type	A,E	type	Brazed plate											
Number	A	no.	-	-	-	-	-	-	2	2	2	2	2	2
	E	no.	2	2	2	2	2	2	2	2	2	2	2	2
Manifold connection (in/out)	A,E	Type	Grooved joints											
Manifold diameter (in)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
Manifold diameter (out)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
4-pipe system - Recovery side heat exchanger (hot side)														
Type	A,E	type	Brazed plate											
Number	A	no.	-	-	-	-	-	-	2	2	2	2	2	2
	E	no.	2	2	2	2	2	2	2	2	2	2	2	2
Manifold connection (in/out)	A,E	Type	Grooved joints											
Manifold diameter (in)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
Manifold diameter (out)	A	Ø	-	-	-	-	-	-	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
	E	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"

Fans

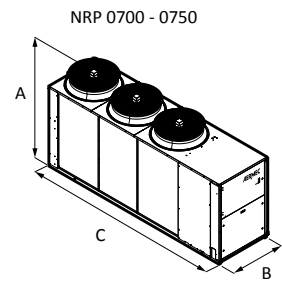
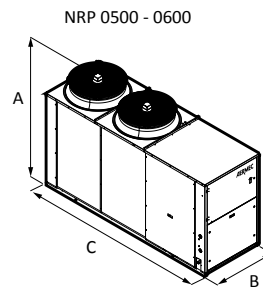
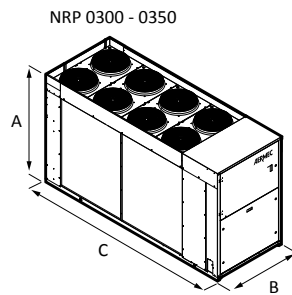
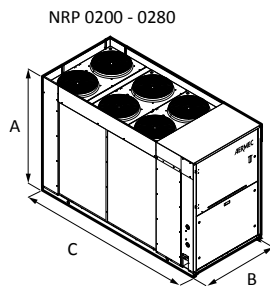
Size			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Fans: °														
Fan														
Type	A,E	type	-	-	-	-	-	-	Axial	Axial	Axial	Axial	Axial	Axial
Number	A,E	no.	-	-	-	-	-	-	2	2	2	2	3	3
	A	m³/h	-	-	-	-	-	-	37.000	37.000	36.500	36.500	58.000	48.000
Air flow rate cooling mode	E	m³/h	-	-	-	-	-	-	20.200	21.100	21.400	22.400	31.900	34.600
	A,E	m³/h	-	-	-	-	-	-	37.000	37.000	36.500	36.500	58.000	48.000
Fans: J														
Fan														
Type	A	type	-	-	-	-	-	-	Axial	Axial	Axial	Axial	Axial	Axial
	E	type	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Number	A	no.	-	-	-	-	-	-	2	2	2	2	3	3
	E	no.	6	6	6	8	8	8	2	2	2	2	3	3
Air flow rate cooling mode	A	m³/h	-	-	-	-	-	-	37.000	37.000	36.500	36.500	58.000	48.000
	E	m³/h	20.000	20.000	20.000	26.000	26.000	26.000	20.200	21.100	21.400	22.400	31.900	34.600
Air flow rate heating mode	A	m³/h	-	-	-	-	-	-	37.000	37.000	36.500	36.500	58.000	48.000
	E	m³/h	20.000	20.000	20.000	26.000	26.000	26.000	37.000	37.000	36.500	36.500	58.000	48.000

Sound data

Size			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Sound data calculated in cooling mode (1)														
Sound power level	A	dB(A)	-	-	-	-	-	-	82,0	82,0	82,0	83,0	85,0	85,0
	E	dB(A)	74,0	74,0	74,0	75,0	75,0	76,0	74,0	74,0	74,0	75,0	77,0	77,0
Sound pressure level (10 m)	A	dB(A)	-	-	-	-	-	-	50,0	50,0	50,0	51,0	53,0	53,0
	E	dB(A)	42,0	42,0	42,0	43,0	43,0	44,0	42,0	42,0	42,0	43,0	45,0	45,0

(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			0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
Dimensions and weights														
A	A	mm	-	-	-	-	-	-	1.875	1.875	1.875	1.875	1.875	1.975
	E	mm	1.606	1.606	1.606	1.606	1.606	1.606	1.875	1.875	1.875	1.875	1.875	1.975
B	A	mm	-	-	-	-	-	-	1.100	1.100	1.100	1.100	1.100	1.500
	E	mm	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.500
C	A	mm	-	-	-	-	-	-	3.342	3.342	3.342	3.342	4.342	4.350
	E	mm	2.700	2.700	2.700	3.200	3.200	3.200	3.342	3.342	3.342	3.342	4.342	4.350
Empty weight	A	kg	-	-	-	-	-	-	1.233	1.237	1.359	1.378	1.591	1.939
	E	kg	788	790	792	862	872	894	1.233	1.237	1.359	1.378	1.591	1.939

■ The weights are for standard units with plate heat exchangers and no hydronic kit.

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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