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^5

Microprocessor control, with keyboard and LCD display, for easy access on the unit with a menu available in several languages.
— Possibility to control two units in a Master-Slave configuration
— The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
— The temperature control takes place with the integral proportional logic, based on the water output temperature.
— **Night mode:** only in the **non-silenced** versions is it possible to set a silenced operating mode, which is useful for example at night for greater acoustic comfort but always guarantees performance even at peak load times.

ACCESSORIES

AER485P1: RS-485 interface for supervising systems with MODBUS protocol. 1 accessory is provided for each unit control board.
AERBAC-ONE: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols, HTTPS protocol for web interface, encrypted communication protocols and access credential management in accordance with the latest standards. One accessory is provided for each unit control board.
AERBACP: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols. 1 accessory is provided for each unit control board.
AERNET: The device remotely controls, manages and remotely monitors a chiller/heat pump using a PC, smartphone or table via a Cloud connection. AERNET acts as Master while each connected unit is configured as Slave up to a maximum of 6 control cards. The connection is made via cable and/or USB key. Wi-Fi connectivity is not available. It is also possible to save a log file with all the data from the connected units to your terminal with a simple click for possible post-analysis. With the purchase of the Router, the Customer benefits from a 24-month free period during which he can use the Aernet Service at no additional cost. At the end of this initial period, the Service may be renewed by subscribing to a 1, 2 or 3 year subscription. For further

details on costs and renewal methods, please contact our office or consult the technical documentation available on our website. www.aermec.com.
FL: Flow switch.
MULTICHILLER-EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel (max. no. 9), always ensuring constant flow rate to the evaporators.
PGD1: Allows you to control the unit at a distance.
SGD: Electronic expansion that enables connecting to the photovoltaic system and heat pumps to accumulate heat in the DHW tank or in the heating system during the photovoltaic production phase and release it at times when heating demand is highest.

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	•	•	•	•	•	•	•	•	•	•	•
AERBAC-ONE	A,E	•	•	•	•	•	•	•	•	•	•	•
AERBACP	A,E	•	•	•	•	•	•	•	•	•	•	•
AERNET	A,E	•	•	•	•	•	•	•	•	•	•	•
FL	A,E	•	•	•	•	•	•	•	•	•	•	•
MULTICHILLER-EVO	A,E	•	•	•	•	•	•	•	•	•	•	•
PGD1	A,E	•	•	•	•	•	•	•	•	•	•	•
SGD	A,E	•	•	•	•	•	•	•	•	•	•	•

			0804	0904	1004	1104	1204	1414
	IDR IMP	IDR REC						
	00	00	AVX882	AVX887	AVX887	AVX887	AVX887	AVX871
A	PA-DJ	00	AVX886	AVX887	AVX887	AVX887	AVX887	AVX872
	00	RA-SJ	AVX886	AVX887	AVX887	AVX887	AVX883	AVX873
	PA-DJ	RA-SJ	AVX870	AVX883	AVX883	AVX883	AVX883	AVX874
	00	00	AVX886	AVX871	AVX871	AVX871	AVX871	AVX875
E	PA-DJ	00	AVX886	AVX872	AVX872	AVX872	AVX872	AVX875
	00	RA-SJ	AVX870	AVX873	AVX873	AVX873	AVX873	AVX876
	PA-DJ	RA-SJ	AVX870	AVX874	AVX874	AVX874	AVX874	AVX876

			1604	1805	2006	2206	2406
	IDR IMP	IDR REC					
	00	00	AVX871	AVX875	AVX875	AVX877	AVX877
A	PA-DJ	00	AVX872	AVX875	AVX884	AVX877	AVX885
	00	RA-SJ	AVX873	AVX876	AVX876	AVX885	AVX885
	PA-DJ	RA-SJ	AVX874	AVX876	AVX884	AVX885	AVX885
	00	00	AVX877	AVX878	AVX878	AVX866	AVX866
E	PA-DJ	00	AVX877	AVX878	AVX865	AVX866	AVX866
	00	RA-SJ	AVX877	AVX865	AVX865	AVX867	AVX867
	PA-DJ	RA-SJ	AVX877	AVX879	AVX865	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
1,2,3		**NRP**
4,5,6,7		**Size** 0804, 0904, 1004, 1104, 1204, 1414, 1604, 1805, 2006, 2206, 2406
8		**Version**
	A	High efficiency (1)
	E	Silenced high efficiency
9		**System type**
	2	2-pipe system
	4	4-pipe system
10		**Coils**
	R	Copper pipes-copper fins
	V	Copper pieps-Coated aluminium fins
	°	Copper-aluminium
11		**Fans**
	J	EC Inverter motors
	°	AC standard
12		**Power supply**
	°	400V ~ 3 50Hz with magnet circuit breakers
13,14		**System side - pumps**
	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
	PC	Pump C
	PD	Pump D
	PE	Pump E
	PF	Pump F
	PG	Pump G
	PH	Pump H
	PI	Pump I
15,16		**Recovery side - pumps**
	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
Cooling system side 2-pipe system (1)												
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	124,00	138,00	155,00	172,00	195,00	218,00	247,00	280,00	319,00	341,00	371,00
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	35.565	39.671	44.593	51.536	57.151	66.430	73.295	84.370	93.611	102.896	109.845
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54	64	47
2-pipe system side heating (A7°C/W40-45°C) (2)												
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	120,00	143,00	154,00	166,00	183,00	214,00	233,00	272,00	306,00	337,00	356,00
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	36.426	42.701	47.339	53.155	59.117	68.781	75.976	87.653	97.701	107.407	114.743
Pressure drop system side	kPa	25	34	39	50	41	52	35	47	51	62	47
2-pipe sanitary side heating (A7°C/W40-45°C) (3)												
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	120,00	143,00	154,00	166,00	183,00	214,00	233,00	272,00	306,00	337,00	356,00
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	36.426	42.701	47.339	53.155	59.117	68.781	75.976	87.653	97.701	107.407	114.743
Pressure drop domestic hot water side	kPa	34	47	39	49	61	42	44	53	55	66	50
Simultaneous operation (heating + cooling), 2 pipes (W*-45°C / W*-7°C) (4)												
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	35.565	39.671	44.593	51.536	57.151	66.430	73.295	84.370	93.611	102.896	109.845
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	36.426	42.701	47.339	53.155	59.117	68.781	75.976	87.653	97.701	107.407	114.743
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
Cooling system side 2-pipe system (1)												
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	113,00	125,00	142,00	159,00	182,00	203,00	225,00	256,00	294,00	315,00	344,00
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	34.534	38.826	43.915	51.070	57.226	65.736	73.434	83.856	94.585	102.947	109.954
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54	64	48
2-pipe system side heating (A7°C/W40-45°C) (2)												
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	109,00	126,00	136,00	153,00	170,00	195,00	217,00	250,00	293,00	320,00	338,00
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	35.981	41.776	45.554	52.195	58.753	67.603	75.830	87.384	98.488	107.379	114.913
Pressure drop system side	kPa	25	33	37	48	40	50	35	46	52	62	47
2-pipe sanitary side heating (A7°C/W40-45°C) (3)												
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	109,00	126,00	136,00	153,00	170,00	195,00	217,00	250,00	293,00	320,00	338,00
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	35.981	41.776	45.554	52.195	58.753	67.603	75.830	87.384	98.488	107.379	114.913
Pressure drop domestic hot water side	kPa	34	45	38	48	60	41	44	53	55	66	50
Simultaneous operation (heating + cooling), 2 pipes (W*-45°C / W*-7°C) (4)												
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	34.534	38.826	43.915	51.070	57.226	65.736	73.434	83.856	94.585	102.947	109.954
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	35.981	41.776	45.554	52.195	58.753	67.603	75.830	87.384	98.488	107.379	114.913
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
Cooling system side 4-pipe system (1)												
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	124,00	138,00	155,00	172,00	195,00	218,00	247,00	280,00	319,00	341,00	371,00
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	35.565	39.671	44.593	51.536	57.151	66.430	73.295	84.370	93.611	102.896	109.845
Pressure drop system side	kPa	24	33	34	42	43	36	36	49	54	64	47
4-pipe system side heating (A7°C/W40-45°C) (2)												
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	120,00	143,00	154,00	166,00	183,00	214,00	233,00	272,00	306,00	337,00	356,00
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	36.426	42.701	47.339	53.155	59.117	68.781	75.976	87.653	97.701	107.407	114.743
Pressure drop system side	kPa	34	47	39	49	61	42	44	53	55	66	50
Simultaneous operation (heating + cooling), 4 pipes (W*-45 °C / W*-7 °C) (3)												
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	35.565	39.671	44.593	51.536	57.151	66.430	73.295	84.370	93.611	102.896	109.845
Pressure drop cold side	kPa	24	33	34	42	43	36	36	49	54	64	47
Water flow rate hot side	l/h	36.426	42.701	47.339	53.155	59.117	68.781	75.976	87.653	97.701	107.407	114.743
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
Cooling system side 4-pipe system (1)												
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	113,00	125,00	142,00	159,00	182,00	203,00	225,00	256,00	294,00	315,00	344,00
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	34.534	38.826	43.915	51.070	57.226	65.736	73.434	83.856	94.585	102.947	109.954
Pressure drop system side	kPa	25	33	34	43	44	37	38	49	54	64	48
4-pipe system side heating (A7°C/W40-45°C) (2)												
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	109,00	126,00	136,00	153,00	170,00	195,00	217,00	250,00	293,00	320,00	338,00
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	35.981	41.776	45.554	52.195	58.753	67.603	75.830	87.384	98.488	107.379	114.913
Pressure drop system side	kPa	34	45	38	48	60	41	44	53	55	66	50
Simultaneous operation (heating + cooling), 4 pipes (W*-45 °C / W*-7 °C) (3)												
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	34.534	38.826	43.915	51.070	57.226	65.736	73.434	83.856	94.585	102.947	109.954
Pressure drop cold side	kPa	25	33	34	43	44	37	38	49	54	64	48
Water flow rate hot side	l/h	35.981	41.776	45.554	52.195	58.753	67.603	75.830	87.384	98.488	107.379	114.913
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			1805	2006	2206	2406
Fans: J						
SEER - 12/7 (EN14825: 2018)						
SEER	A	W/W	4,59	4,64	4,64	4,64
	E	W/W	4,68	4,68	4,68	4,67
Seasonal efficiency	A	%	180,40	182,60	182,50	182,60
	E	%	184,30	184,10	184,20	183,80
Water Regulation (1)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO
SEER - 23/18 (EN14825: 2018)						
SEER	A	W/W	5,48	5,48	5,53	5,48
	E	W/W	5,58	5,48	5,52	5,44
Seasonal efficiency	A	%	216,10	216,10	218,00	216,20
	E	%	220,00	216,20	217,90	214,60
Water Regulation (1)	A,E	type	FW/FO	FW/FO	FW/FO	FW/FO
SEPR - (EN 14825: 2018)						
SEPR	A	W/W	5,55	5,63	5,63	5,56
	E	W/W	5,54	5,53	5,58	5,51
Water Regulation (1)	A,E	type	FW/FO	FW/FO	FW/FO	FW/FO

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

Size			1805	2006	2206	2406
Fans: °						
SEER - 23/18 (EN14825: 2018)						
SEER	A	W/W	5,11	5,07	5,11	5,07
	E	W/W	5,15	5,07	5,11	5,03
Seasonal efficiency	A	%	201,20	199,60	201,20	199,60
	E	%	203,10	199,60	201,20	198,20
Water Regulation (1)	A,E	type	FW/FO	FW/FO	FW/FO	FW/FO
SEPR - (EN 14825: 2018)						
SEPR	A	W/W	5,55	5,63	5,63	5,56
	E	W/W	5,54	5,53	5,58	5,51
Water Regulation (1)	A,E	type	FW/FO	FW/FO	FW/FO	FW/FO

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

Size			0804	0904	1004	1104	1204	1414	1604
Fans: J									
Performance in average ambient conditions (average) - 35 °C (1)									
Pdesignh	A	kW	189,00	221,00	247,00	277,00	313,00	362,00	400,00
	E	kW	188,00	218,00	239,00	274,00	309,00	355,00	397,00
SCOP	A	W/W	3,53	3,28	3,45	3,50	3,60	3,53	3,65
	E	W/W	3,70	3,60	3,70	3,70	3,83	3,70	3,75
ηsh	A	%	138,00	128,00	135,00	137,00	141,00	138,00	143,00
	E	%	145,00	141,00	145,00	145,00	150,00	145,00	147,00
Water Regulation (2)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO

(1) Efficiencies for low temperature applications (35 °C)
(2) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

Size			0804	0904	1004	1104	1204	1414	1604
Fans: °									
Performance in average ambient conditions (average) - 35 °C (1)									
Pdesignh	A	kW	189,00	221,00	247,00	277,00	313,00	362,00	400,00
	E	kW	188,00	218,00	239,00	274,00	309,00	355,00	397,00
SCOP	A	W/W	3,53	3,28	3,45	3,50	3,60	3,53	3,65
	E	W/W	3,70	3,60	3,70	3,70	3,83	3,70	3,75
ηsh	A	%	138,00	128,00	135,00	137,00	141,00	138,00	143,00
	E	%	145,00	141,00	145,00	145,00	150,00	145,00	147,00
Water Regulation (2)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO

(1) Efficiencies for low temperature applications (35 °C)
(2) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

ELECTRIC DATA

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
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	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

Refrigerant circuit

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
Compressor													
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					
Total refrigerant charge (1)	A	kg	41,10	61,00	61,40	62,70	62,80	83,60	83,60	106,10	107,60	129,20	129,20
	E	kg	61,00	80,80	81,20	82,90	83,00	103,90	124,10	147,20	149,30	170,90	170,90
Potential global heating (GWP)	A,E							2088					
Equivalent CO_2	A	tCO_2eq	85,89	127,27	128,24	130,87	131,07	174,63	174,63	221,59	224,72	269,80	269,80
	E	tCO_2eq	127,27	168,65	169,62	173,14	173,33	216,90	259,16	307,37	311,75	356,83	356,83

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

System side heat exchanger

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
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	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″
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	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″

Recovery side heat exchanger

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
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	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″
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	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″

Fans

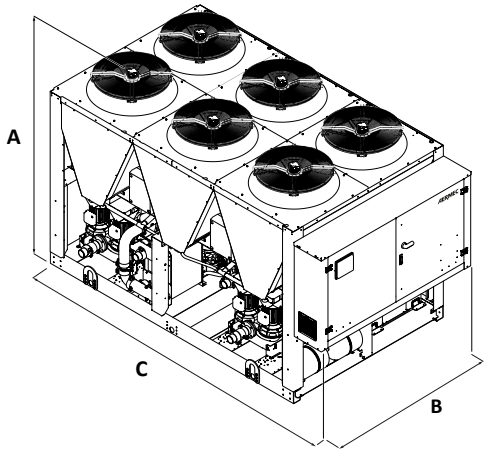
Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
Fan													
Type	A,E	type						Axial					
Fan motor	A,E	type						On-Off					
Number	A	no.	4	6	6	6	6	8	8	10	10	12	12
	E	no.	6	8	8	8	8	10	12	14	14	16	16
Air flow rate	A	m^3/h	80.000	120.000	120.000	120.000	120.000	160.000	160.000	200.000	200.000	240.000	240.000
	E	m^3/h	80.000	110.000	110.000	110.000	110.000	130.000	160.000	180.000	180.000	210.000	210.000

Sound data

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
Sound data calculated in cooling mode (1)													
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
Sound pressure level (10 m)	A	dB(A)	57,4	59,3	59,3	59,3	59,3	60,7	60,7	61,7	61,6	62,5	62,5
	E	dB(A)	52,4	53,7	53,7	53,7	53,7	54,7	55,5	56,7	57,2	58,2	58,7

(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			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
Dimensions and weights													
A	A,E	mm	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450
B	A,E	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
C	A	mm	2.780	3.970	3.970	3.970	3.970	4.760	4.760	5.950	6.350	7.140	7.140
	E	mm	3.970	4.760	4.760	4.760	4.760	5.950	7.140	8.330	8.330	9.520	9.520

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
System type: 2													
Weights													
Empty weight	A	kg	2.642	3.152	3.262	3.452	3.722	4.409	4.569	5.419	5.829	6.479	6.756
	E	kg	3.072	3.712	3.822	4.012	4.282	4.879	5.449	6.359	6.789	7.469	7.736

Size			0804	0904	1004	1104	1204	1414	1604	1805	2006	2206	2406
System type: 4													
Weights													
Empty weight	A	kg	2.632	3.132	3.252	3.442	3.692	4.379	4.539	5.389	5.799	6.449	6.716
	E	kg	3.052	3.692	3.812	4.002	4.252	4.849	5.419	6.319	6.759	7.429	7.706

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

Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com