

# NRP 0804-2406

## Air-water multipurpose

Cooling capacity 207 ÷ 639 kW  
Heating capacity 208 ÷ 662 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 galvanized steel treated with polyester paint RAL 9003.

### VERSIONS

- A High efficiency
- E Silenced high efficiency

### FEATURES

#### Operating field

Working at full load up to -15 °C outside air temperature in winter, and up to 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.*

### CONTROL PCO<sup>5</sup>

- 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.
- AERBACP:** Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP
- 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\_:** Anti-intrusion grid kit
- BRC1:** Condensate drip tray. Consider 1 for each V-block.

## ACCESSORIES COMPATIBILITY

Model	Ver	0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
AER485P1	A,E	.	.	.	.	.	.	.	.	.	.	.
AERBACP	A,E	.	.	.	.	.	.	.	.	.	.	.
AERNET	A,E	.	.	.	.	.	.	.	.	.	.	.
FL	A,E	.	.	.	.	.	.	.	.	.	.	.
MULTICHILLER_EVO	A,E	.	.	.	.	.	.	.	.	.	.	.
PGD1	A,E	.	.	.	.	.	.	.	.	.	.	.

### Antivibration

		0804	0904	1004	1104	1204	1414	1604	1805	2006
A	IDR IMP									
	IDR REC									
	00	AVX882	AVX887	AVX887	AVX887	AVX887	AVX871	AVX871	AVX875	AVX875
	PA-DJ	00	AVX886	AVX887	AVX887	AVX887	AVX872	AVX872	AVX875	AVX884
	00	RA-SJ	AVX886	AVX887	AVX887	AVX887	AVX883	AVX873	AVX873	AVX876
PA-DJ	RA-SJ	AVX870	AVX883	AVX883	AVX883	AVX883	AVX874	AVX874	AVX876	AVX884
E	00	AVX886	AVX871	AVX871	AVX871	AVX871	AVX875	AVX877	AVX878	AVX878
	PA-DJ	00	AVX886	AVX872	AVX872	AVX872	AVX875	AVX877	AVX878	AVX865
	00	RA-SJ	AVX870	AVX873	AVX873	AVX873	AVX876	AVX877	AVX865	AVX865
	PA-DJ	RA-SJ	AVX870	AVX874	AVX874	AVX874	AVX874	AVX877	AVX879	AVX865
			2206	2406						
A	IDR IMP									
	IDR REC									
	00	AVX877	AVX877							
	PA-DJ	00	AVX877	AVX885						
	00	RA-SJ	AVX885	AVX885						
PA-DJ	RA-SJ	AVX885	AVX885							
E	00	AVX866	AVX866							
	PA-DJ	00	AVX866	AVX866						
	00	RA-SJ	AVX867	AVX867						
	PA-DJ	RA-SJ	AVX867	AVX867						

### Device for peak current reduction

Ver	0804	0904	1004	1104	1204	1414
A,E	DRENRP0804	DRENRP0904	DRENRP1004	DRENRP1104	DRENRP1204 (1)	DRENRP1404 (2)

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

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

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

Ver	1604	1805	2006	2206	2406
A,E	DRENRP1604 (1)	DRENRP1805	DRENRP2006	DRENRP2206	DRENRP2406

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

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

### Power factor correction

Ver	0804	0904	1004	1104	1204	1414
A	RIFNRP0804A	RIFNRP0904A	RIFNRP1004A	RIFNRP1104A	RIFNRP1204A	RIFNRP1404
E	RIFNRP0804E	RIFNRP0904E	RIFNRP1004E	RIFNRP1104E	RIFNRP1204E	RIFNRP1404

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

Ver	1604	1805	2006	2206	2406
A,E	RIFNRP1604	RIFNRP1805	RIFNRP2006	RIFNRP2206	RIFNRP2406

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

### Anti-intrusion grid

Ver	0804	0904	1004	1104	1204	1414
A	GP2VN	GP3VN	GP3VN	GP3VN	GP3VN	GP4VN
E	GP3VN	GP4VN	GP4VN	GP4VN	GP4VN	GP5VN

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

Ver	1604	1805	2006	2206	2406
A	GP4VN	GP5VN	GP5G	GP6V	GP6V
E	GP6V	GP7V	GP7V	GP8V	GP8V

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

Ver	0804	0904	1004	1104	1204	1414
A,E	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	1604	1805	2006	2206	2406
A,E	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

## CONFIGURATOR

Field	Description
<b>1,2,3</b>	<b>NRP</b>
<b>4,5,6,7</b>	<b>Size</b> 0804, 0904, 1004, 1104, 1204, 1414, 1604, 1805, 2006, 2206, 2406
<b>8</b>	<b>Version</b>
A	High efficiency (1)
E	Silenced high efficiency
<b>9</b>	<b>System type</b>
2	2-pipe system
4	4-pipe system
<b>10</b>	<b>Coils</b>
°	Copper-aluminium
R	Copper pipes-copper fins
S	Copper pipes-Tinned copper fins
V	Copper pipes-Coated aluminium fins
<b>11</b>	<b>Fans</b>
°	AC standard
J	EC Inverter motors
<b>12</b>	<b>Power supply</b>
°	400V ~ 3 50Hz with magnet circuit breakers
<b>13,14</b>	<b>System side - pumps</b>
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

Field	Description
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
<b>15,16</b>	<b>Recovery side - pumps</b>
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
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

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

## PERFORMANCE SPECIFICATIONS

### NRP - 2-pipe system version A

Size		0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Cooling system side 2-pipe system (1)</b>												
Cooling capacity	kW	206,7	230,6	259,2	299,6	332,2	386,3	426,2	490,5	544,3	598,2	638,8
Input power	kW	69,4	76,3	86,1	99,5	116,2	128,1	146,7	165,5	189,8	202,0	220,3
Cooling total input current	A	124,0	138,0	155,0	172,0	195,0	218,0	247,0	280,0	319,0	341,0	371,0
EER	W/W	2,98	3,02	3,01	3,01	2,86	3,02	2,91	2,96	2,87	2,96	2,90
Water flow rate system side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611	102896	109845
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54	64	47
<b>Heating system side 2-pipe system (2)</b>												
Heating capacity	kW	209,9	246,0	272,7	306,2	340,5	396,2	437,6	504,8	562,7	618,6	660,8
Input power	kW	66,8	79,6	85,5	95,7	107,8	125,7	136,8	159,6	180,8	199,7	209,7
Heating total input current	A	120,0	143,0	154,0	166,0	183,0	214,0	233,0	272,0	306,0	337,0	356,0
COP	W/W	3,14	3,09	3,19	3,20	3,16	3,15	3,20	3,16	3,11	3,10	3,15
Water flow rate system side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701	107407	114743
Pressure drop system side	kPa	25	34	39	50	41	52	35	47	51	62	47
<b>Heating domestic hot water side 2-pipe system (3)</b>												
Heating capacity	kW	209,9	246,0	272,7	306,2	340,6	396,2	437,6	504,9	562,7	618,7	660,8
Input power	kW	66,9	79,8	85,6	95,7	108,3	125,4	137,0	159,8	180,9	199,9	209,9
Heating total input current	A	120,0	143,0	154,0	166,0	183,0	214,0	233,0	272,0	306,0	337,0	356,0
COP	W/W	3,14	3,08	3,19	3,20	3,15	3,16	3,19	3,16	3,11	3,10	3,15
Water flow rate domestic hot water side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701	107407	114743
Pressure drop domestic hot water side	kPa	34	47	39	49	61	42	44	53	55	66	50
<b>Simultaneous operation (heating + cooling), 2 pipes (4)</b>												
Cooling capacity	kW	211,2	236,7	258,2	306,9	350,5	398,0	446,2	510,6	584,4	630,2	680,0
Recovered heating power	kW	270,3	304,4	331,0	392,1	448,5	510,5	570,1	653,9	749,6	810,9	871,0
Input power	kW	62,8	72,4	77,7	91,3	105,2	120,2	132,4	153,7	177,2	194,7	204,6
TER	W/W	7,67	7,48	7,58	7,66	7,60	7,56	7,68	7,58	7,53	7,40	7,58
Water flow rate system side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611	102896	109845
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54	64	47
Water flow rate domestic hot water side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701	107407	114743
Pressure drop domestic hot water side	kPa	34	47	39	49	61	42	44	53	55	66	50

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

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

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

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

### NRP - 2-pipe system version E

Size		0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Cooling system side 2-pipe system (1)</b>												
Cooling capacity	kW	200,7	225,7	255,3	296,9	332,7	382,2	427,0	487,6	549,9	598,5	639,4
Input power	kW	66,0	73,4	83,2	96,4	113,0	125,6	139,1	159,0	182,6	195,9	214,0
Cooling total input current	A	113,0	125,0	142,0	159,0	182,0	203,0	225,0	256,0	294,0	315,0	344,0
EER	W/W	3,04	3,07	3,07	3,08	2,94	3,04	3,07	3,07	3,01	3,05	2,99
Water flow rate system side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585	102947	109954
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54	64	48
<b>Heating system side 2-pipe system (2)</b>												
Heating capacity	kW	207,4	240,7	262,4	300,7	338,4	389,4	436,7	503,3	567,2	618,5	661,8
Input power	kW	63,8	74,6	80,5	92,8	104,9	121,1	134,3	155,5	181,7	199,3	209,7
Heating total input current	A	109,0	126,0	136,0	153,0	170,0	195,0	217,0	250,0	293,0	320,0	338,0
COP	W/W	3,25	3,22	3,26	3,24	3,23	3,22	3,25	3,24	3,12	3,10	3,16
Water flow rate system side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488	107379	114913
Pressure drop system side	kPa	25	33	37	48	40	50	35	46	52	62	47
<b>Heating domestic hot water side 2-pipe system (3)</b>												
Heating capacity	kW	207,3	240,7	262,4	300,7	338,5	389,4	436,8	503,3	567,3	618,5	661,8
Input power	kW	64,0	74,8	80,5	92,8	105,4	120,8	134,6	155,7	181,9	199,5	209,9
Heating total input current	A	109,0	126,0	136,0	153,0	170,0	195,0	217,0	250,0	293,0	320,0	338,0
COP	W/W	3,24	3,22	3,26	3,24	3,21	3,22	3,24	3,23	3,12	3,10	3,15
Water flow rate domestic hot water side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488	107379	114913
Pressure drop domestic hot water side	kPa	34	45	38	48	60	41	44	53	55	66	50
<b>Simultaneous operation (heating + cooling), 2 pipes (4)</b>												
Cooling capacity	kW	211,0	236,8	258,3	306,6	350,0	397,8	445,0	509,9	583,9	630,2	679,9
Recovered heating power	kW	270,0	304,5	331,0	391,9	448,2	510,5	569,2	653,4	749,1	810,9	871,0
Input power	kW	62,8	72,3	77,6	91,4	105,3	120,3	132,7	153,9	177,3	194,7	204,7
TER	W/W	7,66	7,49	7,59	7,64	7,58	7,55	7,64	7,56	7,52	7,40	7,58
Water flow rate system side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585	102947	109954
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54	64	48
Water flow rate domestic hot water side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488	107379	114913
Pressure drop domestic hot water side	kPa	34	45	38	48	60	41	44	53	55	66	50

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

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

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

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

## NRP - 4-pipe system version A

Size		0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Cooling system side 4-pipe system (1)</b>												
Cooling capacity	kW	206,7	230,6	259,2	299,6	332,2	386,3	426,2	490,5	544,3	598,2	638,8
Input power	kW	69,4	76,3	86,1	99,5	116,2	128,1	146,7	165,5	189,8	202,0	220,3
Cooling total input current	A	124,0	138,0	155,0	172,0	195,0	218,0	247,0	280,0	319,0	341,0	371,0
EER	W/W	2,98	3,02	3,01	3,01	2,86	3,02	2,91	2,96	2,87	2,96	2,90
Water flow rate system side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611	102896	109845
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54	64	47
<b>Heating system side 4-pipe system (2)</b>												
Heating capacity	kW	209,9	246,0	272,7	306,2	340,6	396,2	437,6	504,9	562,7	618,7	660,8
Input power	kW	66,9	79,8	85,6	95,7	108,3	125,4	137,0	159,8	180,9	199,9	209,9
Heating total input current	A	120,0	143,0	154,0	166,0	183,0	214,0	233,0	272,0	306,0	337,0	356,0
COP	W/W	3,14	3,08	3,19	3,20	3,15	3,16	3,19	3,16	3,11	3,10	3,15
Water flow rate system side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701	107407	114743
Pressure drop system side	kPa	34	47	39	49	61	42	44	53	55	66	50
<b>Simultaneous operation (heating + cooling), 4 pipes (3)</b>												
Cooling capacity	kW	211,2	236,7	258,2	306,9	350,5	398,0	446,2	510,6	584,4	630,2	680,0
Recovered heating power	kW	270,3	304,4	331,0	392,1	448,5	510,5	570,1	653,9	749,6	810,9	871,0
Input power	kW	62,8	72,4	77,7	91,3	105,2	120,2	132,4	153,7	177,2	194,7	204,6
TER	W/W	7,67	7,48	7,58	7,66	7,60	7,56	7,68	7,58	7,53	7,40	7,58
Water flow rate cold side	l/h	35565	39671	44593	51536	57151	66430	73295	84370	93611	102896	109845
Pressure drop cold side	kPa	24	33	34	42	43	36	36	49	54	64	47
Water flow rate hot side	l/h	36426	42701	47339	53155	59117	68781	75976	87653	97701	107407	114743
Pressure drop hot side	kPa	34	47	39	49	61	42	44	53	55	66	50

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

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

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

## NRP - 4-pipe system version E

Size		0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Cooling system side 4-pipe system (1)</b>												
Cooling capacity	kW	200,7	225,7	255,3	296,9	332,7	382,2	427,0	487,6	549,9	598,5	639,4
Input power	kW	66,0	73,4	83,2	96,4	113,0	125,6	139,1	159,0	182,6	195,9	214,0
Cooling total input current	A	113,0	125,0	142,0	159,0	182,0	203,0	225,0	256,0	294,0	315,0	344,0
EER	W/W	3,04	3,07	3,07	3,08	2,94	3,04	3,07	3,07	3,01	3,05	2,99
Water flow rate system side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585	102947	109954
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54	64	48
<b>Heating system side 4-pipe system (2)</b>												
Heating capacity	kW	207,3	240,7	262,4	300,7	338,5	389,4	436,8	503,3	567,3	618,5	661,8
Input power	kW	64,0	74,8	80,5	92,8	105,4	120,8	134,6	155,7	181,9	199,5	209,9
Heating total input current	A	109,0	126,0	136,0	153,0	170,0	195,0	217,0	250,0	293,0	320,0	338,0
COP	W/W	3,24	3,22	3,26	3,24	3,21	3,22	3,24	3,23	3,12	3,10	3,15
Water flow rate system side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488	107379	114913
Pressure drop system side	kPa	34	45	38	48	60	41	44	53	55	66	50
<b>Simultaneous operation (heating + cooling), 4 pipes (3)</b>												
Cooling capacity	kW	211,0	236,8	258,3	306,6	350,0	397,8	445,0	509,9	583,9	630,2	679,9
Recovered heating power	kW	270,0	304,5	331,0	391,9	448,2	510,5	569,2	653,4	749,1	810,9	871,0
Input power	kW	62,8	72,3	77,6	91,4	105,3	120,3	132,7	153,9	177,3	194,7	204,7
TER	W/W	7,66	7,49	7,59	7,64	7,58	7,55	7,64	7,56	7,52	7,40	7,58
Water flow rate cold side	l/h	34534	38826	43915	51070	57226	65736	73434	83856	94585	102947	109954
Pressure drop cold side	kPa	25	33	34	43	44	37	38	49	54	64	48
Water flow rate hot side	l/h	35981	41776	45554	52195	58753	67603	75830	87384	98488	107379	114913
Pressure drop hot side	kPa	34	45	38	48	60	41	44	53	55	66	50

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

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

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

## ENERGY DATA

Size		0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Fans: °</b>												
<b>Cooling capacity with low leaving water temp (UE n° 2016/2281)</b>												
SEER	A	W/W	3,94	4,04	4,00	3,89	4,03	4,14	4,21	4,23	4,24	4,25
	E	W/W	4,22	4,30	4,21	4,08	4,12	4,25	4,24	4,28	4,27	4,28
η <sub>sc</sub>	A	%	154,60	158,50	156,90	152,80	158,20	162,50	165,50	166,00	166,60	166,80
	E	%	166,00	169,00	165,40	160,10	161,70	167,00	166,80	168,20	167,80	168,20
<b>UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesign ≤ 400 kW (1)</b>												
SCOP	A	W/W	3,53	3,27	3,44	3,49	3,60	3,53	3,66	-	-	-
	E	W/W	3,71	3,59	3,69	3,70	3,82	3,70	3,75	-	-	-
η <sub>sh</sub>	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) Efficiencies for low temperature applications (35 °C)

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Fans: J</b>													
<b>Cooling capacity with low leaving water temp (UE n° 2016/2281)</b>													
SEER	A	W/W	4,25	4,36	4,32	4,21	4,35	4,47	4,55	4,56	4,58	4,58	4,59
	E	W/W	4,56	4,64	4,55	4,40	4,45	4,59	4,58	4,62	4,61	4,62	4,62
ηsc	A	%	167,20	171,40	169,70	165,20	171,10	175,80	179,00	179,50	180,10	180,20	180,40
	E	%	179,50	182,80	178,80	173,10	174,90	180,60	180,30	181,80	181,50	181,90	181,70
<b>UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 400 kW (1)</b>													
SCOP	A	W/W	3,53	3,27	3,44	3,49	3,60	3,53	3,66	-	-	-	-
	E	W/W	3,71	3,59	3,69	3,70	3,82	3,70	3,75	-	-	-	-
ηsh	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) Efficiencies for low temperature applications (35 °C)

## ELECTRIC DATA

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Electric data</b>													
Maximum current (FLA)	A	A	163,0	188,0	205,0	233,0	261,0	303,0	337,0	386,0	427,0	468,0	502,0
	E	A	170,0	196,0	213,0	241,0	269,0	311,0	352,0	401,0	442,0	484,0	518,0
Peak current (LRA)	A	A	368,0	431,0	449,0	485,0	513,0	636,0	670,0	638,0	679,0	801,0	835,0
	E	A	376,0	439,0	456,0	493,0	521,0	644,0	685,0	653,0	694,0	817,0	851,0

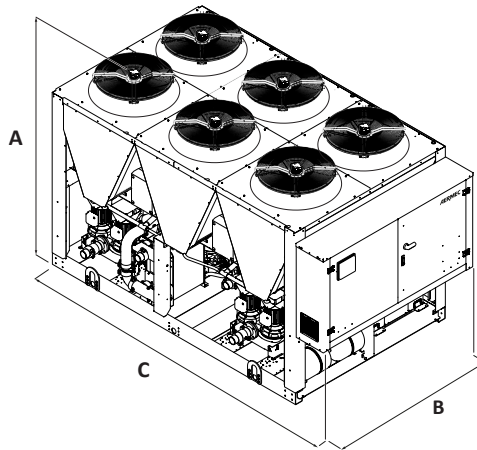
## GENERAL TECHNICAL DATA

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Compressor</b>													
Type	A,E	type	Scroll										
Number	A,E	no.	4	4	4	4	4	4	4	5	6	6	6
Circuits	A,E	no.	2	2	2	2	2	2	2	2	2	2	2
Refrigerant	A,E	type	R410A										
Potential global heating	A,E	GWP	2088kgCO <sub>2</sub> eq										
Refrigerant charge (1)	A	kg	41,1	61,0	61,4	62,7	62,8	83,6	83,6	106,1	107,6	129,2	129,2
	E	kg	61,0	80,8	81,2	82,9	83,0	103,9	124,1	147,2	149,3	170,9	170,9
<b>2-pipe system - System side heat exchanger (hot/cold)</b>													
Type	A,E	type	Braze plate										
Number	A,E	no.	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	Type	Grooved joints										
Size (in)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"
Size (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"
<b>2-pipe system - Recovery side heat exchanger (domestic hot water)</b>													
Type	A,E	type	Braze plate										
Number	A,E	no.	2	2	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"	4"	5"
Manifold diameter (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"
<b>4-pipe system - System side heat exchanger (cold side)</b>													
Type	A,E	type	Braze plate										
Number	A,E	no.	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	A,E	Type	Grooved joints										
Size (in)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"
Size (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"
<b>4-pipe system - Recovery side heat exchanger (hot side)</b>													
Type	A,E	type	Braze plate										
Number	A,E	no.	2	2	2	2	2	2	2	2	2	2	2
Manifold connection (in/out)	A,E	Type	Grooved joints										
Manifold diameter (in)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"
Manifold diameter (out)	A,E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"
<b>Fan</b>													
Type	A,E	type	Axial										
Fan motor	A,E	type	On-Off										
Number	A	no.	4	6	6	6	6	8	8	10	10	12	12
	E	no.	6	8	8	8	8	10	12	14	14	16	16
Air flow rate	A	m <sup>3</sup> /h	80000	120000	120000	120000	120000	160000	160000	200000	200000	240000	240000
	E	m <sup>3</sup> /h	80000	110000	110000	110000	110000	130000	160000	180000	180000	210000	210000
<b>Sound data calculated in cooling mode (2)</b>													
Sound power level	A	dB(A)	89,5	91,6	91,6	91,6	91,6	93,1	93,1	94,2	94,2	95,1	95,1
	E	dB(A)	84,6	86,1	86,1	86,1	86,1	87,2	88,2	89,4	89,9	91,1	91,6

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

(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			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
<b>Dimensions and weights</b>													
A	A,E	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	A,E	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	A	mm	2780	3970	3970	3970	3970	4760	4760	5950	6350	7140	7140
	E	mm	3970	4760	4760	4760	4760	5950	7140	8330	8330	9520	9520
<b>Size</b>			<b>0804</b>	<b>0904</b>	<b>1004</b>	<b>1104</b>	<b>1204</b>	<b>1414</b>	<b>1604</b>	<b>1805</b>	<b>2006</b>	<b>2206</b>	<b>2406</b>
<b>System type: 2</b>													
<b>Weights</b>													
Empty weight	A	kg	2642	3152	3262	3452	3722	4409	4569	5419	5829	6479	6756
	E	kg	3072	3712	3822	4012	4282	4879	5449	6359	6789	7469	7736
<b>Size</b>			<b>0804</b>	<b>0904</b>	<b>1004</b>	<b>1104</b>	<b>1204</b>	<b>1414</b>	<b>1604</b>	<b>1805</b>	<b>2006</b>	<b>2206</b>	<b>2406</b>
<b>System type: 4</b>													
<b>Weights</b>													
Empty weight	A	kg	2632	3132	3252	3442	3692	4379	4539	5389	5799	6449	6716
	E	kg	3052	3692	3812	4002	4252	4849	5419	6319	6759	7429	7706

*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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