

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 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 adjustment, with keyboard and LCD display, for easy access on the unit is 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.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

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

GP: Anti-intrusion grid.

VT: Anti-vibration supports.

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

Accessories

Model	Ver	0200	0240	0280	0300	0330	0350	0500	0550	0600	0650	0700	0750
AER485P1	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
AERNET	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER_EVO	A							*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*
PGD1	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

The accessory cannot be fitted on the configurations indicated with -

Antivibration

Version	Integrated hydronic kit, user side	Integrated hydronic kit, recovery side	0200	0240	0280
A	00,01,02,03,04,05,06,07,08,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
E	01,02,03,04,05,06,07,08	R1,R2,R3,R4	-	-	-
Version	Integrated hydronic kit, user side	Integrated hydronic kit, recovery side	0300	0330	0350
A	00,01,02,03,04,05,06,07,08,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
E	01,02,03,04,05,06,07,08	R1,R2,R3,R4	-	-	-
Version	Integrated hydronic kit, user side	Integrated hydronic kit, recovery side	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
A	01,02,03,04,05,06,07,08	R1,R2,R3,R4	-	-	-
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
E	01,02,03,04,05,06,07,08	R1,R2,R3,R4	-	-	-
Version	Integrated hydronic kit, user side	Integrated hydronic kit, recovery side	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
A	01,02,03,04,05,06,07,08	R1,R2,R3,R4	-	-	-
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
E	01,02,03,04,05,06,07,08	R1,R2,R3,R4	-	-	-

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.

The accessory cannot be fitted on the configurations indicated with -

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

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	NRP
4,5,6,7	Size (1) 0200, 0240, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700, 0750
8	Version
A	High efficiency
E	Silenced high efficiency
9	System type
2	2-pipe system
4	4-pipe system
10	Coils
°	Copper-aluminium
R	Copper-copper
S	Copper-Tinned copper
V	Copper-painted aluminium
11	Fans
°	Standard (2)
J	Inverter (3)
M	Oversized (4)
12	Power supply
°	400V ~ 3N 50Hz with magnet circuit breakers
1	220V ~ 3 50Hz with magnet circuit breakers (5)
13,14	Integrated hydronic kit, user side (6)
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
06	Storage tank with holes for heaters and pump low head + stand-by pump
07	Storage tank with holes for heaters and single high head pump
08	Storage tank with holes for heaters and pump high head + stand-by pump
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	Integrated hydronic kit, recovery side
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) As standard in sizes from 0500 to 0750

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

(4) Available only for size from 0200 to 0350

(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 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Cooling system side 2-pipe system (2)													
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	-	-	-	-	-	-	55,0	59,0	72,0	82,0	88,0	113,0
EER	W/W	-	-	-	-	-	-	3,08	2,89	2,80	2,79	2,89	2,86
Water flow rate system side	l/h	-	-	-	-	-	-	17181	17868	21305	24225	27490	31785
Pressure drop system side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
Heating system side 2-pipe system (3)													
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	-	-	-	-	-	-	55,0	59,0	72,0	82,0	88,0	113,0
COP	W/W	-	-	-	-	-	-	3,26	3,20	3,33	3,33	3,22	3,27
Water flow rate system side	l/h	-	-	-	-	-	-	18423	19466	23810	26417	30067	35629
Pressure drop system side	kPa	-	-	-	-	-	-	43	46	46	57	67	84
Heating domestic hot water side 2-pipe system (4)													
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	-	-	-	-	-	-	55,0	59,0	72,0	82,0	88,0	113,0
COP	W/W	-	-	-	-	-	-	3,27	3,21	3,32	3,34	3,24	3,29
Water flow rate domestic hot water side	l/h	-	-	-	-	-	-	18423	19466	23810	26417	30067	35629
Pressure drop domestic hot water side	kPa	-	-	-	-	-	-	30	34	51	48	35	49
Simultaneous operation (heating + cooling), 2 pipes (5)													
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	-	-	-	-	-	-	17181	17868	21305	24225	27490	31785
Pressure drop system side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
Water flow rate domestic hot water side	l/h	-	-	-	-	-	-	18423	19466	23810	26417	30067	35629
Pressure drop domestic hot water side	kPa	-	-	-	-	-	-	30	34	51	48	35	49

- (1) The size up 0200 to 0350 are only available in the silenced versions (E)
 (2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
 (3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
 (4) Water exchanger to the total recovery side 40 °C / 45 °C;
 (5) 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 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Cooling system side 2-pipe system (2)													
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	28,0	33,0	38,0	41,0	45,0	52,0	60,0	64,0	79,0	91,0	99,0	120,0
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	7388	8591	9621	10996	11683	13745	16322	17009	19930	22507	26287	30754
Pressure drop system side	kPa	26	37	22	29	22	31	34	35	32	41	51	63
Heating system side 2-pipe system (3)													
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	28,0	33,0	38,0	41,0	45,0	52,0	60,0	64,0	79,0	91,0	99,0	120,0
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	7995	9211	10428	13035	13904	14599	18423	19466	23812	26417	30067	35629
Pressure drop system side	kPa	30	43	26	41	31	35	43	46	46	56	67	85
Heating domestic hot water side 2-pipe system (4)													
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	28,0	33,0	38,0	41,0	45,0	52,0	60,0	64,0	79,0	91,0	99,0	120,0
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	7995	9211	10428	13035	13904	14599	18423	19466	23810	26417	30067	35629
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 (5)													
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	7388	8591	9621	10996	11683	13745	16322	17009	19930	22507	26287	30754
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	7995	9211	10428	13035	13904	14599	18423	19466	23810	26417	30067	35629
Pressure drop domestic hot water side	kPa	13	17	21	33	38	19	30	34	51	48	35	49

- (1) The size up 0200 to 0350 are only available in the silenced versions (E)
 (2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
 (3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
 (4) Water exchanger to the total recovery side 40 °C / 45 °C;
 (5) 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 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Cooling system side 4-pipe system (2)													
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	-	-	-	-	-	-	55,0	59,0	72,0	82,0	88,0	113,0
EER	W/W	-	-	-	-	-	-	3,08	2,89	2,80	2,79	2,89	2,86
Water flow rate system side	l/h	-	-	-	-	-	-	17181	17868	21305	24225	27490	31785
Pressure drop system side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
Heating system side 4-pipe system (3)													
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	-	-	-	-	-	-	55,0	59,0	72,0	82,0	88,0	113,0
COP	W/W	-	-	-	-	-	-	3,27	3,21	3,32	3,34	3,24	3,29
Water flow rate system side	l/h	-	-	-	-	-	-	18423	19466	23810	26417	30067	35629
Pressure drop system side	kPa	-	-	-	-	-	-	30	34	51	48	35	49
Simultaneous operation (heating + cooling), 4 pipes (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 cold side	l/h	-	-	-	-	-	-	17181	17868	21305	24225	27490	31785
Pressure drop cold side	kPa	-	-	-	-	-	-	37	39	37	48	56	67
Water flow rate hot side	l/h	-	-	-	-	-	-	18423	19466	23810	26417	30067	35629
Pressure drop hot side	kPa	-	-	-	-	-	-	30	34	51	48	35	49

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

(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

(4) 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 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Cooling system side 4-pipe system (2)													
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	28,0	33,0	38,0	41,0	45,0	52,0	60,0	64,0	79,0	91,0	99,0	120,0
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	7388	8591	9621	10996	11683	13745	16322	17009	19930	22507	26287	30754
Pressure drop system side	kPa	26	37	22	29	22	31	34	35	32	41	51	63
Heating system side 4-pipe system (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	28,0	33,0	38,0	41,0	45,0	52,0	60,0	64,0	79,0	91,0	99,0	120,0
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	7995	9211	10428	13035	13904	14599	18423	19466	23810	26417	30067	35629
Pressure drop system side	kPa	13	17	21	33	38	19	30	34	51	48	35	49
Simultaneous operation (heating + cooling), 4 pipes (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 cold side	l/h	7388	8591	9621	10996	11683	13745	16322	17009	19930	22507	26287	30754
Pressure drop cold side	kPa	26	37	22	29	22	31	34	35	32	41	51	63
Water flow rate hot side	l/h	7995	9211	10428	13035	13904	14599	18423	19466	23810	26417	30067	35629
Pressure drop hot side	kPa	13	17	21	33	38	19	30	34	51	48	35	49

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

(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

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

ENERGY DATA

Size		0200 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Cooling capacity with low leaving water temp (UE n° 2016/2281)													
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	3,76
η _{sc}	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
UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ~ 400 kW (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	174,00
SCOP	A	-	-	-	-	-	-	3,53	3,50	3,60	3,68	3,55	3,60
	E	-	3,60	3,53	3,55	3,50	3,50	3,43	3,53	3,50	3,70	3,68	3,55
η _{sh}	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

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

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

ELECTRIC DATA

Size			0200 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Power supply: °														
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

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

GENERAL TECHNICAL DATA

Size			0200 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	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	type	-	-	-	-	-	-	R410A	R410A	R410A	R410A	R410A	R410A
	E	type	-	-	-	-	-	-	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge	A	kg	-	-	-	-	-	-	33,0	33,0	-	-	-	-
	E	kg	16,0	16,0	16,0	20,0	20,0	20,0	33,0	33,0	-	-	-	-
2-pipe system - System side heat exchanger (hot/cold)														
Type	A	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
	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	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
	E	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
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"
2-pipe system - Recovery side heat exchanger (domestic hot water)														
Type	A	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
	E	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	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	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
	E	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
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 - System side heat exchanger (cold side)														
Type	A	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
	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	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
	E	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
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 - Recovery side heat exchanger (hot side)														
Type	A	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
	E	type	-	-	-	-	-	-	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	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	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
	E	Type	-	-	-	-	-	-	G.s.	G.s.	G.s.	G.s.	G.s.	G.s.
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"

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

G.s. = Grooved joints

FANS DATA

Size			0200 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
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	A	m ³ /h	-	-	-	-	-	-	37000	37000	36500	36500	58000	48000
	E	m ³ /h	20000	20000	20000	26000	26000	26000	20200	21100	21400	22400	31900	34600

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

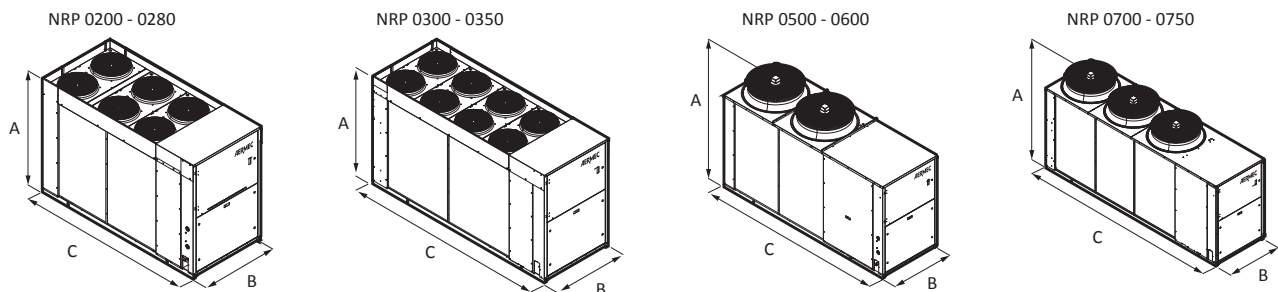
SOUND DATA

Size			0200 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Sound data calculated in cooling mode (2)														
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) The size up 0200 to 0350 are only available in the silenced versions (E)

(2) 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 (1)	0240 (1)	0280 (1)	0300 (1)	0330 (1)	0350 (1)	0500	0550	0600	0650	0700	0750
Dimensions and weights														
A	A	mm	-	-	-	-	-	-	1875	1875	1875	1875	1875	1975
	E	mm	1606	1606	1606	1606	1606	1606	1875	1875	1875	1875	1875	1975
B	A	mm	-	-	-	-	-	-	1100	1100	1100	1100	1100	1500
	E	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1500
C	A	mm	-	-	-	-	-	-	3342	3342	3342	3342	4342	4350
	E	mm	2700	2700	2700	3200	3200	3200	3342	3342	3342	3342	4342	4350
Empty weight	A	kg	-	-	-	-	-	-	1233	1237	1359	1378	1591	1939
	E	kg	788	790	792	862	872	894	1233	1237	1359	1378	1591	1939

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

■ 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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NRP 0804-3606

Air-water multipurpose

Cooling capacity 207 ÷ 963 kW
Heating capacity 208 ÷ 988 kW



- Units designed for 2 or 4-pipe systems
- High efficiency also at partial loads
- Simultaneous and independent production of hot and chilled water
- Also available with Shell and tube heat exchanger



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 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 50 °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.

Exchangers

All the units have plate heat exchangers on service and recovery as standard but, upon request, they can be supplied with a shell & tube heat exchanger as well.

If the customer chooses a unit with tube core exchangers, it is not possible to add a hydronic kit.

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.

■ *The flow switch is available as an accessory for both the system side and the recovery side, and is compulsory; if it is not installed, the warranty will be considered invalid.*

Electronic expansion valve

The units from size 1604 to 3606 have an electronic expansion valve as standard.

There are significant benefits in particular when the unit is working with partial loads, increasing the energy efficiency level.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is 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.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

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

AVX: Spring anti-vibration supports.

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.

GP_V: Anti-intrusion grid kit

BRC1: Condensate drip tray. Consider 1 for each V-block.

BRC1R: Condensate drip tray with heater. Consider 1 for each V-block.

ACCESSORIES COMPATIBILITY

Model	Ver	0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406	2606	2806	3006	3206	3406	3606
AER485P1	A,E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AERNET	A,E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FL	A,E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MULTICHILLER_EVO	A,E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PGD1	A,E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		0804	0904	1004	1104	1204	1414	1604	1805	2006								
A	IDR IMP	IDR REC																
	00	00	AVX882	AVX887	AVX887	AVX887	AVX887	AVX887	AVX871	AVX871	AVX871	AVX871	AVX871	AVX875	AVX875	AVX875	AVX875	AVX875
	PA-DJ	00	AVX886	AVX887	AVX887	AVX887	AVX887	AVX887	AVX872	AVX872	AVX872	AVX872	AVX872	AVX875	AVX875	AVX875	AVX884	AVX884
	00	RA-SJ	AVX886	AVX887	AVX887	AVX887	AVX887	AVX883	AVX873	AVX873	AVX873	AVX873	AVX873	AVX876	AVX876	AVX876	AVX876	AVX876
	PA-DJ	RA-SJ	AVX870	AVX883	AVX883	AVX883	AVX883	AVX883	AVX874	AVX874	AVX874	AVX874	AVX874	AVX876	AVX876	AVX876	AVX884	AVX884
E	00	00	AVX886	AVX871	AVX871	AVX871	AVX871	AVX871	AVX875	AVX877	AVX877	AVX877	AVX877	AVX878	AVX878	AVX878	AVX878	AVX878
	PA-DJ	00	AVX886	AVX872	AVX872	AVX872	AVX872	AVX872	AVX875	AVX877	AVX877	AVX877	AVX877	AVX878	AVX878	AVX878	AVX865	AVX865
	00	RA-SJ	AVX870	AVX873	AVX873	AVX873	AVX873	AVX873	AVX876	AVX877	AVX877	AVX877	AVX877	AVX865	AVX865	AVX865	AVX865	AVX865
	PA-DJ	RA-SJ	AVX870	AVX874	AVX874	AVX874	AVX874	AVX874	AVX876	AVX877	AVX877	AVX877	AVX877	AVX879	AVX879	AVX879	AVX865	AVX865
A			2206	2406	2606	2806	3006	3206	3406	3606								
	IDR IMP	IDR REC																
	00	00	AVX877	AVX877	AVX865	AVX865	AVX866	AVX866	AVX866	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869
	PA-DJ	00	AVX877	AVX885	AVX865	AVX865	AVX866	AVX866	AVX866	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868
	00	RA-SJ	AVX885	AVX885	AVX865	AVX865	AVX867	AVX867	AVX867	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869	AVX869
PA-DJ	RA-SJ	AVX885	AVX885	AVX865	AVX865	AVX867	AVX867	AVX867	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868	AVX868	
E	00	00	AVX866	AVX866	AVX869	AVX869	AVX880	AVX880	AVX881	AVX881								
	PA-DJ	00	AVX866	AVX866	AVX868	AVX868	AVX880	AVX880	AVX881	AVX881								
	00	RA-SJ	AVX867	AVX867	AVX869	AVX869	AVX880	AVX880	AVX888	AVX888								
	PA-DJ	RA-SJ	AVX867	AVX867	AVX868	AVX868	AVX880	AVX880	AVX888	AVX888								

Anti-intrusion grid

Ver	0804	0904	1004	1104	1204	1414	1604	1805	2006
A	GP2VN	GP3VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP5VN	GP5V
E	GP3VN	GP4VN	GP4VN	GP4VN	GP4VN	GP5VN	GP6V	GP7V	GP7V

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

Ver	2206	2406	2606	2806	3006	3206	3406	3606
A	GP6V	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN
E	GP8V	GP8V	GP9VN	GP9VN	GP10V	GP10V	GP11V	GP11V

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

Device for peak current reduction

Ver	0804	0904	1004	1104	1204	1414	1604	1805	2006
A,E	DRENRP0804	DRENRP0904	DRENRP1004	DRENRP1104	DRENRP1204 (1)	DRENRP1414	DRENRP1604 (1)	DRENRP1805	DRENRP2006

(1) Only for power supply 400V 3N ~ 50Hz e 400V 3 ~ 50Hz.

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

Ver	2206	2406	2606	2806	3006	3206	3406	3606
A,E	DRENRP2206	DRENRP2406	-	-	-	-	-	-

The accessory cannot be fitted on the configurations indicated with -

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

Power factor correction

Ver	0804	0904	1004	1104	1204	1414	1604	1805	2006
A	RIFNRP0804A	RIFNRP0904A	RIFNRP1004A	RIFNRP1104A	RIFNRP1204A	RIFNRP1414	RIFNRP1604	RIFNRP1805	RIFNRP2006
E	RIFNRP0804E	RIFNRP0904E	RIFNRP1004E	RIFNRP1104E	RIFNRP1204E	RIFNRP1414	RIFNRP1604	RIFNRP1805	RIFNRP2006

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

Ver	2206	2406	2606	2806	3006	3206	3406	3606
A,E	RIFNRP2206	RIFNRP2406	RIFNRP2606	RIFNRP2806	RIFNRP3006	RIFNRP3206	RIFNRP3406	RIFNRP3606

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

Ver	0804	0904	1004	1104	1204	1414	1604	1805	2006
A,E	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)

(1) Condensate drip tray. Consider 1 for each V-block.

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

Ver	2206	2406	2606	2806	3006	3206	3406	3606
A,E	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)	BRC1 (1)

(1) Condensate drip tray. Consider 1 for each V-block.

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

Ver	0804	0904	1004	1104	1204	1414	1604	1805	2006
A,E	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)

(1) Consider 1 for each V-block.

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

Ver	2206	2406	2606	2806	3006	3206	3406	3606
A,E	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)	BRC1R (1)

(1) Consider 1 for each V-block.

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

CONFIGURATOR

Field	Description
1,2,3	NRP
	Size (1)
4,5,6,7	0804, 0904, 1004, 1104, 1204, 1414, 1604, 1805, 2006, 2206, 2406, 2606, 2806, 3006, 3206, 3406, 3606
8	Version
A	High efficiency (2)
E	Silenced high efficiency
9	System type
2	2-pipe system
4	4-pipe system
10	Coils
°	Copper-aluminium
R	Copper-copper
S	Copper-Tinned copper
V	Copper-painted aluminium
11	Fans
°	AC standard
J	EC Inverter motors
12	Power supply
°	400V ~ 3 50Hz with magnet circuit breakers
13,14	Integrated hydronic kit, user side (3)
00	Without hydronic kit
DA	Pump A + stand-by pump
DB	Pump B + stand-by pump
DC	Pump C + stand-by pump
DD	Pump D + stand-by pump
DE	Pump E + stand-by pump
DF	Pump F + stand-by pump
DG	Pump G + stand-by pump
DH	Pump H + stand-by pump
DI	Pump I + stand-by pump
DJ	Pump J + stand-by pump
PA	Pump A
PB	Pump B
PC	Pump C
PD	Pump D
PE	Pump E
PF	Pump F
PG	Pump G
PH	Pump H
PI	Pump I
PJ	Pump J
15,16	Integrated hydronic kit, recovery side (3)
00	Without hydronic kit
RA	Pump A
RB	Pump B
RC	Pump C
RD	Pump D
RE	Pump E
RF	Pump F
RG	Pump G
RH	Pump H
RI	Pump I
RJ	Pump J
SA	Pump A + stand-by pump
SB	Pump B + stand-by pump
SC	Pump C + stand-by pump

Field	Description
SD	Pump D + stand-by pump
SE	Pump E + stand-by pump
SF	Pump F + stand-by pump
SG	Pump G + stand-by pump
SH	Pump H + stand-by pump
SI	Pump I + stand-by pump
SJ	Pump J + stand-by pump

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

(2) Unit 804 version A cannot be configured with a twin pump on both the system side and the recovery side.

(3) For all configurations including pump J please contact the factory.

PERFORMANCE SPECIFICATIONS

NRP - 2-pipe system version A

Size		0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Cooling system side 2-pipe system (2)										
Cooling capacity	kW	206,7	230,6	259,2	299,6	332,2	386,3	426,2	490,5	544,3
Input power	kW	69,4	76,3	86,1	99,5	116,2	128,1	146,7	165,5	189,8
Cooling total input current	A	124,0	138,0	155,0	172,0	195,0	218,0	247,0	280,0	319,0
EER	W/W	2,98	3,02	3,01	3,01	2,86	3,02	2,91	2,96	2,87
Water flow rate system side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54
Heating system side 2-pipe system (3)										
Heating capacity	kW	209,9	246,0	272,7	306,2	340,5	396,2	437,6	504,8	562,7
Input power	kW	66,8	79,6	85,5	95,7	107,8	125,7	136,8	159,6	180,8
Heating total input current	A	120,0	143,0	154,0	166,0	183,0	214,0	233,0	272,0	306,0
COP	W/W	3,14	3,09	3,19	3,20	3,16	3,15	3,20	3,16	3,11
Water flow rate system side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701
Pressure drop system side	kPa	25	34	39	50	41	52	35	47	51
Heating domestic hot water side 2-pipe system (4)										
Heating capacity	kW	209,9	246,0	272,7	306,2	340,6	396,2	437,6	504,9	562,7
Input power	kW	66,9	79,8	85,6	95,7	108,3	125,4	137,0	159,8	180,9
Heating total input current	A	120,0	143,0	154,0	166,0	183,0	214,0	233,0	272,0	306,0
COP	W/W	3,14	3,08	3,19	3,20	3,15	3,16	3,19	3,16	3,11
Water flow rate domestic hot water side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701
Pressure drop domestic hot water side	kPa	34	47	39	49	61	42	44	53	55
Simultaneous operation (heating + cooling), 2 pipes (5)										
Cooling capacity	kW	211,2	236,7	258,2	306,9	350,5	398,0	446,2	510,6	584,4
Recovered heating power	kW	270,3	304,4	331,0	392,1	448,5	510,5	570,1	653,9	749,6
Input power	kW	62,8	72,4	77,7	91,3	105,2	120,2	132,4	153,7	177,2
Water flow rate system side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54
Water flow rate domestic hot water side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701
Pressure drop domestic hot water side	kPa	34	47	39	49	61	42	44	53	55

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(4) Water exchanger to the total recovery side 40 °C/ 45 °C;
(5) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

NRP - 2-pipe system version A

Size		2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Cooling system side 2-pipe system (2)									
Cooling capacity	kW	598,2	638,8	699,7	743,3	810,1	853,8	919,4	963,0
Input power	kW	202,0	220,3	235,7	257,3	273,7	295,4	312,1	333,7
Cooling total input current	A	341,0	371,0	403,0	441,0	474,0	511,0	544,0	582,0
EER	W/W	2,96	2,90	2,97	2,89	2,96	2,89	2,95	2,89
Water flow rate system side	l/h	102896	109845	120321	127822	139307	146824	158090	165596
Pressure drop system side	kPa	64	47	43	48	52	57	66	73
Heating system side 2-pipe system (3)									
Heating capacity	kW	618,6	660,8	723,7	772,5	829,5	888,9	940,2	988,2
Input power	kW	199,7	209,7	230,5	247,9	265,5	286,7	304,3	321,9
Heating total input current	A	337,0	356,0	395,0	427,0	462,0	489,0	533,0	565,0
COP	W/W	3,10	3,15	3,14	3,12	3,12	3,10	3,09	3,07
Water flow rate system side	l/h	107407	114743	125675	134158	144044	154357	163276	171605
Pressure drop system side	kPa	62	47	42	48	50	57	63	70
Heating domestic hot water side 2-pipe system (4)									
Heating capacity	kW	618,7	660,8	723,7	772,6	829,5	888,9	940,2	988,2
Input power	kW	199,9	209,9	230,6	248,2	265,8	287,3	304,0	321,6
Heating total input current	A	337,0	356,0	395,0	427,0	462,0	489,0	533,0	565,0
COP	W/W	3,10	3,15	3,14	3,11	3,12	3,09	3,09	3,07
Water flow rate domestic hot water side	l/h	107407	114743	125675	134158	144044	154357	163276	171605
Pressure drop domestic hot water side	kPa	66	50	44	53	56	67	57	66
Simultaneous operation (heating + cooling), 2 pipes (5)									
Cooling capacity	kW	630,2	680,0	736,5	788,3	857,7	909,8	966,0	1019,1
Recovered heating power	kW	810,9	871,0	945,6	1015,4	1098,5	1168,6	1242,9	1313,5
Input power	kW	194,7	204,6	223,6	243,4	258,4	278,4	297,9	317,4
Water flow rate system side	l/h	102896	109845	120321	127822	139307	146824	158090	165596
Pressure drop system side	kPa	64	47	43	48	52	57	66	73
Water flow rate domestic hot water side	l/h	107407	114743	125675	134158	144044	154357	163276	171605
Pressure drop domestic hot water side	kPa	66	50	44	53	56	67	57	66

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(4) Water exchanger to the total recovery side 40 °C/ 45 °C;
(5) 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		0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Cooling system side 2-pipe system (2)										
Cooling capacity	kW	200,7	225,7	255,3	296,9	332,7	382,2	427,0	487,6	549,9
Input power	kW	66,0	73,4	83,2	96,4	113,0	125,6	139,1	159,0	182,6
Cooling total input current	A	113,0	125,0	142,0	159,0	182,0	203,0	225,0	256,0	294,0
EER	W/W	3,04	3,07	3,07	3,08	2,94	3,04	3,07	3,07	3,01
Water flow rate system side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54
Heating system side 2-pipe system (3)										
Heating capacity	kW	207,4	240,7	262,4	300,7	338,4	389,4	436,7	503,3	567,2
Input power	kW	63,8	74,6	80,5	92,8	104,9	121,1	134,3	155,5	181,7
Heating total input current	A	109,0	126,0	136,0	153,0	170,0	195,0	217,0	250,0	293,0
COP	W/W	3,25	3,22	3,26	3,24	3,23	3,22	3,25	3,24	3,12
Water flow rate system side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488
Pressure drop system side	kPa	25	33	37	48	40	50	35	46	52
Heating domestic hot water side 2-pipe system (4)										
Heating capacity	kW	207,3	240,7	262,4	300,7	338,5	389,4	436,8	503,3	567,3
Input power	kW	64,0	74,8	80,5	92,8	105,4	120,8	134,6	155,7	181,9
Heating total input current	A	109,0	126,0	136,0	153,0	170,0	195,0	217,0	250,0	293,0
COP	W/W	3,24	3,22	3,26	3,24	3,21	3,22	3,24	3,23	3,12
Water flow rate domestic hot water side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488
Pressure drop domestic hot water side	kPa	34	45	38	48	60	41	44	53	55
Simultaneous operation (heating + cooling), 2 pipes (5)										
Cooling capacity	kW	211,0	236,8	258,3	306,6	350,0	397,8	445,0	509,9	583,9
Recovered heating power	kW	270,0	304,5	331,0	391,9	448,2	510,5	569,2	653,4	749,1
Input power	kW	62,8	72,3	77,6	91,4	105,3	120,3	132,7	153,9	177,3
Water flow rate system side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54
Water flow rate domestic hot water side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488
Pressure drop domestic hot water side	kPa	34	45	38	48	60	41	44	53	55

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
 (2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
 (3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
 (4) Water exchanger to the total recovery side 40 °C / 45 °C;
 (5) 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		2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Cooling system side 2-pipe system (2)									
Cooling capacity	kW	598,5	639,4	695,8	739,2	801,8	844,7	906,4	948,9
Input power	kW	195,9	214,0	230,3	252,1	269,0	291,1	308,1	330,4
Cooling total input current	A	315,0	344,0	375,0	413,0	444,0	482,0	512,0	551,0
EER	W/W	3,05	2,99	3,02	2,93	2,98	2,90	2,94	2,87
Water flow rate system side	l/h	102947	109954	119646	127107	137868	145260	155858	163168
Pressure drop system side	kPa	64	48	43	48	51	57	65	71
Heating system side 2-pipe system (3)									
Heating capacity	kW	618,5	661,8	714,3	763,4	816,0	864,2	922,4	970,1
Input power	kW	199,3	209,7	223,0	240,3	256,1	273,3	293,1	310,5
Heating total input current	A	320,0	338,0	363,0	395,0	424,0	456,0	490,0	521,0
COP	W/W	3,10	3,16	3,20	3,18	3,19	3,16	3,15	3,12
Water flow rate system side	l/h	107379	114913	124046	132574	141707	150072	160181	168462
Pressure drop system side	kPa	62	47	41	47	48	54	61	67
Heating domestic hot water side 2-pipe system (4)									
Heating capacity	kW	618,5	661,8	714,3	763,5	816,0	864,2	922,4	970,1
Input power	kW	199,5	209,9	223,1	240,6	256,5	273,8	292,8	310,3
Heating total input current	A	320,0	338,0	363,0	395,0	424,0	456,0	490,0	521,0
COP	W/W	3,10	3,15	3,20	3,17	3,18	3,16	3,15	3,13
Water flow rate domestic hot water side	l/h	107379	114913	124046	132574	141707	150072	160181	168462
Pressure drop domestic hot water side	kPa	66	50	43	52	55	63	55	63
Simultaneous operation (heating + cooling), 2 pipes (5)									
Cooling capacity	kW	630,2	679,9	737,0	788,9	858,6	911,1	967,3	1018,8
Recovered heating power	kW	810,9	871,0	946,0	1015,9	1099,3	1169,6	1244,0	1313,7
Input power	kW	194,7	204,7	223,3	243,1	258,1	277,8	297,4	317,5
Water flow rate system side	l/h	102947	109954	119646	127107	137868	145260	155858	163168
Pressure drop system side	kPa	64	48	43	48	51	57	65	71
Water flow rate domestic hot water side	l/h	107379	114913	124046	132574	141707	150072	160181	168462
Pressure drop domestic hot water side	kPa	66	50	43	52	55	63	55	63

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
 (2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
 (3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
 (4) Water exchanger to the total recovery side 40 °C / 45 °C;
 (5) 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		0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Cooling system side 4-pipe system (2)										
Cooling capacity	kW	206,7	230,6	259,2	299,6	332,2	386,3	426,2	490,5	544,3
Input power	kW	69,4	76,3	86,1	99,5	116,2	128,1	146,7	165,5	189,8
Cooling total input current	A	124,0	138,0	155,0	172,0	195,0	218,0	247,0	280,0	319,0
EER	W/W	2,98	3,02	3,01	3,01	2,86	3,02	2,91	2,96	2,87
Water flow rate system side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54
Heating system side 4-pipe system (3)										
Heating capacity	kW	209,9	246,0	272,7	306,2	340,6	396,2	437,6	504,9	562,7
Input power	kW	66,9	79,8	85,6	95,7	108,3	125,4	137,0	159,8	180,9
Heating total input current	A	120,0	143,0	154,0	166,0	183,0	214,0	233,0	272,0	306,0
COP	W/W	3,14	3,08	3,19	3,20	3,15	3,16	3,19	3,16	3,11
Water flow rate system side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701
Pressure drop system side	kPa	34	47	39	49	61	42	44	53	55
Simultaneous operation (heating + cooling), 4 pipes (4)										
Cooling capacity	kW	211,2	236,7	258,2	306,9	350,5	398,0	446,2	510,6	584,4
Recovered heating power	kW	270,3	304,4	331,0	392,1	448,5	510,5	570,1	653,9	749,6
Input power	kW	62,8	72,4	77,7	91,3	105,2	120,2	132,4	153,7	177,2
Water flow rate cold side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611
Pressure drop cold side	kPa	24	33	34	42	43	36	36	49	54
Water flow rate hot side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701
Pressure drop hot side	kPa	34	47	39	49	61	42	44	53	55

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C
(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(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		2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Cooling system side 4-pipe system (2)									
Cooling capacity	kW	598,2	638,8	699,7	743,3	810,1	853,8	919,4	963,0
Input power	kW	202,0	220,3	235,7	257,3	273,7	295,4	312,1	333,7
Cooling total input current	A	341,0	371,0	403,0	441,0	474,0	511,0	544,0	582,0
EER	W/W	2,96	2,90	2,97	2,89	2,96	2,89	2,95	2,89
Water flow rate system side	l/h	102896	109845	120321	127822	139307	146824	158090	165596
Pressure drop system side	kPa	64	47	43	48	52	57	66	73
Heating system side 4-pipe system (3)									
Heating capacity	kW	618,7	660,8	723,7	772,6	829,5	888,9	940,2	988,2
Input power	kW	199,9	209,9	230,6	248,2	265,8	287,3	304,0	321,6
Heating total input current	A	337,0	356,0	395,0	427,0	462,0	489,0	533,0	565,0
COP	W/W	3,10	3,15	3,14	3,11	3,12	3,09	3,09	3,07
Water flow rate system side	l/h	107407	114743	125675	134158	144044	154357	163276	171605
Pressure drop system side	kPa	66	50	44	53	56	67	57	66
Simultaneous operation (heating + cooling), 4 pipes (4)									
Cooling capacity	kW	630,2	680,0	736,5	788,3	857,7	909,8	966,0	1019,1
Recovered heating power	kW	810,9	871,0	945,6	1015,4	1098,5	1168,6	1242,9	1313,5
Input power	kW	194,7	204,6	223,6	243,4	258,4	278,4	297,9	317,4
Water flow rate cold side	l/h	102896	109845	120321	127822	139307	146824	158090	165596
Pressure drop cold side	kPa	64	47	43	48	52	57	66	73
Water flow rate hot side	l/h	107407	114743	125675	134158	144044	154357	163276	171605
Pressure drop hot side	kPa	66	50	44	53	56	67	57	66

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C
(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(4) 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		0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Cooling system side 4-pipe system (2)										
Cooling capacity	kW	200,7	225,7	255,3	296,9	332,7	382,2	427,0	487,6	549,9
Input power	kW	66,0	73,4	83,2	96,4	113,0	125,6	139,1	159,0	182,6
Cooling total input current	A	113,0	125,0	142,0	159,0	182,0	203,0	225,0	256,0	294,0
EER	W/W	3,04	3,07	3,07	3,08	2,94	3,04	3,07	3,07	3,01
Water flow rate system side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54
Heating system side 4-pipe system (3)										
Heating capacity	kW	207,3	240,7	262,4	300,7	338,5	389,4	436,8	503,3	567,3
Input power	kW	64,0	74,8	80,5	92,8	105,4	120,8	134,6	155,7	181,9
Heating total input current	A	109,0	126,0	136,0	153,0	170,0	195,0	217,0	250,0	293,0
COP	W/W	3,24	3,22	3,26	3,24	3,21	3,22	3,24	3,23	3,12
Water flow rate system side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488
Pressure drop system side	kPa	34	45	38	48	60	41	44	53	55
Simultaneous operation (heating + cooling), 4 pipes (4)										
Cooling capacity	kW	211,0	236,8	258,3	306,6	350,0	397,8	445,0	509,9	583,9
Recovered heating power	kW	270,0	304,5	331,0	391,9	448,2	510,5	569,2	653,4	749,1
Input power	kW	62,8	72,3	77,6	91,4	105,3	120,3	132,7	153,9	177,3
Water flow rate cold side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585
Pressure drop cold side	kPa	25	33	34	43	44	37	38	49	54
Water flow rate hot side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488
Pressure drop hot side	kPa	34	45	38	48	60	41	44	53	55

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C
(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(4) 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		2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Cooling system side 4-pipe system (2)									
Cooling capacity	kW	598,5	639,4	695,8	739,2	801,8	844,7	906,4	948,9
Input power	kW	195,9	214,0	230,3	252,1	269,0	291,1	308,1	330,4
Cooling total input current	A	315,0	344,0	375,0	413,0	444,0	482,0	512,0	551,0
EER	W/W	3,05	2,99	3,02	2,93	2,98	2,90	2,94	2,87
Water flow rate system side	l/h	102947	109954	119646	127107	137868	145260	155858	163168
Pressure drop system side	kPa	64	48	43	48	51	57	65	71
Heating system side 4-pipe system (3)									
Heating capacity	kW	618,5	661,8	714,3	763,5	816,0	864,2	922,4	970,1
Input power	kW	199,5	209,9	223,1	240,6	256,5	273,8	292,8	310,3
Heating total input current	A	320,0	338,0	363,0	395,0	424,0	456,0	490,0	521,0
COP	W/W	3,10	3,15	3,20	3,17	3,18	3,16	3,15	3,13
Water flow rate system side	l/h	107379	114913	124046	132574	141707	150072	160181	168462
Pressure drop system side	kPa	66	50	43	52	55	63	55	63
Simultaneous operation (heating + cooling), 4 pipes (4)									
Cooling capacity	kW	630,2	679,9	737,0	788,9	858,6	911,1	967,3	1018,8
Recovered heating power	kW	810,9	871,0	946,0	1015,9	1099,3	1169,6	1244,0	1313,7
Input power	kW	194,7	204,7	223,3	243,1	258,1	277,8	297,4	317,5
Water flow rate cold side	l/h	102947	109954	119646	127107	137868	145260	155858	163168
Pressure drop cold side	kPa	64	48	43	48	51	57	65	71
Water flow rate hot side	l/h	107379	114913	124046	132574	141707	150072	160181	168462
Pressure drop hot side	kPa	66	50	43	52	55	63	55	63

- (1) The units from size 1805 to 3606 have an electronic expansion valve as standard.
(2) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C
(3) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(4) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

ENERGY DATA

Size			0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Fans: °											
Cooling capacity with low leaving water temp (UE n° 2016/2281)											
SEER	A	W/W	3,94	4,04	4,00	3,89	4,03	4,14	4,21	4,23	4,24
	E	W/W	4,22	4,30	4,21	4,08	4,12	4,25	4,24	4,28	4,27
η_{sc}	A	%	154,60	158,50	156,90	152,80	158,20	162,50	165,50	166,00	166,60
	E	%	166,00	169,00	165,40	160,10	161,70	167,00	166,80	168,20	167,80
UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ~ 400 kW (2)											
Pdesignh	A	kW	188,98	221,78	246,64	276,68	309,44	358,27	395,99	-	-
	E	kW	184,95	215,78	235,92	269,81	305,13	350,22	391,37	-	-
SCOP	A		3,53	3,27	3,44	3,49	3,60	3,53	3,66	-	-
	E		3,71	3,59	3,69	3,70	3,82	3,70	3,75	-	-
η_{sh}	A	%	138,30	127,70	134,50	136,70	140,90	138,40	143,60	-	-
	E	%	145,50	140,60	144,70	144,90	149,70	145,20	147,20	-	-
Fans: J											
Cooling capacity with low leaving water temp (UE n° 2016/2281)											
SEER	A	W/W	4,25	4,36	4,32	4,21	4,35	4,47	4,55	4,56	4,58
	E	W/W	4,56	4,64	4,55	4,40	4,45	4,59	4,58	4,62	4,61
η_{sc}	A	%	167,20	171,40	169,70	165,20	171,10	175,80	179,00	179,50	180,10
	E	%	179,50	182,80	178,80	173,10	174,90	180,60	180,30	181,80	181,50
UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ~ 400 kW (2)											
Pdesignh	A	kW	188,98	221,78	246,64	276,68	309,44	358,27	395,99	-	-
	E	kW	184,95	215,78	235,92	269,81	305,13	350,22	391,37	-	-
SCOP	A		3,53	3,27	3,44	3,49	3,60	3,53	3,66	-	-
	E		3,71	3,59	3,69	3,70	3,82	3,70	3,75	-	-
η_{sh}	A	%	138,30	127,70	134,50	136,70	140,90	138,40	143,60	-	-
	E	%	145,50	140,60	144,70	144,90	149,70	145,20	147,20	-	-

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

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

Size			2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Fans: °										
Cooling capacity with low leaving water temp (UE n° 2016/2281)										
SEER	A	W/W	4,24	4,25	4,24	4,22	4,24	4,22	4,22	4,23
	E	W/W	4,28	4,28	4,27	4,24	4,27	4,27	4,27	4,23
η_{sc}	A	%	166,60	166,80	166,80	165,70	166,80	165,90	165,90	166,00
	E	%	168,20	168,00	167,90	166,60	167,70	167,90	168,00	166,30
Fans: J										
Cooling capacity with low leaving water temp (UE n° 2016/2281)										
SEER	A	W/W	4,58	4,59	4,58	4,56	4,58	4,56	4,56	4,56
	E	W/W	4,62	4,62	4,62	4,58	4,61	4,62	4,62	4,57
η_{sc}	A	%	180,20	180,40	180,40	179,20	180,40	179,40	179,40	179,60
	E	%	181,90	181,70	181,60	180,20	181,30	181,60	181,70	179,80

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

ELECTRIC DATA

Size			0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Electric data											
Maximum current (FLA)	A	A	163,0	188,0	205,0	233,0	261,0	303,0	337,0	386,0	427,0
	E	A	170,0	196,0	213,0	241,0	269,0	311,0	352,0	401,0	442,0
Peak current (LRA)	A	A	368,0	431,0	449,0	485,0	513,0	636,0	670,0	638,0	679,0
	E	A	376,0	439,0	456,0	493,0	521,0	644,0	685,0	653,0	694,0

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

Size			2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Electric data										
Maximum current (FLA)	A	A	468,0	502,0	550,0	590,0	637,0	677,0	725,0	764,0
	E	A	484,0	518,0	565,0	605,0	653,0	693,0	746,0	786,0
Peak current (LRA)	A	A	801,0	835,0	883,0	923,0	906,0	946,0	994,0	1034,0
	E	A	817,0	851,0	898,0	938,0	922,0	962,0	1015,0	1055,0

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

GENERAL TECHNICAL DATA

Size			0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Compressor											
Type	A,E	type					Scroll				
Number	A,E	no.	4	4	4	4	4	4	4	5	6
Circuits	A,E	no.	2	2	2	2	2	2	2	2	2
Refrigerant	A,E	type					R410A				
Potential global heating	A,E	GWP					2088kgCO ₂ eq				
Refrigerant charge	A	kg	41,1	61,0	61,4	62,7	62,8	83,6	83,6	106,1	107,6
	E	kg	61,0	80,8	81,2	82,9	83,0	103,9	124,1	147,2	149,3
2-pipe system - System side heat exchanger (hot/cold)											
Type	A,E	type					Brazed plate				
Number	A,E	no.	1	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	Type					G.s.				
Size (in)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
Size (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
2-pipe system - Recovery side heat exchanger (domestic hot water)											
Type	A,E	type					Brazed plate				
Number	A,E	no.	2	2	2	2	2	2	2	2	2
Manifold connection (in/out)	A,E	Type					G.s.				
Manifold diameter (in)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
Manifold diameter (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
4-pipe system - System side heat exchanger (cold side)											
Type	A,E	type					Brazed plate				
Number	A,E	no.	1	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	Type					G.s.				
Size (in)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
Size (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
4-pipe system - Recovery side heat exchanger (hot side)											
Type	A,E	type					Brazed plate				
Number	A,E	no.	2	2	2	2	2	2	2	2	2
Manifold connection (in/out)	A,E	Type					G.s.				
Manifold diameter (in)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
Manifold diameter (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"
Fan											
Type	A,E	type					Axial				
Fan motor	A,E	type					On-Off				
Number	A	no.	4	6	6	6	6	8	8	10	10
	E	no.	6	8	8	8	8	10	12	14	14
Air flow rate	A	m ³ /h	80000	120000	120000	120000	120000	160000	160000	200000	200000
	E	m ³ /h	80000	110000	110000	110000	110000	130000	160000	180000	180000
Sound data calculated in cooling mode (2)											
Sound power level	A	dB(A)	89,5	91,6	91,6	91,6	91,6	93,1	93,1	94,2	94,2
	E	dB(A)	84,6	86,1	86,1	86,1	86,1	87,2	88,2	89,4	89,9

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

(2) 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).

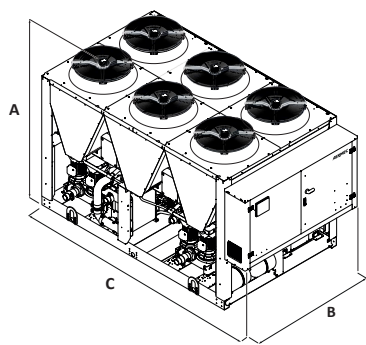
Size			2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Compressor										
Type	A,E	type	Scroll							
Number	A,E	no.	6	6	6	6	6	6	6	6
Circuits	A,E	no.	2	2	2	2	2	2	2	2
Refrigerant	A,E	type	R410A							
Potential global heating	A,E	GWP	2088kgCO ₂ eq							
Refrigerant charge	A	kg	129,2	129,2	156,9	161,5	184,8	184,8	207,7	207,7
	E	kg	170,9	170,9	199,9	205,8	229,0	229,0	252,0	252,0
2-pipe system - System side heat exchanger (hot/cold)										
Type	A,E	type	Brazed plate							
Number	A,E	no.	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	Type	G.s.							
Size (in)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
Size (out)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
2-pipe system - Recovery side heat exchanger (domestic hot water)										
Type	A,E	type	Brazed plate							
Number	A,E	no.	2	2	2	2	2	2	2	2
Manifold connection (in/out)	A,E	Type	G.s.							
Manifold diameter (in)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
Manifold diameter (out)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
4-pipe system - System side heat exchanger (cold side)										
Type	A,E	type	Brazed plate							
Number	A,E	no.	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	Type	G.s.							
Size (in)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
Size (out)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
4-pipe system - Recovery side heat exchanger (hot side)										
Type	A,E	type	Brazed plate							
Number	A,E	no.	2	2	2	2	2	2	2	2
Manifold connection (in/out)	A,E	Type	G.s.							
Manifold diameter (in)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
Manifold diameter (out)	A,E	Ø	4"	5"	5"	5"	5"	5"	5"	5"
Fan										
Type	A,E	type	Axial							
Fan motor	A,E	type	On-Off							
Number	A	no.	12	12	14	14	16	16	18	18
	E	no.	16	16	18	18	20	20	22	22
Air flow rate	A	m ³ /h	240000	240000	280000	280000	320000	320000	350000	350000
	E	m ³ /h	210000	210000	230000	230000	260000	260000	280000	280000
Sound data calculated in cooling mode (2)										
Sound power level	A	dB(A)	95,1	95,1	95,9	95,9	96,6	96,6	97,2	97,2
	E	dB(A)	91,1	91,6	92,2	92,2	92,7	92,7	93,2	93,2

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

(2) 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).

G.s. = Grooved joints

DIMENSIONS



Size			0804 (1)	0904 (1)	1004 (1)	1104 (1)	1204 (1)	1414 (1)	1604 (1)	1805 (1)	2006 (1)
Dimensions and weights											
A	A,E	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	A,E	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	A	mm	2780	3970	3970	3970	3970	4760	4760	6350	6350
	E	mm	3970	4760	4760	4760	4760	5950	7140	8330	8330
Empty weight	A	kg	2560	3060	3180	3370	3640	4300	4470	5310	5720
	E	kg	2980	3620	3740	3930	4200	4770	5350	6250	6680

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

Size			2206 (1)	2406 (1)	2606 (1)	2806 (1)	3006 (1)	3206 (1)	3406 (1)	3606 (1)
Dimensions and weights										
A	A,E	mm	2450	2450	2450	2450	2450	2450	2450	2450
B	A,E	mm	2200	2200	2200	2200	2200	2200	2200	2200
C	A	mm	7140	7140	8330	8330	9520	9520	10710	10710
	E	mm	9520	9520	10710	10710	11900	11900	13090	13090
Empty weight	A	kg	6370	6630	7280	7410	8200	8270	8890	8960
	E	kg	7350	7610	8200	8330	9030	9100	9730	9800

(1) The units from size 1805 to 3606 have an electronic expansion valve as standard.

■ 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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CPS

Multifunction unit with multiple temperature level capability

Cooling capacity 164 ÷ 491 kW
Heating capacity 176 ÷ 505 kW

- Multipurpose 6 pipes plug and play system
- Simultaneous and independent production of chilled water, medium temperature hot water and high temperature hot water (also suitable for domestic use)
- Uses heat recovery for simultaneous cooling and heating



DESCRIPTION

The multi-purpose 6-pipe units CPS are designed for residential buildings and accommodation facilities that require the simultaneous availability of heating and cooling for the rooms, along with high-temperature water (up to 73°C on the machine outlet) for heating needs and/or DHW production.

Each single service (cooling, medium-temperature heating, high-temperature hot water) can be supplied independently of the request for the others.

The versatile functions, extended operating limits and simplified installation of these units mean that they can also be used in a variety of different industrial processes.

CPS the ideal solution for both new installations and upgrading existing systems.

FEATURES

Operating field

Possibility to produce water up to 73°C, using mainly free-heating for cooling requests.

2 dual circuit units

Created by combining and optimising, in a single system, an NRP series 4-pipe multifunction air-water unit (with scroll compressors and R410A refrigerant) **for the production of chilled water and medium temperature hot water on the heating/cooling circuit side**, and a WWB series water-water heat pump (with scroll compressors and R134a refrigerant) **for the production of domestic hot water (DHW).**

Constructional characteristics of unit

CPS units can be installed and operated even in locations with limit space, offering significant time savings in terms of both system planning and installation, while tried-and-tested, optimised management logic makes it possible to create plug-and-play systems with superior reliability and efficiency.

These units consist of:

4 cooling circuits

- 2 circuits (C1/C2) with R410A gas

- 2 circuits (C2/C3) with R134a gas

3 plate heat exchanger

- 1 Plate heat exchanger for chilled water
- 1 Plate heat exchanger for medium temperature hot water
- 1 Inspectable **stainless steel** plate heat exchanger for high temperature hot water production (DHW)

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

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 create a solution which offers both cost savings and facilitated installation, these units may be configured with an integrated hydronic kit on the chilled water utility side. A hydronic kit must always be used, however, on the medium temperature water side.

These kits include all the main plumbing components necessary, and are available in a variety of configurations with either a single pump or with a backup pump to offer a choice of different total head values.

■ *Flow switches must be installed on both the cold and medium temperature water utility circuits to protect the heat exchangers. Failure to do so will render the warranty null and void.*

CONTROL PCO⁵

Microprocessor adjustment, with 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 and the adjustment includes complete management of the alarms and their log.

- 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.
- **Floating HP control:** Allows, with continuous fan modulation, to optimize the operation of the unit in any operating point, ensuring

an increase in the energy efficiency at partial load. **ESEER up to +7% with inverter fans**

- **Night Mode:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

CONFIGURATOR

Field	Description
1,2,3	CPS
4,5,6,7	Size 0704, 1004, 1805
8	Coils
	° Copper-aluminium
R	Copper-copper
S	Copper-Tinned copper
V	Copper-painted aluminium
9	Fans
	° Asynchronous + DCPX
J	Inverter
10	Power supply
	° 400V ~ 3 50Hz with magnet circuit breakers
S	400V ~ 3 50Hz with soft-start
11,12	Hydronic kit integrated on chilled water utility side
00	Without hydronic kit
DA	Pump A + stand-by pump
DB	Pump B + stand-by pump
DC	Pump C + stand-by pump
DD	Pump D + stand-by pump
DE	Pump E + stand-by pump
DF	Pump F + stand-by pump
DG	Pump G + stand-by pump
DH	Pump H + stand-by pump
DI	Pump I + stand-by pump
PA	Pump A
PB	Pump B

Field	Description
PC	Pump C
PD	Pump D
PE	Pump E
PF	Pump F
PG	Pump G
PH	Pump H
PI	Pump I
13,14	Hydronic kit integrated on medium temperature water utility side
RA	Pump A
RB	Pump B
RC	Pump C
RD	Pump D
RE	Pump E
RF	Pump F
RG	Pump G
RH	Pump H
RI	Pump I
SA	Pump A + stand-by pump
SB	Pump B + stand-by pump
SC	Pump C + stand-by pump
SD	Pump D + stand-by pump
SE	Pump E + stand-by pump
SF	Pump F + stand-by pump
SG	Pump G + stand-by pump
SH	Pump H + stand-by pump
SI	Pump I + stand-by pump

COMPATIBILITY BETWEEN DIFFERENT HYDRONIC KITS

These kits include all the main plumbing components necessary, and are available in a variety of configurations with either a single pump or with a backup pump to offer a choice of different total head values.

The following table illustrates the compatibility between different unit sizes and the hydronic kits.

All units must be configured with the medium temperature water side hydronic kit.

		CPS0704	CPS1004	CPS1805			CPS0704	CPS1004	CPS1805
Pumps - COLD WATER side	PA-DA	PA-DA			Pumps - HOT WATER (AVERAGE TEMPERATURE) side	RA-SA	RA-SA		
	PB-DB	PB-DB				RB-SB	RB-SB		
	PC-DC	PC-DC	PC-DC			RC-SC	RC-SC	RC-SC	
	PD-DD	PD-DD	PD-DD			RD-SD	RD-SD	RD-SD	
	PE-DE	PE-DE	PE-DE	PE-DE		RE-SE		RE-SE	RE-SE
	PF-DF		PF-DF	PF-DF		RF-SF		RF-SF	RF-SF
	PG-DG			PG-DG		RG-SG			RG-SG
	PH-DH			PH-DH		RH-SH			RH-SH
	PI-DI			PI-DI		RI-SI			RI-SI

PERFORMANCE SPECIFICATIONS

		CPS0704 ^{***} 00RA	CPS1004 ^{***} 00RC	CPS1805 ^{***} 00RE
Household system side cooling (1)				
Cooling capacity	kW	163,9	259,2	490,5
Input power	kW	53,2	86,3	165,7
Cooling total input current	A	97,0	128,0	239,0
EER	W/W	3,08	3,00	2,96
Water flow rate system side	l/h	28212	44593	84370
Pressure drop system side	kPa	32	34	49
Medium temperature system heating (2)				
Heating capacity	kW	175,2	271,8	503,5
Input power	kW	55,8	86,5	161,7
Heating total input current	A	104,0	136,0	250,0
COP	W/W	3,14	3,14	3,11
Water flow rate system side	l/h	30521	47339	87653
Useful head system side	kPa	99	120	113
High temperature system side heating (DHW) (3)				
Heating capacity (DHW)	kW	90,7	177,4	251,9
Input power	kW	48,4	85,3	144,3
Heating total input current	A	88,0	134,0	211,0
COP	W/W	1,87	2,08	1,75
Water flow rate domestic hot water side	l/h	7897	15442	21924
Pressure drop domestic hot water side	kPa	30	40	39
Simultaneous operation (cooling + medium temperature heating) (4)				
Cooling capacity	kW	163,3	258,3	466,2
Heating capacity	kW	207,8	330,2	600,6
Input power	kW	48,4	78,7	147,7
Total input current	A	92	136	253
TER	W/W	7,66	7,47	7,22
Water flow rate cold side	l/h	28212	45593	84370
Pressure drop cold side	kPa	32	34	49
Water flow rate hot side	l/h	30521	47339	87653
Useful head system side	kPa	99	120	113
Simultaneous operation (cooling + high temperature DHW production) (5)				
Cooling capacity	kW	160,0	250,0	463,5
Heating capacity (DHW)	kW	90,7	177,4	251,9
Input power	kW	70,7	124,1	217,0
Cooling total input current	A	126	191	333
TER	W/W	3,54	3,45	3,30
Water flow rate cold side	l/h	27536	43003	79720
Pressure drop cold side	kPa	30	31	44
Water flow rate domestic hot water side	l/h	7899	15442	21924
Pressure drop domestic hot water side	kPa	30	40	39
Simultaneous operation (medium temperature heating + high temperature DHW production) (6)				
Heating capacity	kW	101,4	129,5	304,2
Heating capacity (DHW)	kW	90,5	177,0	251,3
Input power	kW	73,7	123,9	215,6
Total input current	A	137	196	341
TER	W/W	2,60	2,47	2,58
Water flow rate hot side	l/h	17696	22604	53038
Useful head system side	kPa	158	189	256
Water flow rate domestic hot water side	l/h	7897	15442	21924
Pressure drop domestic hot water side	kPa	30	40	39
Simultaneous operation (cooling + medium temperature heating + high temperature DHW production) (7)				
Cooling capacity	kW	163,3	258,3	466,2
Heating capacity	kW	134,0	187,9	401,4
Heating capacity (DHW)	kW	90,5	177,0	251,3
Total input power	kW	66,7	116,6	204,1
Total input current	A	125	199	347
TER	W/W	5,81	5,35	5,48
Water flow rate cold side	l/h	28212	44593	84370
Pressure drop cold side	kPa	32	34	49
Water flow rate hot side	l/h	30521	47339	87653
Useful head system side	kPa	99	120	113
Water flow rate domestic hot water side	l/h	7897	15442	21924
Pressure drop domestic hot water side	kPa	30	40	39

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

(2) Data 14511:2018; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

(3) Data 14511:2018; Heat exchanger - services side (DHW at high temperature) 55°C / 65°C; Outside air 7°C D.B./6°C W.B.

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

(5) Data 14511:2018; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C; Heat exchanger water (DHW side) 55°C / 65°C

(6) Data 14511:2018; Heat exchanger water (services side) * °C / 45°C; Outside air 7°C D.B./6°C W.B.; Heat exchanger water (DHW side) 55°C / 65°C

(7) Heat exchanger - services side (cold water) * / 7°C; Heat exchanger - services side (hot water at average temperature) * / 45°C; Heat exchanger - services side (hot water at high temperature) 55°C / 65°C

ENERGY DATA

		CPS0704 ⁰⁰⁰ 00RA	CPS1004 ⁰⁰⁰ 00RC	CPS1805 ⁰⁰⁰ 00RE
Cooling capacity with low leaving water temp (UE n° 2016/2281)				
SEER	W/W	-	-	4,56
η_{sc}	%	-	-	180%
UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ~ 400 kW (1)				
Pdesignh	kW	150	241	-
SCOP		2,66	2,76	-
η_{sh}	%	103%	107%	-
UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ~ 400 kW (2)				
Pdesignh	kW	158	246	-
SCOP		3,26	3,44	-
η_{sh}	%	128%	135%	-

(1) Efficiencies for average temperature applications (55 °C)

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

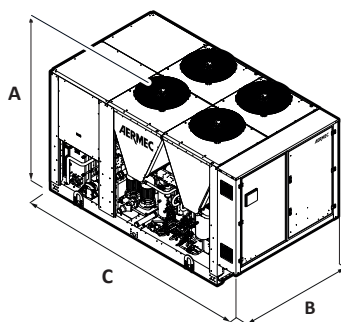
ELECTRIC DATA

		CPS0704 ⁰⁰⁰ 00RA	CPS1004 ⁰⁰⁰ 00RC	CPS1805 ⁰⁰⁰ 00RE
Cooling only mode				
Maximum current (FLA)	A	153,0	220,0	420,0
Peak current (LRA)	A	293,0	459,0	746,0
Medium temperature heating mode operation only				
Maximum current (FLA)	A	153,0	220,0	420,0
Peak current (LRA)	A	293,0	459,0	746,0
High temperature DHW production operating mode only				
Maximum current (FLA)	A	121,0	203,0	320,0
Peak current (LRA)	A	261	442	645
Simultaneous operation (medium temperature heating + cooling)				
Maximum current (FLA)	A	138,0	197,0	381,0
Peak current (LRA)	A	278	436	707
Simultaneous operation (medium temperature heating + high temperature DHW production)				
Maximum current (FLA)	A	197,0	308,0	549,0
Peak current (LRA)	A	337	547	874
Simultaneous operation (cooling + DHW production operating)				
Maximum current (FLA)	A	189,0	300,0	533,0
Peak current (LRA)	A	329	539	858
Simultaneous operation (cooling + medium temperature heating + high temperature DHW production)				
Maximum current (FLA)	A	181,0	284,0	510,0
Peak current (LRA)	A	321	523	835

GENERAL TECHNICAL DATA

		CPS0704 ⁰⁰⁰ 00RA	CPS1004 ⁰⁰⁰ 00RC	CPS1805 ⁰⁰⁰ 00RE
Compressor - Circuit (C1/C2)				
Type	type		Scroll	
Number	no.	4	4	5
Circuits	no.	2	2	2
Refrigerant	type		R410A	
Refrigerant charge	kg	45,0	61,0	106,0
Thermostatic expansion valve	type		Meccanica	
Compressor - Circuit (C3/C4)				
Type	type		Scroll	
Number	no.	2	2	2
Circuits	no.	2	2	2
Refrigerant	type		R134a	
Refrigerant charge	kg	7,0	15,0	20,0
Thermostatic expansion valve	type		Elettronica	
Utility side heat exchanger (cooling)				
Type	type		Brazed plate	
Number	no.	1	1	1
Connections (in/out)	Type		Grooved joints	
Sizes (in/out)	Ø	2" 1/2	3"	4"
Utility side heat exchanger (medium temperature heating)				
Type	type		Brazed plate	
Number	no.	2	2	2
Manifold connection (in/out)	Type		Grooved joints	
Manifold diameter (in/out)	Ø	2" 1/2	3"	4"
Utility side heat exchanger (high temperature heating)				
Type	type		Brazed plate	
Number	no.	1	1	1
Connections (in/out)	Type		Gas	
Sizes (in/out)	Ø		2" M	
Fan				
Type	type		Axial	
Fan motor	type		Asynchronous with phase cut	
Number	no.	4	6	10
Air flow rate	m³/h	88000	116500	194100

DIMENSIONS



		CPS0704 ⁰⁰⁰ 00RA	CPS1004 ⁰⁰⁰ 00RC	CPS1805 ⁰⁰⁰ 00RE
Dimensions and weights				
A	mm	2450	2450	2450
B	mm	2200	2200	2200
C	mm	3975	5760	8143

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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NXP 0500 - 1650

Water-water multipurpose

Cooling capacity 108 ÷ 502 kW
Heating capacity 122 ÷ 549 kW

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



DESCRIPTION

Multi-purpose indoor model designed for applications with 2 or 4-pipe systems. Just one unit is capable of satisfying the yearly hot and cold water demand simultaneously and independently. The base the structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

- ° Standard
- L Standard silenced

FEATURES

Operating field

Work at full load with chilled water production from 4 to 18°C at the evaporator and hot water at the condenser up to 55 °C. (for more information, refer to the technical documentation).

Dual-circuit unit

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

Exchangers

All standard units have user-side heat exchangers and plate recovery, optimised to take advantage of the excellent heat exchange characteristics of the R410A.

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.

■ The flow switch is available as an accessory for both the system side and the recovery side, and is compulsory; if it is not installed, the warranty will be considered invalid.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is 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.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

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

AVX: Spring anti-vibration supports.

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	0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
AER485P1	°,L	*	*	*	*	*	*	*	*	*	*	*	*	*
AERNET	°,L	*	*	*	*	*	*	*	*	*	*	*	*	*
FL	°,L	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER_EVO	°,L	*	*	*	*	*	*	*	*	*	*	*	*	*
PGD1	°,L	*	*	*	*	*	*	*	*	*	*	*	*	*

Antivibration

Version	Integrated hydronic kit, user side	Integrated hydronic kit, recovery side	0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
°	°	°	AVX350	AVX350	AVX351	AVX351	AVX351	AVX351	AVX352	AVX352	AVX353	AVX353	AVX353	AVX354	AVX354
°	°	U,V	AVX357	AVX357	AVX358	AVX358	AVX358	AVX359	AVX360	AVX360	AVX361	AVX361	AVX361	AVX361	AVX361
°	M,N	°,U,V,W,Z	AVX357	AVX357	AVX358	AVX358	AVX358	AVX359	AVX360	AVX360	AVX361	AVX361	AVX361	AVX361	AVX361
°	O,P	U,V	AVX357	AVX357	AVX358	AVX358	AVX358	AVX359	AVX360	AVX360	AVX361	AVX361	AVX361	AVX361	AVX361
°	°	W,Z	AVX357	AVX357	AVX359	AVX359	AVX359	AVX359	AVX363	AVX363	AVX364	AVX364	AVX364	AVX364	AVX364
°	O,P	°,W,Z	AVX357	AVX357	AVX359	AVX359	AVX359	AVX359	AVX363	AVX363	AVX364	AVX364	AVX364	AVX364	AVX364
L	°	°	AVX351	AVX351	AVX359	AVX359	AVX359	AVX356	AVX353	AVX353	AVX353	AVX354	AVX354	AVX354	AVX354
L	°	U,V	AVX358	AVX358	AVX359	AVX359	AVX359	AVX360	AVX360	AVX360	AVX361	AVX361	AVX362	AVX362	AVX362
L	M,N	°,U,V	AVX358	AVX358	AVX359	AVX359	AVX359	AVX360	AVX360	AVX360	AVX361	AVX361	AVX362	AVX362	AVX362
L	°,M,N	W,Z	AVX359	AVX359	AVX359	AVX359	AVX359	AVX363	AVX363	AVX364	AVX364	AVX364	AVX364	AVX364	AVX364
L	O,P	°,U,V,W,Z	AVX359	AVX359	AVX359	AVX359	AVX359	AVX363	AVX363	AVX364	AVX364	AVX364	AVX364	AVX364	AVX364

Device for peak current reduction

Ver	0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
°,L	DRE501 (1)	DRE551 (1)	DRE601 (1)	DRE651 (1)	DRE701 (1)	DRE751 (1)	DRE801 (1)	DRE901 (1)	DRE1001 (1)	DRE1251 (1)	DRE1401 (1)	DRE1401 (1)	DRE1401 (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	0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
°,L	RIF98	RIF98	RIF95	RIF95	RIF95	RIF95	RIF95	RIF96	RIF97	RIF97	RIF97	RIF97	RIF97

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

CONFIGURATOR

Field	Description
1,2,3	NXP
4,5,6,7	Size 0500, 0550, 0600, 0650, 0700, 0750, 0800, 0900, 1000, 1250, 1400, 1500, 1650
8	Operating yield
°	Standard mechanic thermostatic valve
9	System type
2	2-pipe system
4	4-pipe system
10	Version
°	Standard
L	Standard silenced
11	Power supply
°	400V ~ 3 50Hz with magnet circuit breakers
4	220V ~ 3 50Hz with magnet circuit breakers (1)
5	500V ~ 3 50Hz with magnet circuit breakers (2)
12	Integrated hydronic kit, user side
°	Without hydronic kit
M	Single pump low head
N	Pump low head + stand-by pump
O	Single pump high head
P	Pump high head + stand-by pump
13	Integrated hydronic kit, recovery side
°	Without hydronic kit
U	Single pump low head
V	Pump low head + stand-by pump
W	Single pump high head
Z	Pump high head + stand-by pump

(1) Only for sizes from 0500 to 0700

(2) Only for sizes from 0800 to 1000

PERFORMANCE SPECIFICATIONS

NXP - 2-pipe system versions %/L

Size		0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
Cooling system side 2-pipe system (1)														
Cooling capacity	kW	108,9	117,0	141,5	157,5	192,7	218,5	252,2	281,0	305,8	345,2	392,3	447,2	502,4
Input power	kW	24,0	26,1	30,9	35,1	42,6	48,9	56,0	62,5	66,3	75,7	85,2	98,4	110,3
Cooling input current	A	47,0	50,0	58,0	65,0	84,0	90,0	92,0	101,0	106,0	135,0	149,0	169,0	188,0
EER	W/W	4,54	4,48	4,58	4,49	4,52	4,47	4,51	4,50	4,61	4,56	4,60	4,55	4,55
Water flow rate source side	l/h	22711	24436	29455	32877	40143	45586	52705	58706	63673	71963	81633	93177	104621
Pressure drop source side	kPa	33	37	41	50	59	69	28	34	26	32	36	45	49
Water flow rate system side	l/h	18734	20124	24349	27108	33155	37599	43386	48338	52596	59364	67464	76904	86389
Pressure drop system side	kPa	19	21	21	25	27	29	20	25	19	23	26	32	34
Heating system side 2-pipe system (2)														
Heating capacity	kW	122,4	131,0	158,2	175,7	210,0	238,7	289,0	320,9	352,6	383,7	433,5	489,5	549,4
Input power	kW	29,6	32,0	38,5	43,3	51,7	59,6	70,9	79,3	84,0	91,7	103,4	118,6	132,1
Heating input current	A	54,0	58,0	68,0	76,0	95,0	103,0	112,0	123,0	130,0	154,0	173,0	196,0	217,0
COP	W/W	4,13	4,09	4,11	4,05	4,06	4,00	4,08	4,05	4,20	4,18	4,19	4,13	4,16
Water flow rate source side	l/h	27209	29066	35169	38937	46642	52841	63935	70917	78660	85555	96778	108934	122632
Pressure drop source side	kPa	47	52	58	69	79	92	41	50	39	45	51	62	67
Water flow rate system side	l/h	21232	22726	27452	30476	36453	41427	50177	55720	61233	66632	75270	84987	95403
Pressure drop system side	kPa	25	27	27	32	32	36	27	33	25	29	32	39	42
Heating domestic hot water side 2-pipe system (3)														
Heating capacity	kW	124,5	133,2	161,0	178,8	213,6	242,8	293,3	325,1	354,8	390,1	439,8	496,5	558,6
Input power	kW	29,2	31,6	37,8	42,6	50,9	58,4	70,0	78,4	83,2	91,1	102,6	117,8	131,6
Heating total input current	A	54,0	57,0	67,0	75,0	95,0	103,0	110,0	122,0	129,0	153,0	171,0	194,0	216,0
COP	W/W	4,26	4,21	4,26	4,20	4,19	4,16	4,19	4,15	4,26	4,28	4,29	4,21	4,24
Water flow rate source side	l/h	27905	29767	36085	39952	47734	54174	65416	72379	79441	87568	98845	111238	125462
Pressure drop source side	kPa	37	42	41	50	53	58	42	50	38	46	52	66	70
Water flow rate domestic hot water side	l/h	21604	23109	27936	31015	37062	42149	50928	56446	61601	67743	76363	86215	96994
Pressure drop domestic hot water side	kPa	23	26	25	30	33	36	26	32	23	28	33	40	43
Simultaneous operation (heating + cooling), 2 pipes (4)														
Cooling capacity	kW	96,2	102,5	124,8	138,9	165,4	190,6	225,7	250,3	282,6	308,1	340,2	392,0	444,9
Recovered heating power	kW	123,3	131,9	160,0	178,4	212,6	244,6	290,8	322,7	360,1	392,6	435,1	500,6	566,0
Input power	kW	28,2	30,5	36,5	40,9	49,0	56,2	67,8	75,5	80,9	88,2	99,2	113,9	126,6
Water flow rate system side	l/h	18734	20124	24349	27108	33155	37599	43386	48338	52596	59364	67464	76904	86389
Pressure drop system side	kPa	19	21	21	25	27	29	20	25	19	23	26	32	34
Water flow rate domestic hot water side	l/h	21604	23109	27936	31015	37062	42149	50928	56446	61601	67743	76363	86215	96994
Pressure drop domestic hot water side	kPa	23	26	25	30	33	36	26	32	23	28	33	40	43

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C; All the units are Eurovent certified

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

(3) Water exchanger to the total recovery side 40 °C / 45 °C; Water source side 10 °C / 7 °C

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

NXP - 4-pipe system versions %/L

Size		0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
Cooling system side 4-pipe system (1)														
Cooling capacity	kW	108,9	117,0	141,5	154,5	192,7	218,5	252,2	281,0	305,8	345,2	392,3	447,2	502,4
Input power	kW	24,0	26,1	30,9	35,1	42,6	48,9	56,0	62,5	66,3	75,7	85,2	98,4	110,3
Cooling input current	A	47,0	50,0	58,0	65,0	84,0	90,0	92,0	101,0	106,0	135,0	149,0	169,0	188,0
EER	W/W	4,54	4,48	4,58	4,49	4,52	4,47	4,51	4,50	4,61	4,56	4,60	4,55	4,55
Water flow rate source side	l/h	22711	24436	29455	32877	40143	45586	52705	58706	63673	71963	81633	93177	104621
Pressure drop source side	kPa	33	37	41	50	59	69	28	34	26	32	36	45	49
Water flow rate system side	l/h	18734	20124	24349	27108	33155	37599	43386	48338	52596	59364	67464	76904	86389
Pressure drop system side	kPa	19	21	21	25	27	29	20	25	19	23	26	32	34
Heating system side 4-pipe system (2)														
Heating capacity	kW	124,5	133,2	161,0	178,8	213,6	242,8	293,3	325,1	354,8	390,1	439,8	496,5	558,6
Input power	kW	29,2	31,6	37,8	42,6	50,9	58,4	70,0	78,4	83,2	91,1	102,6	117,8	131,6
Heating total input current	A	54,0	57,0	67,0	75,0	95,0	103,0	110,0	122,0	129,0	153,0	171,0	194,0	216,0
COP	W/W	4,26	4,21	4,26	4,20	4,19	4,16	4,19	4,15	4,26	4,28	4,29	4,21	4,24
Water flow rate source side	l/h	27905	29767	36085	39952	47734	54174	65416	72379	79441	87568	98845	111238	125462
Pressure drop source side	kPa	37	42	41	50	53	58	42	50	38	46	52	66	70
Water flow rate system side	l/h	21604	23109	27936	31015	37062	42149	50928	54446	61601	67743	76363	86215	96994
Pressure drop system side	kPa	23	26	25	30	33	36	26	32	23	28	33	40	43
Simultaneous operation (heating + cooling), 4 pipes (3)														
Cooling capacity	kW	96,2	102,5	124,8	138,9	165,4	190,6	225,7	250,3	282,6	308,1	340,2	392,0	444,9
Recovered heating power	kW	123,3	131,9	160,0	178,4	212,6	244,6	290,8	322,7	360,1	392,6	435,1	500,6	566,0
Input power	kW	28,2	30,5	36,5	40,9	49,0	56,2	67,8	75,5	80,9	88,2	99,2	113,9	126,6
Water flow rate cold side	l/h	18734	20124	24349	27108	33155	37599	43386	48338	52596	59364	67464	76904	86389
Pressure drop cold side	kPa	19	21	21	25	27	29	20	25	19	23	26	32	34
Water flow rate hot side	l/h	21604	23109	27936	31015	37062	42149	50928	56446	61601	67743	76363	86215	96944

Size		0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
Pressure drop hot side	kPa	23	26	25	30	33	36	26	32	23	28	33	40	43

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C; All the units are Eurovent certified

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

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

ENERGY INDICES (REG. 2016/2281 EU)

Size			0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
SEER - 12/7 (EN14825:2018) (1)															
SEER	°L	W/W	5,25	5,44	5,52	5,43	5,52	5,39	5,61	5,82	6,09	6,00	6,05	6,43	6,45
Seasonal efficiency	°L	%	207,0%	214,6%	217,8%	214,2%	217,8%	212,6%	221,4%	229,9%	240,5%	237,1%	239,1%	254,2%	254,9%
SEPR - (EN 14825:2018) High temperature (2)															
SEPR	°L	W/W	-	-	-	-	-	-	-	7,08	7,30	7,21	7,23	-	-
UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ° 400 kW (3)															
Pdesignh	°L	kW	163	173	212	234	280	318	385	-	-	-	-	-	-
SCOP	°L		4,78	4,68	4,78	4,65	4,65	4,58	4,73	-	-	-	-	-	-
ηsh	°L	%	183.0%	179.0%	183.0%	178.0%	178.0%	175.0%	181.0%	-	-	-	-	-	-
Energy index															
TER	°L	W/W	7,77	7,68	7,80	7,75	7,71	7,75	7,62	7,59	7,94	7,94	7,82	7,87	7,99

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

(2) Calculation performed with FIXED water flow rate.

(3) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

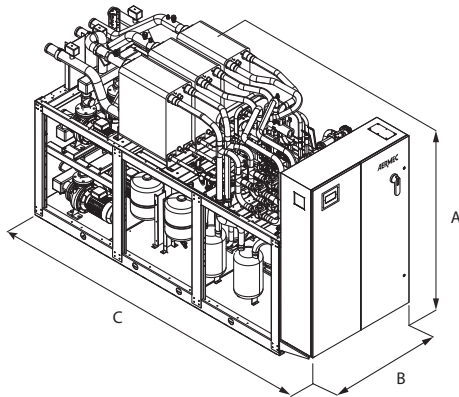
Size			0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
Electric data															
Maximum current (FLA)	°L	A	71,0	77,0	91,0	102,0	124,0	135,0	163,0	179,0	195,0	208,0	237,0	266,0	295,0
Peak current (LRA)	°L	A	214,0	220,0	206,0	216,0	267,0	323,0	332,0	340,0	356,0	459,0	488,0	600,0	629,0

GENERAL TECHNICAL DATA

Size			0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
Compressor															
Type	°L	type							Scroll						
Number	°L	no.	3	3	4	4	4	4	4	4	4	4	4	4	4
Circuits	°L	no.	2	2	2	2	2	2	2	2	2	2	2	2	2
Refrigerant	°L	type							R410A						
2-pipe system - System side heat exchanger (hot/cold)															
Type	°L	type							Brazed plate						
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°L	Type							Grooved joints						
Sizes (in/out)	°L	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"	3"	3"
2-pipe system - Recovery side heat exchanger (domestic hot water)															
Type	°L	type							Brazed plate						
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°L	Type							Grooved joints						
Sizes (in/out)	°L	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"	3"	3"
4-pipe system - System side heat exchanger (cold side)															
Type	°L	type							Brazed plate						
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°L	Type							Grooved joints						
Sizes (in/out)	°L	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"	3"	3"
4-pipe system - Recovery side heat exchanger (hot side)															
Type	°L	type							Brazed plate						
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°L	Type							Grooved joints						
Sizes (in/out)	°L	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"	3"	3"
Sound data calculated in cooling mode (1)															
Sound power level	°	dB(A)	78,0	79,0	79,0	80,0	82,0	86,0	88,0	88,0	88,0	90,0	90,0	92,0	92,0
	L	dB(A)	72,0	73,0	73,0	74,0	76,0	80,0	82,0	82,0	82,0	84,0	84,0	86,0	86,0
Sound pressure level (10 m)	°	dB(A)	46,0	47,0	47,0	48,0	50,0	54,0	56,0	56,0	56,0	58,0	58,0	60,0	60,0
	L	dB(A)	40,0	41,0	41,0	42,0	44,0	48,0	50,0	50,0	50,0	52,0	52,0	54,0	54,0

(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			0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
Dimensions and weights															
A	°	mm	1976	1976	1976	1976	1976	1976	2021	2021	2021	2021	2021	2021	2021
	L	mm	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120
B	°L	mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
C	°L	mm	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
Dimensions and weights with pump/s															
A	°	mm	1976	1976	1976	1976	1976	1976	2021	2021	2021	2021	2021	2021	2021
	L	mm	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120
B	°L	mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
C	°	mm	3452	3452	3452	3452	3452	3452	3452	3452	3750	3750	3750	3750	3750
	L	mm	3452	3452	3452	3452	3452	3750	3750	3750	3750	3750	2600	2600	2600

Version			Integrated hydronic kit, user side	Integrated hydronic kit, recovery side	0500	0550	0600	0650	0700	0750	0800	0900	1000	1250	1400	1500	1650
Empty weight	°	°	°	kg	990	1000	1110	1130	1180	1380	1680	1700	1890	1960	2060	2100	2270
	°	°	U/V	kg	1230	1240	1360	1380	1450	1690	1960	2060	2310	2380	2500	2540	2720
	°	M/N	°/U/V	kg	1230	1240	1360	1380	1450	1690	1960	2060	2310	2380	2500	2540	2720
	°	°/M/N	W/Z	kg	1340	1350	1490	1500	1600	1880	2110	2300	2560	2630	2770	2810	3010
	°	O/P	°/U/V/W/Z	kg	1340	1350	1490	1500	1600	1880	2110	2300	2560	2630	2770	2810	3010
	L	°	°	kg	1230	1230	1340	1360	1420	1570	1910	1930	2120	2190	2270	2400	2500
	L	°	U/V	kg	1560	1570	1690	1710	1780	2020	2290	2390	2660	2730	2850	2890	3070
	L	M/N	°/U/V	kg	1560	1570	1690	1710	1780	2020	2290	2390	2660	2730	2850	2890	3070
	L	°/M/N	W/Z	kg	1670	1680	1820	1830	1930	2210	2240	2630	2910	2980	3120	3160	3360
	L	O/P	°/U/V/W/Z	kg	1670	1680	1820	1830	1930	2210	2240	2630	2910	2980	3120	3160	3360

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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