

NPG 0800-3600

Air-water multipurpose

Cooling capacity 206,8 ÷ 937,3 kW
Heating capacity 211,7 ÷ 977,6 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

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 49,0 °C in summer. Hot water production up to 60,0 °C (for more information refer to the the selection program Magellano or dedicated documentations).

Refrigerant HFC R32

Use refrigerant fluid R32, whose classification according to ISO 817 is A2L (non-toxic, odourless and slightly flammable refrigerant).

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO₂ values.

- Refrigerant gas detector is supplied as per standard.

Unit with 2/3 cooling circuits

Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Electronic expansion valve

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

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.

- Sizes 2600 to 3600 are available with a standard J fan.

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.

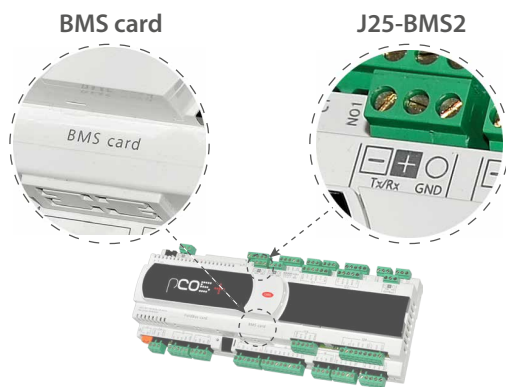
- The flow switch is available as an accessory for both the system side and the recovery side, and is compulsory; if it is not installed, the warranty will be considered invalid.

CONTROL PCO₅

The units from size 0800 to 2400 have 1 control card, while the units from size 2600 to 3600 have 2 control cards.

Microprocessor adjustment, with 7", touch screen keyboard which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and the ad adjustment includes complete management of the alarms and their log.

- 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.
- "EASYLOG" data logger as per standard: allows all operating data read by the pCO₅ to be stored on an SD card.
- **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.
- Possibility to control two units in a Master-Slave configuration (from size 0800 to 2400)



In the 'BMS card' port, the compatible accessories are:

- AER485P1
- AERBACP
- MULTICHILLER-EVO + AER485P1

In the 'J25-BMS2' port, the compatible accessories are:

- AERNET

Note:

- "BMS card" and "J25-BMS2" are two ports on the unit's control board. Only one accessory can be connected to each port.
- An 'EASYLOG' diagnostic device may be present in port 'J25-BMS2', possibly disconnect it to connect the accessory AERNET.
- **For other requirements, please contact the company.**

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.

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	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
AER485P1	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AER485P1 x no. 2	A												*	*	*	*	*	*
	E												*	*	*	*	*	*
AERBAC-ONE	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERBAC-ONE x no. 2	A												*	*	*	*	*	*
	E												*	*	*	*	*	*
AERBACP	A,E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERBACP x no. 2	A												*	*	*	*	*	*
	E												*	*	*	*	*	*
AERNET	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
FL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER-EVO	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Antivibration

Version	System side - pumps	Recovery side - pumps	0800	0900	1000	1100	1200	1400
A	00	00	AVX1210	AVX1212	AVX1212	AVX1212	AVX1214	AVX1214
A	00	MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1211	AVX1213	AVX1213	AVX1213	AVX1215	AVX1215
A	DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ	00, MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1211	AVX1213	AVX1213	AVX1213	AVX1215	AVX1215
E	00	00	AVX1212	AVX1214	AVX1214	AVX1214	AVX1217	AVX1217
E	00	MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1213	AVX1215	AVX1215	AVX1215	AVX1219	AVX1219
E	DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ	00, MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1213	AVX1215	AVX1215	AVX1215	AVX1219	AVX1219
Version	System side - pumps	Recovery side - pumps	1600	1800	2000	2200	2400	2600
A	00	00	AVX1216	AVX1217	AVX1217	AVX1219	AVX1219	AVX1270
A	00	MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1215	AVX1219	AVX1219	AVX1219	AVX1219	AVX1271
A	DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ	00, MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1215	AVX1219	AVX1219	AVX1219	AVX1219	AVX1271
E	00	00	AVX1219	AVX1220	AVX1220	AVX1222	AVX1222	AVX1274
E	00	MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1219	AVX1221	AVX1221	AVX1222	AVX1222	AVX1275
E	DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ	00, MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1219	AVX1221	AVX1221	AVX1222	AVX1222	AVX1275

Version	System side - pumps	Recovery side - pumps	2800	3000	3200	3400	3600
A	00	00	AVX1272	AVX1272	AVX1272	AVX1274	AVX1274
A	00	MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1273	AVX1273	AVX1273	AVX1275	AVX1275
A	DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ	00, MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1273	AVX1273	AVX1273	AVX1275	AVX1275
E	00, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ	00, MA, MB, MC, MD, ME, MF, MG, MH, MI, NA, NB, NC, ND, NE, NF, NG, NH, NI, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ	AVX1276	AVX1276	AVX1276	-	-

- not available

Device for peak current reduction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
A, E	DRENG0800	DRENG0900	DRENG1000	DRENG1100	DRENG1200	DRENG1400	DRENG1600	DRENG1800	DRENG2000

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

Ver	2200	2400	2600	2800	3000	3200	3400	3600
A	DRENG2200	DRENG2400	DRENG2600	DRENG2800	DRENG3000	DRENG3200	DRENG3400	DRENG3600
E	DRENG2200	DRENG2400	DRENG2600	DRENG2800	DRENG3000	DRENG3200	-	-

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

Power factor correction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
A, E	RIFNPG0800	RIFNPG0900	RIFNPG1000	RIFNPG1100	RIFNPG1200	RIFNPG1400	RIFNPG1600	RIFNPG1800	RIFNPG2000

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

Ver	2200	2400	2600	2800	3000	3200	3400	3600
A	RIFNPG2200	RIFNPG2400	RIFNPG2600	RIFNPG2800	RIFNPG3000	RIFNPG3200	RIFNPG3400	RIFNPG3600
E	RIFNPG2200	RIFNPG2400	RIFNPG2600	RIFNPG2800	RIFNPG3000	RIFNPG3200	-	-

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

Anti-intrusion grid

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
A	GP2VN	GP3G	GP3G	GP3G	GP4GM	GP4GM	GP4GM	GP5G	GP5G
E	GP3G	GP4GM	GP4GM	GP4GM	GP5GM	GP5GM	GP6G	GP7G	GP7G

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

Ver	2200	2400	2600	2800	3000	3200	3400	3600
A	GP6G	GP6G	GP16G	GP17G	GP17G	GP17G	GP18G	GP18G
E	GP8G	GP8G	GP18G	GP19G	GP19G	GP19G	-	-

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

GP2VN becomes GP2VNA if configured with a hydronic kit for size 0800 A

Condensate drip.

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
A	BRC1 x 2 (1)	BRC1 x 3 (1)	BRC1 x 3 (1)	BRC1 x 3 (1)	BRC1 x 4 (1)	BRC1 x 4 (1)	BRC1 x 4 (1)	BRC1 x 5 (1)	BRC1 x 5 (1)
E	BRC1 x 3 (1)	BRC1 x 4 (1)	BRC1 x 4 (1)	BRC1 x 4 (1)	BRC1 x 5 (1)	BRC1 x 5 (1)	BRC1 x 6 (1)	BRC1 x 7 (1)	BRC1 x 7 (1)

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

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

Ver	2200	2400	2600	2800	3000	3200	3400	3600
A	BRC1 x 6 (1)	BRC1 x 6 (1)	BRC1 x 7 (1)	BRC1 x 8 (1)	BRC1 x 8 (1)	BRC1 x 8 (1)	BRC1 x 9 (1)	BRC1 x 9 (1)
E	BRC1 x 8 (1)	BRC1 x 8 (1)	BRC1 x 9 (1)	BRC1 x 10 (1)	BRC1 x 10 (1)	BRC1 x 10 (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	NPG
4,5,6,7	Size 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600
8	Version
A	High efficiency
E	Silenced high efficiency (1)
9	System type
2	2-pipe system
4	4-pipe system
10	Coils
R	Copper pipes-copper fins
V	Copper pieps-Coated aluminium fins
°	Copper-aluminium
11	Fans
J	Inverter
°	Standard with DCPX (2)
12	Power supply
°	400V ~ 3 50Hz with magnet circuit breakers
13,14	System side - pumps
00	Without hydronic kit
	Pump n° 1 pump + stand-by pump
DA	Pump A + stand-by pump (2)
DB	Pump B + stand-by pump (2)
DC	Pump C + stand-by pump (2)
DD	Pump D + stand-by pump (2)
DE	Pump E + stand-by pump (2)
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 (3)
	Kit with n° 1 inverter pump to fixed speed
IA	Pump A equipped with inverter device to work at fixed speed (2)
IB	Pump B equipped with inverter device to work at fixed speed (2)
IC	Pump C equipped with inverter device to work at fixed speed (2)
ID	Pump D equipped with inverter device to work at fixed speed (2)
IE	Pump E equipped with inverter device to work at fixed speed (2)
IF	Pump F equipped with inverter device to work at fixed speed (4)
IG	Pump G equipped with inverter device to work at fixed speed (4)
IH	Pump H equipped with inverter device to work at fixed speed (4)
II	Pump I equipped with inverter device to work at fixed speed (4)
	Kit with n° 1 inverter pump + stand-by pump to fixed speed
JA	Pump A+stand-by pump, both equipped with inverter to work at fixed speed (2)
JB	Pump B+stand-by pump, both equipped with inverter to work at fixed speed (2)
JC	Pump C+stand-by pump, both equipped with inverter to work at fixed speed (2)
JD	Pump D+stand-by pump, both equipped with inverter to work at fixed speed (2)
JE	Pump E+stand-by pump, both equipped with inverter to work at fixed speed (2)
JF	Pump F+stand-by pump, both equipped with inverter to work at fixed speed (5)
JG	Pump G+stand-by pump, both equipped with inverter to work at fixed speed (5)
JH	Pump H+stand-by pump, both equipped with inverter to work at fixed speed (5)
JI	Pump I+stand-by pump, both equipped with inverter to work at fixed speed (5)
	Kit with n° 1 pump
PA	Pump A (2)
PB	Pump B (2)
PC	Pump C (2)

Field	Description
PD	Pump D (2)
PE	Pump E (2)
PF	Pump F
PG	Pump G
PH	Pump H
PI	Pump I
PJ	Pump J (3)
15,16	Recovery side - pumps
00	Without hydronic kit
	Kit with n° 1 inverter pump to fixed speed
MA	Pump A equipped with inverter device to work at fixed speed (2)
MB	Pump B equipped with inverter device to work at fixed speed (2)
MC	Pump C equipped with inverter device to work at fixed speed (2)
MD	Pump D equipped with inverter device to work at fixed speed (2)
ME	Pump E equipped with inverter device to work at fixed speed (2)
MF	Pump F equipped with inverter device to work at fixed speed (4)
MG	Pump G equipped with inverter device to work at fixed speed (4)
MH	Pump H equipped with inverter device to work at fixed speed (4)
MI	Pump I equipped with inverter device to work at fixed speed (4)
	Kit with n° 1 inverter pump + stand-by pump to fixed speed
NA	Pump A+stand-by pump, both equipped with inverter to work at fixed speed (2)
NB	Pump B+stand-by pump, both equipped with inverter to work at fixed speed (2)
NC	Pump C+stand-by pump, both equipped with inverter to work at fixed speed (2)
ND	Pump D+stand-by pump, both equipped with inverter to work at fixed speed (2)
NE	Pump E+stand-by pump, both equipped with inverter to work at fixed speed (2)
NF	Pump F+stand-by pump, both equipped with inverter to work at fixed speed (5)
NG	Pump G+stand-by pump, both equipped with inverter to work at fixed speed (5)
NH	Pump H+stand-by pump, both equipped with inverter to work at fixed speed (5)
NI	Pump I+stand-by pump, both equipped with inverter to work at fixed speed (5)
	Kit with n° 1 pump
RA	Pump A (2)
RB	Pump B (2)
RC	Pump C (2)
RD	Pump D (2)
RE	Pump E (2)
RF	Pump F
RG	Pump G
RH	Pump H
RI	Pump I
RJ	Pump J (3)
	Pump n° 1 pump + stand-by pump
SA	Pump A + stand-by pump (2)
SB	Pump B + stand-by pump (2)
SC	Pump C + stand-by pump (2)
SD	Pump D + stand-by pump (2)
SE	Pump E + stand-by pump (2)
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 (3)

(1) Not available for sizes 3400-3600.

(2) Not available for the sizes 2600-3600.

(3) Contact the factory

(4) Hydronic kit not available with sizes 0800-1600 version A, 0800-1100 version E.

(5) Hydronic kit not compatible with machines 0800-2000 version A, 0800-1400 version E. Not compatible with sizes 2600-3600.

PERFORMANCE SPECIFICATIONS

NPG - 2 TUBI - version A

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J																		
Cooling system side 2-pipe system (1)																		
Cooling capacity	kW	206,5	238,8	262,1	298,1	349,6	385,1	424,0	492,6	549,2	601,9	634,7	692,2	759,1	828,4	864,7	900,0	936,4
Input power	kW	72,5	78,2	87,8	105,5	116,8	134,0	151,5	172,2	199,9	209,9	227,0	248,1	269,1	297,2	315,4	326,0	342,9
Cooling total input current	A	128,20	142,20	158,30	183,60	202,90	228,00	254,20	291,80	337,30	355,10	381,10	409,60	446,60	492,80	513,90	527,00	553,00
EER	W/W	2,85	3,06	2,98	2,83	2,99	2,87	2,80	2,86	2,75	2,87	2,80	2,79	2,82	2,79	2,74	2,76	2,73
Water flow rate system side	l/h	35.537	41.084	45.096	51.279	60.134	66.248	72.915	84.728	94.449	103.520	109.133	119.060	130.559	142.477	148.710	154.781	161.041
Pressure drop system side	kPa	30	41	37	43	47	48	38	47	51	50	36	81	92	97	105	116	102
2-pipe system side heating (A7°C/W40-45°C) (2)																		
Heating capacity	kW	212,0	246,3	270,7	308,5	363,1	401,6	436,7	507,2	565,1	617,3	654,9	714,1	787,0	840,5	877,7	928,9	965,9
Input power	kW	67,3	79,4	86,7	99,8	116,0	129,1	138,3	161,0	179,3	195,0	208,9	230,5	253,2	270,9	284,3	301,4	315,6
Heating total input current	A	121,00	142,80	155,80	175,10	201,10	221,10	235,40	275,90	307,80	334,60	355,00	379,90	419,20	450,00	468,60	494,30	515,30
COP	W/W	3,15	3,10	3,12	3,09	3,13	3,11	3,16	3,15	3,15	3,17	3,13	3,10	3,11	3,10	3,09	3,08	3,06
Water flow rate system side	l/h	36.787	42.745	46.996	53.553	63.027	69.719	75.833	88.058	98.099	107.197	113.726	124.010	136.667	145.942	152.400	161.305	167.715
Pressure drop system side	kPa	26	35	35	45	56	39	35	47	61	37	42	46	55	63	68	77	83
2-pipe sanitary side heating (A7°C/W40-45°C) (3)																		
Heating capacity	kW	212,6	247,4	272,1	309,6	361,5	399,4	433,8	508,6	565,9	607,8	644,6	719,4	796,4	850,0	888,2	941,1	978,5
Input power	kW	64,9	76,7	83,1	95,4	110,8	123,0	132,9	156,0	175,8	186,5	198,8	223,5	246,9	265,2	278,3	295,8	309,0
Heating total input current	A	118,50	140,00	152,00	169,70	194,20	213,00	227,90	269,10	303,20	323,10	340,90	370,50	411,80	443,00	461,10	487,70	506,70
COP	W/W	3,28	3,22	3,28	3,25	3,26	3,25	3,26	3,26	3,22	3,26	3,24	3,22	3,23	3,21	3,19	3,18	3,17
Water flow rate domestic hot water side	l/h	36.883	42.934	47.229	53.737	62.755	69.347	75.327	88.302	98.238	105.551	111.934	124.931	138.301	147.604	154.236	163.411	169.910
Pressure drop domestic hot water side	kPa	26	35	35	45	55	38	35	47	62	36	40	47	56	64	70	79	85
Simultaneous operation (heating + cooling), 2 pipes (W*-45°C / W*-7°C) (4)																		
Cooling capacity	kW	203,7	225,7	253,7	292,1	337,7	374,2	424,7	483,4	547,9	592,0	631,0	693,6	751,5	821,0	858,1	897,7	935,3
Recovered heating power	kW	261,4	290,8	325,1	376,1	432,7	481,8	541,8	619,8	703,9	754,4	805,3	889,8	967,1	1054,8	1104,6	1157,1	1207,4
Input power	kW	61,2	69,7	76,2	90,0	102,1	115,2	125,0	146,2	167,7	173,9	186,2	211,5	233,3	253,6	268,0	282,9	296,2
Water flow rate system side	l/h	35.537	41.084	45.096	51.279	60.134	66.248	72.915	84.728	94.449	103.520	109.133	119.060	130.559	142.477	148.710	154.781	161.041
Pressure drop system side	kPa	30	41	37	43	47	48	38	47	51	50	36	81	92	97	105	116	102
Water flow rate domestic hot water side	l/h	36.883	42.934	47.229	53.737	62.755	69.347	75.327	88.302	98.238	105.551	111.934	124.931	138.301	147.604	154.236	163.411	169.910
Pressure drop domestic hot water side	kPa	26	35	35	45	55	38	35	47	62	36	40	47	56	64	70	79	85
TER	W/W	7,60	7,41	7,59	7,42	7,55	7,43	7,73	7,55	7,46	7,74	7,71	7,49	7,37	7,40	7,32	7,26	7,23

(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;

With the fan option ° the data are equivalent and available from size 0800 to 2400.

NPG - 4 TUBI - version A

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J																		
Cooling system side 4-pipe system (1)																		
Cooling capacity	kW	206,5	238,8	262,1	298,1	349,6	385,1	424,0	492,6	549,2	601,9	634,7	692,2	759,1	828,4	864,7	900,0	936,4
Input power	kW	72,5	78,2	87,8	105,5	116,8	134,0	151,5	172,2	199,9	209,9	227,0	248,1	269,1	297,2	315,4	326,0	342,9
Cooling total input current	A	128,20	142,20	158,30	183,60	202,90	228,00	254,20	291,80	337,30	355,10	381,10	409,60	446,60	492,80	513,90	527,00	553,00
EER	W/W	2,85	3,06	2,98	2,83	2,99	2,87	2,80	2,86	2,75	2,87	2,80	2,79	2,82	2,79	2,74	2,76	2,73
Water flow rate system side	l/h	35.537	41.084	45.096	51.279	60.134	66.248	72.915	84.728	94.449	103.520	109.133	119.060	130.559	142.477	148.710	154.781	161.041
Pressure drop system side	kPa	30	41	37	43	47	48	38	47	51	50	36	81	92	97	105	116	102
4-pipe system side heating (A7°C/W40-45°C) (2)																		
Heating capacity	kW	212,6	247,4	272,1	309,6	361,5	399,4	433,8	508,6	565,9	607,8	644,6	719,4	796,4	850,0	888,2	941,1	978,5
Input power	kW	64,9	76,7	83,1	95,4	110,8	123,0	132,9	156,0	175,8	186,5	198,8	223,5	246,9	265,2	278,3	295,8	309,0
Heating total input current	A	118,50	140,00	152,00	169,70	194,20	213,00	227,90	269,10	303,20	323,10	340,90	370,50	411,80	443,00	461,10	487,70	506,70
COP	W/W	3,28	3,22	3,28	3,25	3,26	3,25	3,26	3,26	3,22	3,26	3,24	3,22	3,23	3,21	3,19	3,18	3,17
Water flow rate system side	l/h	36.883	42.934	47.229	53.737	62.755	69.347	75.327	88.302	98.238	105.551	111.934	124.931	138.301	147.604	154.236	163.411	169.910
Pressure drop system side	kPa	26	35	35	45	55	38	35	47	62	36	40	47	56	64	70	79	85
Simultaneous operation (heating + cooling), 4 pipes (W*-45°C / W*-7°C) (3)																		
Cooling capacity	kW	203,7	225,7	253,7	292,1	337,7	374,2	424,7	483,4	547,9	592,0	631,0	693,6	751,5	821,0	858,1	897,7	935,3
Recovered heating power	kW	261,4	290,8	325,1	376,1	432,7	481,8	541,8	619,8	703,9	754,4	805,3	889,8	967,1	1054,8	1104,6	1157,1	1207,4
Input power	kW	61,2	69,7	76,2	90,0	102,1	115,2	125,0	146,2	167,7	173,9	186,2	211,5	233,3	253,6	268,0	282,9	296,2
TER	W/W	7,60	7,41	7,59	7,42	7,55	7,43	7,73	7,55	7,46	7,74	7,71	7,49	7,37	7,40	7,32	7,26	7,23
Water flow rate cold side	l/h	35.537	41.084	45.096	51.279	60.134	66.248	72.915	84.728	94.449	103.520	109.133	119.060	130.559	142.477	148.710	154.781	161.041
Pressure drop cold side	kPa	30	41	37	43	47	48	38	47	51	50	36	81	92	97	105	116	102
Water flow rate hot side	l/h	36.883	42.934	47.229	53.737	62.755	69.347	75.327	88.302	98.238	105.551	111.934	124.931	138.301	147.604	154.236	163.411	169.910
Pressure drop hot side	kPa	26	35	35	45	55	38	35	47	62	36	40	47	56	64	70	79	85

(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;

With the fan option ° the data are equivalent and available from size 0800 to 2400.

NPG - 2 TUBI - version E

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J																		
Cooling system side 2-pipe system (1)																		
Cooling capacity	kW	213,9	243,4	269,6	308,8	360,8	398,4	444,6	512,8	573,9	620,0	657,8	715,9	784,5	846,1	890,0	-	-
Input power	kW	68,7	76,3	85,4	101,5	114,3	130,4	142,5	165,0	189,3	201,0	217,2	234,8	256,9	281,9	301,5	-	-
Cooling total input current	A	121,30	136,10	151,30	174,30	193,90	217,60	235,70	274,90	315,60	334,80	358,60	373,40	414,80	455,70	474,90	-	-
EER	W/W	3,11	3,19	3,16	3,04	3,16	3,06	3,12	3,11	3,03	3,08	3,03	3,05	3,05	3,00	2,95	-	-
Water flow rate system side	l/h	36.805	41.878	46.384	53.119	62.049	68.513	76.468	88.195	98.704	106.600	113.102	123.130	134.927	145.513	153.075	-	-
Pressure drop system side	kPa	33	33	36	41	38	34	42	44	53	34	33	85	90	100	108	-	-
2-pipe system side heating (A7°C/W40-45°C) (2)																		
Heating capacity	kW	221,1	252,2	275,3	315,3	365,1	404,5	453,0	521,7	583,4	630,5	670,8	745,3	797,0	858,1	910,4	-	-
Input power	kW	68,9	79,7	87,0	99,8	112,1	124,1	140,1	160,5	179,3	196,0	207,7	234,3	247,8	266,5	289,1	-	-
Heating total input current	A	121,10	139,70	152,70	171,40	190,60	209,00	233,30	269,10	301,70	328,30	345,40	368,20	401,50	433,90	452,10	-	-
COP	W/W	3,21	3,16	3,16	3,16	3,26	3,26	3,23	3,25	3,25	3,22	3,23	3,18	3,22	3,22	3,15	-	-
Water flow rate system side	l/h	38.375	43.773	47.791	54.724	63.379	70.236	78.653	90.570	101.283	109.498	116.479	129.407	138.396	148.991	158.070	-	-
Pressure drop system side	kPa	28	37	36	47	57	39	38	50	65	39	44	60	67	79	88	-	-
2-pipe sanitary side heating (A7°C/W40-45°C) (3)																		
Heating capacity	kW	220,1	250,9	276,7	316,4	365,5	404,7	450,0	522,2	583,4	621,2	660,2	710,9	783,6	843,4	882,8	-	-
Input power	kW	66,3	77,1	83,5	96,3	110,8	123,1	136,1	158,5	178,5	188,1	200,4	218,3	240,4	259,0	272,2	-	-
Heating total input current	A	117,90	136,50	148,40	166,90	188,70	207,40	227,50	266,10	300,30	317,30	335,10	362,10	401,10	432,50	450,60	-	-
COP	W/W	3,32	3,25	3,31	3,28	3,30	3,29	3,31	3,29	3,27	3,30	3,29	3,26	3,26	3,26	3,24	-	-
Water flow rate domestic hot water side	l/h	38.186	43.543	48.035	54.917	63.434	70.267	78.140	90.658	101.283	107.870	114.640	123.441	136.056	146.449	153.287	-	-
Pressure drop domestic hot water side	kPa	28	36	36	47	57	39	38	50	65	37	42	54	65	76	83	-	-
Simultaneous operation (heating + cooling), 2 pipes (W*-45°C / W*-7°C) (4)																		
Cooling capacity	kW	203,9	227,9	255,4	294,4	344,0	380,9	424,9	491,4	550,4	595,8	637,5	700,1	766,3	831,0	872,5	-	-
Recovered heating power	kW	261,2	292,9	326,5	378,1	438,7	488,2	541,4	627,4	705,8	757,3	811,0	895,4	981,2	1063,9	1118,1	-	-
Input power	kW	61,0	69,3	75,9	89,7	101,7	114,6	124,7	145,9	167,3	172,6	185,4	211,1	233,0	253,4	267,8	-	-
Water flow rate system side	l/h	36.805	41.878	46.384	53.119	62.049	68.513	76.468	88.195	98.704	106.600	113.102	123.130	134.927	145.513	153.075	-	-
Pressure drop system side	kPa	33	33	36	41	38	34	42	44	53	34	33	85	90	100	108	-	-
Water flow rate domestic hot water side	l/h	38.186	43.543	48.035	54.917	63.434	70.267	78.140	90.658	101.283	107.870	114.640	123.441	136.056	146.449	153.287	-	-
Pressure drop domestic hot water side	kPa	28	36	36	47	57	39	38	50	65	37	42	54	65	76	83	-	-
TER	W/W	7,63	7,51	7,66	7,49	7,70	7,59	7,75	7,67	7,51	7,84	7,81	7,56	7,50	7,48	7,43	-	-

(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;

With the fan option ° the data are equivalent and available from size 0800 to 2400.

NPG - 4 TUBI - version E

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J																		
Cooling system side 4-pipe system (1)																		
Cooling capacity	kW	213,9	243,4	269,6	308,8	360,8	398,4	444,6	512,8	573,9	620,0	657,8	715,9	784,5	846,1	890,0	-	-
Input power	kW	68,7	76,3	85,4	101,5	114,3	130,4	142,5	165,0	189,3	201,0	217,2	234,8	256,9	281,9	301,5	-	-
Cooling total input current	A	121,30	136,10	151,30	174,30	193,90	217,60	235,70	274,90	315,60	334,80	358,60	373,40	414,80	455,70	474,90	-	-
EER	W/W	3,11	3,19	3,16	3,04	3,16	3,06	3,12	3,11	3,03	3,08	3,03	3,05	3,05	3,00	2,95	-	-
Water flow rate system side	l/h	36.805	41.878	46.384	53.119	62.049	68.513	76.468	88.195	98.704	106.600	113.102	123.130	134.927	145.513	153.075	-	-
Pressure drop system side	kPa	33	33	36	41	38	34	42	44	53	34	33	85	90	100	108	-	-
4-pipe system side heating (A7°C/W40-45°C) (2)																		
Heating capacity	kW	220,1	250,9	276,7	316,4	365,5	404,7	450,0	522,2	583,4	621,2	660,2	710,9	783,6	843,4	882,8	-	-
Input power	kW	66,3	77,1	83,5	96,3	110,8	123,1	136,1	158,5	178,5	188,1	200,4	218,3	240,4	259,0	272,2	-	-
Heating total input current	A	117,90	136,50	148,40	166,90	188,70	207,40	227,50	266,10	300,30	317,30	335,10	362,10	401,10	432,50	450,60	-	-
COP	W/W	3,32	3,25	3,31	3,28	3,30	3,29	3,31	3,29	3,27	3,30	3,29	3,26	3,26	3,26	3,24	-	-
Water flow rate system side	l/h	38.186	43.543	48.035	54.917	63.434	70.267	78.140	90.658	101.283	107.870	114.640	123.441	136.056	146.449	153.287	-	-
Pressure drop system side	kPa	28	36	36	47	57	39	38	50	65	37	42	54	65	76	83	-	-
Simultaneous operation (heating + cooling), 4 pipes (W*-45 °C / W*-7 °C) (3)																		
Cooling capacity	kW	203,9	227,9	255,4	294,4	344,0	380,9	424,9	491,4	550,4	595,8	637,5	700,1	766,3	831,0	872,5	-	-
Recovered heating power	kW	261,2	292,9	326,5	378,1	438,7	488,2	541,4	627,4	705,8	757,3	811,0	895,4	981,2	1063,9	1118,1	-	-
Input power	kW	61,0	69,3	75,9	89,7	101,7	114,6	124,7	145,9	167,3	172,6	185,4	211,1	233,0	253,4	267,8	-	-
TER	W/W	7,63	7,51	7,66	7,49	7,70	7,59	7,75	7,67	7,51	7,84	7,81	7,56	7,50	7,48	7,43	-	-
Water flow rate cold side	l/h	36.805	41.878	46.384	53.119	62.049	68.513	76.468	88.195	98.704	106.600	113.102	123.130	134.927	145.513	153.075	-	-
Pressure drop cold side	kPa	33	33	36	41	38	34	42	44	53	34	33	85	90	100	108	-	-
Water flow rate hot side	l/h	38.186	43.543	48.035	54.917	63.434	70.267	78.140	90.658	101.283	107.870	114.640	123.441	136.056	146.449	153.287	-	-
Pressure drop hot side	kPa	28	36	36	47	57	39	38	50	65	37	42	54	65	76	83	-	-

(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;

With the fan option ° the data are equivalent and available from size 0800 to 2400.

ENERGY DATA

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J																			
SEER - 12/7 (EN14825: 2018)																			
SEER	A	W/W	4,20	4,40	4,29	4,19	4,41	4,29	4,43	4,49	4,47	4,56	4,56	4,56	4,59	4,56	4,57	4,57	4,56
	E	W/W	4,57	4,65	4,63	4,55	4,70	4,60	4,71	4,73	4,68	4,76	4,67	4,65	4,66	4,61	4,59	-	-
Seasonal efficiency	A	%	165,03	172,97	168,76	164,40	173,36	168,76	174,26	176,46	175,86	179,30	179,22	179,43	180,62	179,36	179,90	179,63	179,47
	E	%	179,65	183,16	182,27	179,15	185,06	181,08	185,47	186,03	184,37	187,25	183,96	183,11	183,49	181,33	180,56	-	-
Water Regulation (1)	A	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
	E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	-	-
SEER - 23/18 (EN14825: 2018)																			
SEER	A	W/W	4,89	5,03	4,96	4,79	4,97	4,86	5,01	5,07	5,08	5,13	5,19	4,84	5,04	5,00	4,98	4,97	5,02
	E	W/W	5,28	5,36	5,28	5,20	5,32	5,26	5,30	5,33	5,23	5,42	5,34	5,06	5,13	5,02	4,96	-	-
Seasonal efficiency	A	%	192,45	198,11	195,26	188,53	195,85	191,60	197,44	199,91	200,14	202,39	204,66	190,78	198,71	196,88	196,19	195,61	197,80
	E	%	208,28	211,38	208,24	205,01	209,61	207,42	208,88	210,16	203,23	213,78	210,79	199,57	202,26	197,68	195,39	-	-
Water Regulation (1)	A	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
	E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	-	-

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

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: °																			
SEER - 12/7 (EN14825: 2018)																			
SEER	A	W/W	3,91	4,19	4,10	4,02	4,24	4,11	4,20	4,23	4,17	-(1)	-(1)	-	-	-	-	-	-
	E	W/W	4,28	4,43	4,45	4,37	4,51	4,39	4,53	4,50	4,38	4,56	-(1)	-	-	-	-	-	-
Seasonal efficiency	A	%	153,42	164,55	160,94	157,62	166,50	161,53	165,09	166,23	163,91	-(1)	-(1)	-	-	-	-	-	-
	E	%	168,35	174,04	174,86	171,66	177,32	172,45	178,03	176,91	172,17	179,53	-(1)	-	-	-	-	-	-
Water Regulation (2)	A	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
	E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	-	-
SEER - 23/18 (EN14825: 2018)																			
SEER	A	W/W	4,55	4,79	4,75	4,59	4,77	4,67	4,76	4,80	4,74	4,79	4,83	-	-	-	-	-	-
	E	W/W	4,97	5,10	5,07	4,98	5,08	5,02	5,10	5,09	4,93	5,22	5,12	-	-	-	-	-	-
Seasonal efficiency	A	%	179,15	188,60	186,82	180,78	187,65	183,75	187,30	188,88	186,64	188,56	190,36	-	-	-	-	-	-
	E	%	195,67	201,20	199,97	196,33	200,32	197,97	200,81	200,73	194,03	205,60	201,99	-	-	-	-	-	-
Water Regulation (2)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	-	-	-	-	-	-

(1) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C

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

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J																			
Performance in average ambient conditions (average) - 35 °C (1)																			
Pdesignh	A	kW	186,20	213,96	236,22	271,27	315,32	351,43	382,83	446,83	497,81	534,41	569,02	608,69	665,85	715,17	748,86	791,03	824,59
	E	kW	190,10	215,96	238,70	275,27	316,62	353,47	392,96	454,77	508,34	542,88	578,33	613,29	668,22	719,87	752,40	-	-
SCOP	A	W/W	3,87	3,63	3,78	3,76	3,69	3,83	3,95	3,93	3,94	4,00	4,04	4,00	4,01	3,94	3,90	3,82	3,81
	E	W/W	3,77	3,62	3,70	3,79	3,66	3,77	3,88	3,85	3,86	3,97	3,99	3,99	3,95	3,88	3,85	-	-
ηsh	A	%	151,87	142,21	148,35	147,20	144,52	150,06	154,81	154,14	154,62	157,05	158,56	157,04	157,40	154,48	153,03	149,67	149,54
	E	%	147,93	141,65	145,12	148,62	143,52	147,88	152,37	150,92	151,58	155,88	156,50	156,42	154,94	152,14	150,89	-	-
Water Regulation (2)	A	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
	E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	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/VO - variable water flow rate/fixed outlet temperature; FW/VO - fixed water flow rate/fixed outlet temperature.

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: °																			
Performance in average ambient conditions (average) - 35 °C (1)																			
Pdesignh	A	kW	186,20	213,96	236,22	271,27	315,32	351,43	382,83	-	-	534,41	569,02	-	-	-	-	-	-
	E	kW	190,10	215,96	238,70	275,27	316,62	353,47	392,96	-	-	542,88	578,33	-	-	-	-	-	-
SCOP	A	W/W	3,75	3,52	3,68	3,66	3,60	3,75	3,86	3,82	3,87	3,90	3,94	-	-	-	-	-	-
	E	W/W	3,65	3,51	3,61	3,70	3,57	3,64	3,79	3,71	3,77	3,85	3,88	-	-	-	-	-	-
ηsh	A	%	147,08	137,96	144,14	143,49	141,02	146,85	151,49	149,87	151,80	153,02	154,74	-	-	-	-	-	-
	E	%	143,08	137,31	141,51	144,82	139,84	142,66	148,63	145,46	147,80	151,00	152,20	-	-	-	-	-	-
Water Regulation (2)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	-	-	-	-	-	-

(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/VO - variable water flow rate/fixed outlet temperature; FW/VO - fixed water flow rate/fixed outlet temperature.

ELECTRIC DATA

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Electric data																			
Maximum current (FLA)	A	A	158,8	185,4	204,2	232,0	267,6	295,4	323,2	376,2	421,4	457,0	484,8	542,5	596,1	641,9	669,8	705,5	733,3
	E	A	166,6	193,2	212,0	239,8	275,4	303,2	338,8	391,8	437,0	472,6	500,4	558,1	611,7	657,5	685,4	-	-
Peak current (LRA)	A	A	363,0	427,2	446,0	695,0	730,6	758,4	786,2	839,2	884,4	920,0	947,8	1.004,8	1.058,4	1.104,2	1.132,1	1.167,8	1.195,6
	E	A	370,8	435,0	453,8	702,8	738,4	766,2	801,8	854,8	900,0	935,6	963,4	1.020,4	1.074,0	1.119,8	1.147,7	-	-

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Compressor																			
Type	A,E	type	Scroll																
Compressor regulation	A,E	Type	On-Off																
Number	A	no.	4	4	4	4	4	4	4	5	6	6	6	7	8	9	9	9	9
	E	no.	4	4	4	4	4	4	4	5	6	6	6	7	8	9	9	-	-
Circuits	A	no.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	E	no.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	-	-
Refrigerant	A,E	type	R32																
Total refrigerant charge (1)	A	kg	32,10	39,31	45,50	45,50	62,00	62,00	64,00	76,00	76,00	86,50	94,00	108,00	114,60	132,00	132,00	132,00	132,00
	E	kg	45,80	57,00	58,60	59,70	68,20	68,20	89,00	100,00	100,00	90,00	109,00	114,40	164,40	179,10	179,10	-	-
Potential global heating (GWP)	A		675																
	E		675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	-	-
Equivalent CO ₂	A	tCO ₂ eq	21,67	26,54	30,71	30,71	41,85	41,85	43,20	51,30	51,30	58,39	63,45	72,90	77,36	89,10	89,10	89,10	89,10
	E	tCO ₂ eq	30,92	38,48	39,56	40,30	46,04	46,04	60,08	67,50	67,50	60,75	73,58	77,22	110,97	120,89	120,89	-	-

(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			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
2-pipe system - System side heat exchanger (hot/cold)																			
Type	A,E	type	Braze plate																
Number	A	no.	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	E	no.	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	-	-
Connections (in/out)	A,E	Type	Grooved joints																
Sizes (in/out)	A	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"
	E	Ø	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	-	-
4-pipe system - System side heat exchanger (cold side)																			
Type	A,E	type	Braze plate																
Number	A	no.	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	E	no.	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	-	-
Connections (in/out)	A,E	Type	Grooved joints																
Sizes (in/out)	A	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"
	E	Ø	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	-	-

Recovery side heat exchanger

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
2-pipe system - Recovery side heat exchanger (domestic hot water)																			
Type	A,E	type	Braze plate																
Number	A	no.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	E	no.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	-	-
Connections (in/out)	A,E	Type	Grooved joints																
Sizes (in/out)	A	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"
	E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	-	-
4-pipe system - Recovery side heat exchanger (hot side)																			
Type	A,E	type	Braze plate																
Number	A	no.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	E	no.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	-	-
Connections (in/out)	A,E	Type	Grooved joints																
Sizes (in/out)	A	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"
	E	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	-	-

Fans

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J																			
Fan																			
Type	A,E	type	Axial																
Fan motor	A,E	type	Inverter																
Number	A	no.	4	6	6	6	8	8	8	10	10	12	12	14	16	16	16	18	18
	E	no.	6	8	8	8	10	10	12	14	14	16	16	18	20	20	20	-	-
Air flow rate	A	m ³ /h	82.403	123.609	123.609	123.605	164.779	164.779	164.779	205.996	205.998	247.152	247.152	289.826	331.230	331.230	331.230	372.633	372.633
	E	m ³ /h	102.378	136.491	136.491	136.491	170.613	170.613	204.757	238.871	238.871	272.982	272.982	305.065	338.981	338.961	338.960	-	-

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: °																			
Fan																			
Type	A,E	type	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	-	-	-	-	-
Fan motor	A,E	type	-(1)	-(1)	-(1)	-(1)	-(1)	-(1)	-(1)	-(1)	-(1)	-(1)	-(1)	-(1)	-	-	-	-	-
Number	A	no.	4	6	6	6	8	8	8	10	10	12	12	-	-	-	-	-	-
	E	no.	6	8	8	8	10	10	12	14	14	16	16	-	-	-	-	-	-
Air flow rate	A	m³/h	82.403	123.609	123.609	123.605	164.779	164.779	164.779	205.996	205.998	247.152	247.152	-	-	-	-	-	-
	E	m³/h	102.378	136.491	136.491	136.491	170.613	170.613	204.757	238.871	238.871	272.982	272.982	-	-	-	-	-	-

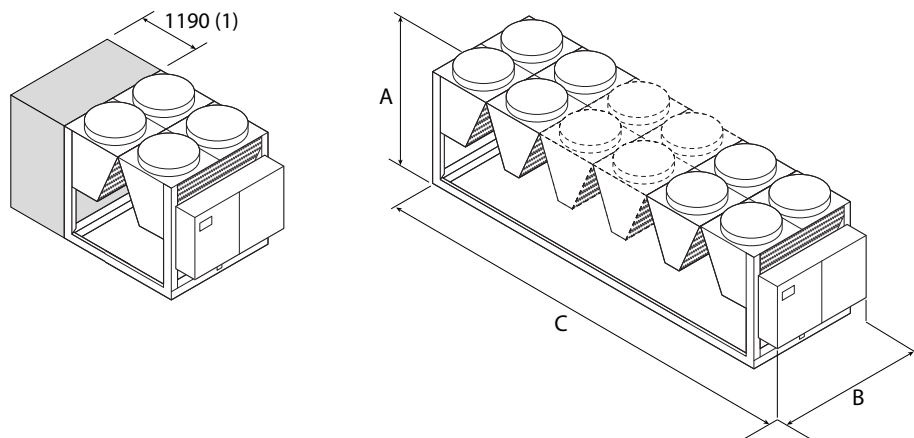
(1) On-Off with DCPX

Sound data

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Sound data calculated in cooling mode (1)																			
Sound power level	A	dB(A)	90,5	92,2	92,2	92,3	93,6	93,6	93,7	94,6	94,7	95,4	95,5	95,6	96,1	96,1	96,2	96,7	96,8
	E	dB(A)	85,2	86,2	86,2	87,0	88,3	88,8	89,7	90,1	90,2	90,9	91,2	92,2	92,5	92,6	92,8	-	-
Sound pressure level (10 m)	A	dB(A)	58,3	59,9	59,9	60,0	61,2	61,2	61,3	62,1	62,1	62,8	62,8	62,7	63,0	63,1	63,2	63,6	63,7
	E	dB(A)	52,9	53,8	53,8	54,6	55,7	56,3	57,0	57,3	57,4	57,9	58,2	59,0	59,2	59,3	59,5	-	-

(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



(1) Additional module needed to contain the hydronic kit with "pump" option in sizes:
NPG 0800 A

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Dimensions and weights without hydronic kit																			
A	A	mm	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450
	E	mm	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	-	-
B	A	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
	E	mm	2.200	2.200	2.200	2.200	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	2.820	4.010	4.010	4.010	5.200	5.200	5.200	6.390	6.390	7.580	7.580	9.960	11.150	11.150	11.150	12.340	12.340
	E	mm	4.010	5.200	5.200	5.200	6.390	6.390	7.580	8.770	8.770	9.960	9.960	12.340	13.530	13.530	13.530	-	-
Empty weight	A	kg	2.575	3.120	3.130	3.325	4.115	4.305	4.605	5.400	5.805	6.640	6.740	8.254	9.076	9.471	9.571	10.323	10.413
	E	kg	3.085	3.745	3.755	3.955	4.690	4.865	5.565	6.400	6.780	7.690	7.825	9.268	10.175	10.540	10.640	-	-
Dimensions and weights with pump/s																			
A	A	mm	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450
	E	mm	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	-	-
B	A	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
	E	mm	2.200	2.200	2.200	2.200	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	4.010	4.010	4.010	4.010	5.200	5.200	6.390	6.390	7.580	7.580	9.960	11.150	11.150	11.150	12.340	12.340	12.340
	E	mm	4.010	5.200	5.200	5.200	6.390	6.390	7.580	8.770	8.770	9.960	9.960	12.340	13.530	13.530	13.530	-	-

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.

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