NRG 0800H-3600H

Reversible air/water heat pump

Cooling capacity 195,2 ÷ 639,6 kW
Heating capacity 209,3 ÷ 674,2 kW

- **High efficiency also at partial loads**
- **Low refrigerant charge**
- **Night mode**

DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.
The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard
A High efficiency
E Silenced high efficiency
L Standard silenced

FEATURES

Operating field

Working at full load up to -15 °C outside air temperature in winter, and up to 49 °C in summer. Hot water production up to 60 °C (for more details refer to the technical documentation).

Dual-circuit unit

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

Refrigerant HFC R32

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 CO_2 values.

■ *Refrigerant gas detector is supplied as per standard.*

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

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

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.

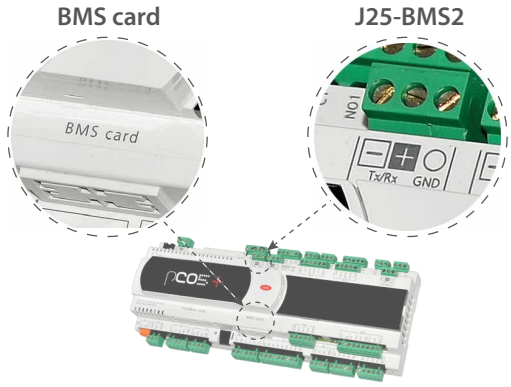
Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.
It is available in different configurations with storage tank or with fixed pumps also inverter.

CONTROL PCO[5]

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 graphically view the progress of some variables in real time 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.
— **Floating HP control:** available for all models with an inverter fan or DCPX. Thanks to continuous fan modulation, unit operation is optimised in every working position in cooling mode. The result is enhanced machine energy efficiency with partial loads.
— **"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 with the fan to be, inverter or phase-cut or with the DCPX accessory**, a silenced operation profile can be set, which is useful, for example, at night for greater acoustic comfort, but always ensures performance even at peak load hours.
— 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.**

INTEGRATED SOLUTION

The **"integrated solution" concept has been implemented in the system architecture**, consisting in an integrated and streamlined control of compressors and electronic valve.
This solution allowed a variety of new features to be introduced, such as:

— **Low Superheat Control**: Progressive superheating reduction in conditions of stability. This allows to increase energy performance: both in modulation and in full load conditions;
— **DLT control**: Control of electronic valve at discharge temperature in certain operating conditions. This is demonstrated in an enhanced reliability of the control and a considerable expansion of the machine's operating range, especially in heating mode.

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.
AERLINK: Aerlink is a WiFi gateway with an RS485 serial port that allows a wide range of Aermec products (heat pumps/chillers/system controllers) equipped with this interface to connect easily and securely to a Wi-Fi network. It works both as an access point (AP access point) and as a client (WiFi Station), it can be connected to a single generator or system centraliser, allowing anyone to easily integrate them into any network. Thanks to the AerApp and AerPlants apps, which can be used on Android and iOS platforms, the remote management of the air conditioning systems developed by Aermec becomes intuitive and simple.
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.
PR4: Remote panel with LCD display and touch keyboard that allows carrying out the basic controls, the programming of time ranges and the signalling of the alarms of a single unit.

The accessory PR4 should only be combined with the RS485 communication interface when the serial port is occupied by another device.

AVX: Spring anti-vibration supports.
DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

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
T6: Double safety valve with exchange cock, both on the high and low pressure branches.
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,L	•	•	•	•	•	•	•	•	•	•	•						
AER485P1 x no. 2	°,A,E,L												•	•	•	•	•	•
AERBAC-ONE	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•						
AERBAC-ONE x no. 2	°,A,E,L												•	•	•	•	•	•
AERBACP	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•						
AERBACP x no. 2	°,A,E,L												•	•	•	•	•	•
AERLINK	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AERNET	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FL	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MULTICHILLER-EVO	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PGD1	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Remote panel

Model	Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
PR4	°,A,E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

The accessory PR4 should only be combined with the RS485 communication interface when the serial port is occupied by another device.

Condensation control temperature

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
°	DCPX161	DCPX161	DCPX161	DCPX163	DCPX163	DCPX163	DCPX163	DCPX165	DCPX167
A	DCPX161	DCPX163	DCPX163	DCPX163	DCPX165	DCPX165	DCPX165	DCPX167	DCPX167
E, L	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard

Ver	2200	2400	2600	2800	3000	3200	3400	3600
°	DCPX167	DCPX167	DCPX174	DCPX174	DCPX175	DCPX175	DCPX175	DCPX175
A	DCPX169	DCPX169	DCPX174	DCPX175	DCPX175	DCPX175	DCPX176	DCPX176
E, L	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard

Antivibration

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Integrated hydronic kit: 00																	
°	AVX1151	AVX1151	AVX1151	AVX1153	AVX1153	AVX1153	AVX1153	AVX1154	AVX1163	AVX1163	AVX1163	AVX1167	AVX1167	AVX1171	AVX1171	AVX1171	AVX1171
A, L	AVX1151	AVX1153	AVX1153	AVX1153	AVX1154	AVX1154	AVX1154	AVX1156	AVX1156	AVX1159	AVX1159	AVX1167	AVX1171	AVX1171	AVX1171	AVX1169	AVX1169
E	AVX1153	AVX1154	AVX1154	AVX1154	AVX1156	AVX1156	AVX1159	AVX1161	AVX1161	AVX1165	AVX1165	AVX1169	AVX1173	AVX1173	AVX1173	AVX1175	AVX1175
Integrated hydronic kit: AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ																	
°	AVX1152	AVX1152	AVX1152	AVX1152	AVX1152	AVX1152	AVX1152	AVX1155	AVX1157	AVX1157	AVX1157	AVX1168	AVX1168	AVX1172	AVX1172	AVX1172	AVX1172
A, L	AVX1152	AVX1152	AVX1152	AVX1152	AVX1155	AVX1155	AVX1155	AVX1157	AVX1157	AVX1160	AVX1160	AVX1168	AVX1172	AVX1172	AVX1172	AVX1170	AVX1170
E	AVX1152	AVX1155	AVX1155	AVX1155	AVX1157	AVX1157	AVX1160	AVX1162	AVX1162	AVX1166	AVX1166	AVX1170	AVX1174	AVX1174	AVX1174	AVX1176	AVX1176
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ																	
°	AVX1151	AVX1151	AVX1151	AVX1153	AVX1153	AVX1153	AVX1153	AVX1154	AVX1163	AVX1163	AVX1163	AVX1167	AVX1167	AVX1171	AVX1171	AVX1171	AVX1171
A, L	AVX1151	AVX1153	AVX1153	AVX1153	AVX1154	AVX1154	AVX1158	AVX1156	AVX1156	AVX1164	AVX1164	AVX1167	AVX1171	AVX1171	AVX1171	AVX1169	AVX1169
E	AVX1153	AVX1154	AVX1154	AVX1154	AVX1156	AVX1156	AVX1159	AVX1161	AVX1161	AVX1165	AVX1165	AVX1169	AVX1173	AVX1173	AVX1173	AVX1175	AVX1175

Device for peak current reduction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
°, A, E, L	DRENRG0800	DRENRG0900	DRENRG1000	DRENRG1100	DRENRG1200	DRENRG1400	DRENRG1600	DRENRG1800	DRENRG2000

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

Ver	2200	2400	2600	2800	3000	3200	3400	3600
°, A, E, L	DRENRG2200	DRENRG2400	DRENRG2600	DRENRG2800	DRENRG3000	DRENRG3200	DRENRG3400	DRENRG3600

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, L	RIFNRG0800	RIFNRG0900	RIFNRG1000	RIFNRG1100	RIFNRG1200	RIFNRG1400	RIFNRG1600	RIFNRG1800	RIFNRG2000

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

Ver	2200	2400	2600	2800	3000	3200	3400	3600
°, A, E, L	RIFNRG2200	RIFNRG2400	RIFNRG2600	RIFNRG2800	RIFNRG3000	RIFNRG3200	RIFNRG3400	RIFNRG3600

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	2200	2400	2600	2800	3000	3200	3400	3600
°	GP2VN	GP2VN	GP2VN	GP3G	GP3G	GP3G	GP3G	GP4G	GP5G	GP5G	GP5G	GP11G	GP10G	GP12G	GP12G	GP12G	GP12G
A, L	GP2VN	GP3G	GP3G	GP3G	GP4GM	GP4GM	GP4GM	GP5G	GP5G	GP6G	GP6G	GP11G	GP12G	GP12G	GP12G	GP13G	GP13G
E	GP3G	GP4GM	GP4GM	GP4GM	GP5GM	GP5GM	GP6G	GP7G	GP7G	GP8G	GP8G	GP13G	GP14G	GP14G	GP14G	GP15G	GP15G

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

■ *GP2VN becomes GP2VNA if configured with a type A or B hydronic kit*

Double safety valves

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
°, A, E, L	T6NRGLS1	T6NRGLS1	T6NRGLS1	T6NRGLS1	T6NRGLS1	T6NRGLS1	T6NRGLS1	T6NRGLS2	T6NRGLS3	T6NRGLS3	T6NRGLS3	T6NRGLS3	T6NRGLS4	T6NRGLS5	T6NRGLS5	T6NRGLS5	T6NRGLS5

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

Condensate drip.

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
°	BRC1 x 2 (1)	BRC1 x 2 (1)	BRC1 x 2 (1)	BRC1 x 3 (1)	BRC1 x 3 (1)	BRC1 x 3 (1)	BRC1 x 3 (1)	BRC1 x 4 (1)	BRC1 x 5 (1)
A, L	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
°	BRC1 x 5 (1)	BRC1 x 5 (1)	BRC1 x 7 (1)	BRC1 x 7 (1)	BRC1 x 8 (1)	BRC1 x 8 (1)	BRC1 x 8 (1)	BRC1 x 8 (1)
A, L	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)	BRC1 x 11 (1)	BRC1 x 11 (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		**NRG**
4,5,6,7		**Size** 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600
8		**Operating field**
	X	Electronic thermostatic expansion valve (1)
	Z	Low temperature electronic thermostatic valve (2)
9		**Model**
	H	Heat pump
10		**Heat recovery**
	D	With desuperheater (3)
	°	Without heat recovery
11		**Version**
	°	Standard
	A	High efficiency
	E	Silenced high efficiency
	L	Standard silenced
12		**Coils**
	R	Copper pipes-copper fins
	V	Copper pieps-Coated aluminium fins
	°	Copper-aluminium
13		**Fans**
	J	Inverter
	°	Standard
14		**Power supply**
	°	400V ~ 3 50Hz with magnet circuit breakers
15,16		**Integrated hydronic kit**
	00	Without hydronic kit
		Kit with n° 1 pump
	PA	Pump A
	PB	Pump B
	PC	Pump C
	PD	Pump D
	PE	Pump E
	PF	Pump F
	PG	Pump G
	PH	Pump H
	PI	Pump I
	PJ	Pump J (4)
		Pump n° 1 pump + stand-by pump
	DA	Pump A + stand-by pump
	DB	Pump B + stand-by pump
	DC	Pump C + stand-by pump
	DD	Pump D + stand-by pump
	DE	Pump E + stand-by pump
	DF	Pump F + stand-by pump
	DG	Pump G + stand-by pump
	DH	Pump H + stand-by pump
	DI	Pump I + stand-by pump
	DJ	Pump J + stand-by pump (4)
		Kit with storage tank and n° 1 pump
	AA	Storage tank and pump A
	AB	Storage tank and pump B
	AC	Storage tank and pump C
	AD	Storage tank and pump D
	AE	Storage tank and pump E
	AF	Storage tank and pump F
	AG	Storage tank and pump G
	AH	Storage tank and pump H
	AI	Storage tank and pump I
	AJ	Storage tank and pump J (4)
		Kit with storage tank and n° 1 pump + stand-by pump
	BA	Storage tank with pump A + stand-by pump
	BB	Storage tank with pump B + stand-by pump
	BC	Storage tank with pump C + stand-by pump
	BD	Storage tank with pump D + stand-by pump
	BE	Storage tank with pump E + stand-by pump
	BF	Storage tank with pump F + stand-by pump
	BG	Storage tank with pump G + stand-by pump
	BH	Storage tank with pump H + stand-by pump
	BI	Storage tank with pump I + stand-by pump
	BJ	Storage tank with pump J + stand-by pump (4)
		Kit with n° 1 inverter pump to fixed speed
	IA	Pump A equipped with inverter device to work at fixed speed
	IB	Pump B equipped with inverter device to work at fixed speed
	IC	Pump C equipped with inverter device to work at fixed speedr
	ID	Pump D equipped with inverter device to work at fixed speed
	IE	Pump E equipped with inverter device to work at fixed speed
	IF	Pump F equipped with inverter device to work at fixed speed (5)
	IG	Pump G equipped with inverter device to work at fixed speed (5)
	IH	Pump H equipped with inverter device to work at fixed speed (5)
	II	Pump I equipped with inverter device to work at fixed speed (5)
	IJ	Pump J equipped with inverter device to work at fixed speed (6)
		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
	JB	Pump B+stand-by pump, both equipped with inverter to work at fixed speed
	JC	Pump C+stand-by pump, both equipped with inverter to work at fixed speed
	JD	Pump D+stand-by pump, both equipped with inverter to work at fixed speed
	JE	Pump E+stand-by pump, both equipped with inverter to work at fixed speed
	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)
	JJ	Pump J+stand-by pump, both equipped with inverter to work at fixed speed (6)
		Kit with storage tank and n° 1 inverter pump to fixed speed
	CA	Buffer tank + pump A, equipped with inverter to work at fixed speed
	CB	Buffer tank + pump B, equipped with inverter to work at fixed speed
	CC	Buffer tank + pump C, equipped with inverter to work at fixed speed
	CD	Buffer tank + pump D, equipped with inverter to work at fixed speed
	EC	Buffer tank + pump E, equipped with inverter to work at fixed speed
	CF	Buffer tank + pump F, equipped with inverter to work at fixed speed (5)
	CG	Buffer tank + pump G, equipped with inverter to work at fixed speed (5)
	CH	Buffer tank + pump H, equipped with inverter to work at fixed speed (5)
	CI	Buffer tank + pump I, equipped with inverter to work at fixed speed (5)
	CJ	Buffer tank + pump J, equipped with inverter to work at fixed speed (6)
		Kit with storage tank and n° 1 pump + stand-by pump to fixed speed
	KA	Buffer tank+pump A+stand-by pump, both with inverter to work at fixed speed
	KB	Buffer tank+pump B+stand-by pump, both with inverter to work at fixed speed
	KC	Buffer tank+pump C+stand-by pump, both with inverter to work at fixed speed
	KD	Buffer tank+pump D+stand-by pump, both with inverter to work at fixed speed
	KE	Buffer tank+pump E+stand-by pump, both with inverter to work at fixed speed
	KF	Buffer tank+pump F+stand-by pump, both with inverter to work at fixed speed (5)
	KG	Buffer tank+pump G+stand-by pump, both with inverter to work at fixed speed (5)
	KH	Buffer tank+pump H+stand-by pump, both with inverter to work at fixed speed (5)
	KI	Buffer tank+pump I+stand-by pump, both with inverter to work at fixed speed (5)
	KJ	Buffer tank+pump J+stand-by pump, both with inverter to work at fixed speed (6)

(1) Water produced from 4 °C ÷ 20 °C
(2) Water produced from 8 °C ÷ -10 °C
(3) This option is not available with the Z operating field. The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
(4) For all configurations including pump J please contact the factory.
(5) Hydronic kit not available with sizes 0800 version °/L/A, 0900 version °, 1000 version °, 1800 version °.
(6) For all possible configurations which include the "J" pump please be in touch with Aermec. Hydronic kit is not available with sizes 0800 version °/L/A, 0900 version °, 1000 version °, 1800 version °.

PERFORMANCE SPECIFICATIONS

NRG H°

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: °																		
Cooling performance 12 °C / 7 °C (1)																		
Cooling capacity	kW	200,5	220,2	238,5	292,2	325,7	353,6	381,6	456,8	531,9	561,5	591,1	705,6	749,2	824,6	859,3	895,1	925,3
Input power	kW	72,8	83,7	95,6	107,5	123,5	144,5	160,8	179,5	199,4	219,3	239,1	249,8	277,9	299,4	317,7	334,1	354,4
Cooling total input current	A	127,00	144,00	163,00	182,00	207,00	238,00	268,00	300,00	333,00	362,00	391,00	424,00	485,00	506,00	527,00	567,00	597,00
EER	W/W	2,75	2,63	2,49	2,72	2,64	2,45	2,37	2,55	2,67	2,56	2,47	2,83	2,70	2,75	2,70	2,68	2,61
Water flow rate system side	l/h	34.503	37.880	41.031	50.268	56.029	60.821	65.615	78.560	91.483	96.570	101.650	121.347	128.839	141.815	147.773	153.929	159.128
Pressure drop system side	kPa	25	30	35	45	45	47	29	42	50	49	47	53	60	69	73	75	79
Heating performance 40 °C / 45 °C (2)																		
Heating capacity	kW	212,2	235,2	256,2	310,2	348,1	384,0	416,2	492,2	568,3	603,5	638,4	729,6	782,6	858,4	896,3	931,7	966,8
Input power	kW	66,1	73,5	80,8	98,1	109,5	123,5	129,7	153,3	175,5	186,3	198,1	232,9	252,2	275,3	288,2	299,7	312,5
Heating total input current	A	120,00	133,00	145,00	173,00	190,00	210,00	221,00	263,00	303,00	319,00	337,00	395,00	430,00	471,00	490,00	506,00	524,00
COP	W/W	3,21	3,20	3,17	3,16	3,18	3,11	3,21	3,21	3,24	3,24	3,22	3,13	3,10	3,12	3,11	3,11	3,09
Water flow rate system side	l/h	36.823	40.823	44.470	53.838	60.421	66.654	72.264	85.444	98.663	104.778	110.847	126.695	135.884	149.044	155.628	161.773	167.874
Pressure drop system side	kPa	29	36	42	53	54	58	37	52	60	60	58	58	66	76	81	83	88

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRG HL

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: °																		
Cooling performance 12 °C / 7 °C (1)																		
Cooling capacity	kW	194,9	231,4	252,7	283,9	335,9	367,7	399,5	467,1	515,0	568,3	599,3	684,6	752,3	804,8	836,8	889,9	919,8
Input power	kW	73,7	78,6	88,8	107,7	118,0	136,6	154,7	175,4	203,9	213,7	232,1	255,0	275,5	305,5	325,1	334,6	353,5
Cooling total input current	A	125,00	136,00	153,00	179,00	196,00	222,00	249,00	285,00	331,00	346,00	374,00	420,00	457,00	506,00	528,00	540,00	568,00
EER	W/W	2,65	2,94	2,85	2,64	2,85	2,69	2,58	2,66	2,53	2,66	2,58	2,69	2,73	2,63	2,57	2,66	2,60
Water flow rate system side	l/h	33.540	39.819	43.473	48.838	57.788	63.245	68.702	80.332	88.566	97.728	103.054	117.728	129.370	138.391	143.907	153.027	158.170
Pressure drop system side	kPa	23	33	34	39	45	47	33	39	41	49	35	51	59	64	67	75	70
Heating performance 40 °C / 45 °C (2)																		
Heating capacity	kW	209,6	244,9	268,8	305,3	357,3	394,2	431,7	502,3	558,0	611,4	647,2	717,8	788,1	844,0	880,6	933,5	969,8
Input power	kW	64,6	76,2	83,3	95,6	111,1	123,9	131,4	152,8	170,0	186,9	199,5	227,5	249,8	267,9	280,7	297,4	310,8
Heating total input current	A	115,00	134,00	147,00	165,00	188,00	207,00	219,00	257,00	288,00	313,00	333,00	378,00	416,00	447,00	466,00	491,00	512,00
COP	W/W	3,24	3,22	3,23	3,19	3,22	3,18	3,29	3,29	3,28	3,27	3,24	3,15	3,16	3,15	3,14	3,14	3,12
Water flow rate system side	l/h	36.369	42.513	46.657	52.988	62.021	68.420	74.962	87.217	96.884	106.143	112.386	124.645	136.849	146.552	152.908	162.100	168.406
Pressure drop system side	kPa	28	39	40	47	53	56	40	47	51	60	42	57	66	71	75	84	80

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRG HA

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J, °																		
Cooling performance 12 °C / 7 °C (1)																		
Cooling capacity	kW	200,5	236,4	258,7	292,2	344,0	378,0	412,2	480,7	532,0	584,8	618,3	700,8	768,8	824,7	859,0	911,3	943,6
Input power	kW	71,4	78,5	88,2	105,8	117,2	134,5	151,4	172,4	196,2	210,0	227,1	245,1	271,0	296,0	314,1	327,9	345,4
Cooling total input current	A	127,00	141,00	157,00	182,00	201,00	226,00	251,00	289,00	333,00	351,00	377,00	424,00	462,00	509,00	529,00	545,00	571,00
EER	W/W	2,81	3,01	2,93	2,76	2,94	2,81	2,72	2,79	2,71	2,78	2,72	2,86	2,84	2,79	2,73	2,78	2,73
Water flow rate system side	l/h	34.505	40.669	44.506	50.268	59.178	65.028	70.879	82.668	91.485	100.578	106.317	120.517	132.216	141.823	147.725	156.722	162.264
Pressure drop system side	kPa	24	33	34	39	45	47	33	39	42	50	35	53	61	67	70	79	74
Heating performance 40 °C / 45 °C (2)																		
Heating capacity	kW	214,2	249,2	273,9	311,8	364,1	404,2	439,5	510,6	568,3	624,2	661,5	726,3	796,9	854,6	892,3	944,8	982,2
Input power	kW	65,5	76,7	84,1	96,3	111,6	125,5	132,9	153,9	171,9	189,2	201,7	229,0	250,4	268,2	280,9	299,3	312,3
Heating total input current	A	119,00	139,00	152,00	170,00	195,00	215,00	227,00	265,00	298,00	325,00	344,00	389,00	428,00	458,00	477,00	506,00	526,00
COP	W/W	3,27	3,25	3,25	3,24	3,26	3,22	3,31	3,32	3,31	3,30	3,28	3,17	3,18	3,19	3,18	3,16	3,15
Water flow rate system side	l/h	37.179	43.255	47.538	54.127	63.192	70.158	76.308	88.642	98.663	108.366	114.875	126.116	138.372	148.390	154.943	164.062	170.550
Pressure drop system side	kPa	29	40	41	49	55	58	41	49	53	62	44	58	67	73	77	86	82

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRG HE

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: J, °																		
Cooling performance 12 °C / 7 °C (1)																		
Cooling capacity	kW	210,2	241,4	265,0	301,3	349,5	385,3	433,9	499,0	555,3	602,8	639,1	718,4	790,6	846,2	879,4	924,9	962,3
Input power	kW	68,8	76,7	85,7	101,9	115,0	130,8	142,8	165,0	189,0	202,2	217,7	241,7	264,6	289,3	308,3	320,7	337,3
Cooling total input current	A	120,00	135,00	150,00	173,00	192,00	215,00	234,00	272,00	312,00	332,00	355,00	390,00	433,00	474,00	493,00	512,00	536,00
EER	W/W	3,05	3,15	3,09	2,96	3,04	2,94	3,04	3,02	2,94	2,98	2,94	2,97	2,99	2,93	2,85	2,88	2,85
Water flow rate system side	l/h	36.167	41.535	45.585	51.820	60.126	66.279	74.616	85.811	95.491	103.665	109.890	123.535	135.965	145.529	151.221	159.049	165.476
Pressure drop system side	kPa	24	33	34	40	45	47	33	40	42	50	35	56	62	70	74	71	74
Heating performance 40 °C / 45 °C (2)																		
Heating capacity	kW	220,6	251,8	277,3	320,3	367,5	407,1	456,1	525,1	586,9	634,6	674,7	737,8	806,3	867,9	904,3	951,9	991,9
Input power	kW	67,2	77,5	84,8	98,3	110,5	122,3	137,5	158,0	176,7	191,9	204,0	230,9	251,4	270,6	283,3	299,9	313,6
Heating total input current	A	119,00	137,00	150,00	170,00	189,00	207,00	229,00	266,00	299,00	321,00	340,00	384,00	419,00	452,00	470,00	497,00	516,00
COP	W/W	3,28	3,25	3,27	3,26	3,33	3,33	3,32	3,32	3,32	3,31	3,31	3,20	3,21	3,21	3,19	3,17	3,16
Water flow rate system side	l/h	38.284	43.702	48.137	55.596	63.813	70.679	79.187	91.172	101.894	110.186	117.170	128.108	140.013	150.692	157.019	165.295	172.243
Pressure drop system side	kPa	31	35	39	45	36	35	44	45	55	47	39	60	65	75	79	77	81

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ENERGY INDEX

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	°	W/W		3,99	4,13	3,85	4,14	4,03	3,85	3,78	4,02	4,18	-	-	-	-	-	-	-	-
	A	W/W		4,21	4,60	4,33	4,33	4,64	4,28	4,30	4,30	4,24	4,60	4,60	4,57	4,56	4,55	4,55	4,57	-
	E	W/W		4,57	4,84	4,78	4,63	4,86	4,65	4,84	4,85	4,59	4,71	4,60	4,83	4,85	4,83	4,75	4,77	4,72
	L	W/W		4,14	4,50	4,42	4,36	4,65	4,49	4,25	4,41	4,29	4,60	4,60	4,62	4,68	4,61	4,58	4,64	4,59
Seasonal efficiency	°	%		156,55	162,18	151,07	162,56	158,38	151,17	148,01	157,78	164,02	-	-	-	-	-	-	-	-
	A	%		165,33	180,97	170,08	170,24	182,77	168,02	169,07	169,03	166,70	181,00	181,00	179,77	179,57	179,16	179,00	179,78	-
	E	%		179,71	190,58	188,18	182,12	191,57	183,17	190,66	191,17	180,51	185,26	180,82	190,31	191,02	190,04	186,94	187,68	185,62
	L	%		162,77	177,18	173,80	171,26	182,97	176,45	167,10	173,34	168,59	181,00	181,00	181,99	184,20	181,27	180,13	182,57	180,71
Water Regulation (1)	°	type		VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	-	-	-	-	-	-	-	-
	A	type		VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	-
	E,L	type		VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO
SEER - 23/18 (EN14825: 2018)																				
SEER	°	W/W		4,75	4,88	4,55	4,88	4,84	4,60	4,46	4,78	4,97	4,92	4,67	5,29	5,05	5,14	5,05	5,05	5,20
	A	W/W		5,06	5,50	5,21	5,19	5,51	5,11	5,06	5,12	5,06	5,17	5,13	5,44	5,43	5,42	5,40	5,44	5,40
	E	W/W		5,50	5,78	5,67	5,53	5,74	5,53	5,69	5,74	5,43	5,58	5,48	5,72	5,74	5,71	5,62	5,64	5,58
	L	W/W		4,99	5,38	5,24	5,15	5,43	5,29	4,97	5,17	5,02	5,25	5,16	5,42	5,48	5,39	5,36	5,43	5,38
Seasonal efficiency	°	%		187,02	192,38	179,03	192,31	190,77	181,15	175,22	188,06	195,83	193,90	183,73	208,58	198,83	202,70	198,94	198,94	205,18
	A	%		199,50	216,82	205,23	204,64	217,40	201,20	199,34	201,67	199,41	203,64	202,38	214,51	214,23	213,80	212,81	214,47	212,86
	E	%		216,98	228,35	223,62	218,37	226,67	218,34	224,63	226,58	214,32	220,30	216,27	225,75	226,52	225,29	221,61	222,51	220,04
	L	%		196,75	212,36	206,70	202,82	214,22	208,75	195,82	203,69	197,67	207,02	203,52	213,71	216,21	212,76	211,43	214,15	212,06
Water Regulation (1)	°,A,E,L	type		VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO
Performance in average ambient conditions (average) - 35 °C (2)																				
Pdesignh	°	kW		185,15	206,27	225,80	271,64	306,70	341,17	372,21	346,80	394,90	533,43	566,98	645,10	691,43	757,82	791,03	822,14	859,65
	A	kW		186,81	215,44	237,59	273,01	317,40	354,80	387,51	352,00	394,10	547,41	583,64	637,24	698,68	748,91	781,72	827,15	866,82
	E	kW		190,51	216,73	239,10	278,54	318,90	355,45	397,88	355,00	398,70	553,94	591,06	643,37	702,87	755,88	787,35	829,00	870,35
	L	kW		182,77	212,20	233,63	267,88	312,29	347,00	381,96	349,40	391,00	537,91	572,89	631,81	693,20	742,02	773,96	819,92	852,12
SCOP	°	W/W		3,75	3,72	3,74	3,65	3,72	3,69	3,84	3,87	3,90	3,92	3,98	3,85	3,79	3,79	3,78	3,78	3,76
	A	W/W		3,98	3,87	3,91	3,92	3,89	3,93	4,04	4,03	4,08	4,08	4,13	4,01	4,00	3,98	3,95	3,93	3,90
	E	W/W		3,94	3,86	3,89	3,90	3,88	4,00	4,05	4,08	4,09	4,09	4,13	3,97	3,96	3,93	3,90	3,88	3,86
	L	W/W		3,85	3,81	3,86	3,82	3,85	3,87	3,94	3,98	4,02	3,99	4,06	3,91	3,90	3,89	3,87	3,85	3,84
ηsh	°	%		147,19	145,69	146,78	143,12	145,88	144,64	150,61	151,86	152,83	153,82	156,25	151,09	148,73	148,69	148,14	148,30	147,30
	A	%		156,18	151,63	153,29	153,97	152,61	154,02	158,79	158,12	160,03	160,11	162,27	157,55	157,00	156,15	155,08	154,33	152,86
	E	%		154,67	151,25	152,53	152,86	152,04	156,84	159,16	160,06	160,74	160,54	162,33	155,94	155,35	154,31	152,99	152,26	151,57
	L	%		151,15	149,30	151,53	149,80	151,00	151,92	154,77	156,17	157,80	156,44	159,42	153,41	152,88	152,46	151,65	151,15	150,49
Water Regulation (1)	°,A,E,L	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
Performance in average ambient conditions (average) - 55 °C (3)																				
Pdesignh	°	kW		185,15	206,27	225,80	271,64	306,70	341,17	372,21	346,80	394,90	533,43	566,98	645,10	691,43	757,82	791,03	822,14	859,65
	A	kW		186,81	215,44	237,59	273,01	317,40	354,80	387,51	352,00	394,10	547,41	583,64	637,24	698,68	748,91	781,72	827,15	866,82
	E	kW		190,51	216,73	239,10	278,54	318,90	355,45	397,88	355,00	398,70	553,94	591,06	643,37	702,87	755,88	787,35	829,00	870,35
	L	kW		182,77	212,20	233,63	267,88	312,29	347,00	381,96	349,40	391,00	537,91	572,89	631,81	693,20	742,02	773,96	819,92	852,12
SCOP	°	W/W		3,13	3,11	3,12	3,08	3,11	3,05	3,08	3,15	3,26	3,26	3,29	3,18	3,15	3,17	3,17	3,17	3,12
	A	W/W		3,30	3,26	3,28	3,28	3,25	3,24	3,24	3,27	3,36	3,37	3,35	3,30	3,31	3,30	3,29	3,29	3,20
	E	W/W		3,31	3,25	3,27	3,26	3,22	3,28	3,29	3,33	3,42	3,38	3,37	3,30	3,30	3,30	3,28	3,26	3,21
	L	W/W		3,19	3,20	3,23	3,18	3,20	3,19	3,15	3,22	3,31	3,28	3,28	3,20	3,21	3,21	3,20	3,21	3,18

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(2) Efficiencies for low temperature applications (35 °C)
(3) Efficiencies for average temperature applications (55 °C)

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
ηsh	°	%	122,27	121,29	121,95	120,26	121,59	119,01	120,35	122,90	127,46	127,29	128,67	124,30	123,00	123,82	123,69	123,98	121,67
	A	%	129,05	127,35	128,02	128,24	126,95	126,45	126,66	127,60	131,34	131,91	130,84	128,88	129,31	129,14	128,59	128,77	125,11
	E	%	129,38	127,17	127,67	127,41	125,90	128,13	128,78	130,27	133,70	132,16	131,79	129,12	129,08	129,12	128,32	127,41	125,24
	L	%	124,44	124,94	126,12	124,20	125,05	124,58	123,06	125,71	129,24	128,27	128,14	124,91	125,29	125,42	125,07	125,42	124,38
Water Regulation (1)	°,A,E,L	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

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(2) Efficiencies for low temperature applications (35 °C)
(3) Efficiencies for average temperature applications (55 °C)

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	°	W/W	3,89	4,03	3,78	4,07	3,88	3,77	3,69	3,86	4,06	-	-	-	-	-	-	-	-
	A	W/W	4,00	4,38	4,13	4,15	4,46	4,19	4,22	4,20	4,16	-	-	-	-	-	-	-	-
	E	W/W	4,33	4,60	4,59	4,43	4,66	4,39	4,65	4,61	4,39	4,58	-	4,59	4,61	4,59	-	-	-
	L	W/W	3,96	4,31	4,24	4,19	4,47	4,29	4,17	4,26	4,15	-	-	-	-	-	-	-	-
Seasonal efficiency	°	%	152,69	158,20	148,02	159,86	152,01	147,74	144,43	151,55	159,22	-	-	-	-	-	-	-	-
	A	%	156,81	172,06	162,13	163,07	175,36	164,58	165,90	165,20	163,55	-	-	-	-	-	-	-	-
	E	%	170,04	180,96	180,43	174,33	183,49	172,52	182,94	181,35	172,60	180,33	-	180,66	181,42	180,52	-	-	-
	L	%	155,45	169,56	166,78	164,53	175,76	168,44	163,89	167,52	162,83	-	-	-	-	-	-	-	-
Water Regulation (1)	°,L	type	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	-	-	-	-	-	-	-	-
	A	type	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	-	-	-	-	-	-	-	-
	E	type	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	VW/VO	-	VW/VO	VW/VO	VW/VO	-	-	-
SEER - 23/18 (EN14825: 2018)																			
SEER	°	W/W	4,63	4,77	4,46	4,80	4,65	4,50	4,35	4,59	4,83	4,79	4,55	5,29	5,05	5,14	5,05	5,05	5,20
	A	W/W	4,80	5,23	4,96	4,97	5,29	5,00	4,96	5,00	4,97	5,00	4,98	5,44	5,43	5,42	5,40	5,44	5,40
	E	W/W	5,21	5,49	5,43	5,29	5,49	5,21	5,46	5,45	5,19	5,43	5,36	5,72	5,74	5,71	5,62	5,64	5,58
	L	W/W	4,77	5,15	5,03	4,95	5,22	5,06	4,88	5,00	4,83	5,05	4,98	5,42	5,48	5,39	5,36	5,43	5,38
Seasonal efficiency	°	%	182,37	187,63	175,41	189,10	183,04	177,04	170,93	180,66	190,00	188,68	179,00	208,58	198,83	202,70	198,94	198,94	205,18
	A	%	189,14	206,09	195,59	195,87	208,48	197,12	195,59	197,11	195,60	197,09	196,06	214,51	214,23	213,80	212,81	214,47	212,86
	E	%	205,22	216,75	214,35	208,64	216,71	205,59	215,47	214,95	204,69	214,27	211,26	225,75	226,52	225,29	221,61	222,51	220,04
	L	%	187,83	203,17	198,28	194,83	205,74	199,23	192,01	196,85	190,38	199,16	196,06	213,71	216,21	212,76	211,43	214,15	212,06
Water Regulation (1)	°,A,E,L	type	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO	VW/FO
Performance in average ambient conditions (average) - 35 °C (2)																			
Pdesignh	°	kW	185,15	206,27	225,80	271,64	306,70	341,17	372,21	346,80	394,90	533,43	566,98	645,10	691,43	757,82	791,03	822,14	859,65
	A	kW	186,81	215,44	237,59	273,01	317,40	354,80	387,51	352,00	394,10	547,41	583,64	637,24	698,68	748,91	781,72	827,15	866,82
	E	kW	190,51	216,73	239,10	278,54	318,90	355,45	397,88	355,00	398,70	553,94	591,06	643,37	702,87	755,88	787,35	829,00	870,35
	L	kW	182,77	212,20	233,63	267,88	312,29	347,00	381,96	349,40	391,00	537,91	572,89	631,81	693,20	742,02	773,96	819,92	852,12
SCOP	°	W/W	3,70	3,66	3,70	3,62	3,63	3,64	3,78	3,78	3,84	3,84	3,87	3,78	3,72	3,72	3,70	3,71	3,68
	A	W/W	3,86	3,75	3,80	3,83	3,80	3,84	3,96	3,92	4,00	3,97	4,03	3,93	3,92	3,90	3,87	3,86	3,82
	E	W/W	3,82	3,74	3,79	3,80	3,78	3,86	3,96	3,93	3,99	3,96	4,02	3,90	3,88	3,86	3,82	3,81	3,79
	L	W/W	3,75	3,71	3,77	3,73	3,72	3,81	3,90	3,89	3,95	3,88	3,95	3,83	3,82	3,81	3,79	3,78	3,76
ηsh	°	%	144,95	143,51	145,03	141,70	142,39	142,72	148,37	148,22	150,74	150,57	151,99	148,07	145,75	145,71	145,18	145,33	144,35
	A	%	151,26	147,10	148,95	150,09	148,92	150,73	155,39	153,74	157,11	156,00	158,37	154,40	153,86	153,03	151,98	151,25	149,80
	E	%	149,60	146,63	148,74	148,95	148,14	151,30	155,26	154,27	156,73	155,51	157,88	152,82	152,24	151,22	149,93	149,22	148,54
	L	%	146,96	145,41	147,82	146,29	145,94	149,25	152,96	152,42	155,05	152,28	154,95	150,34	149,82	149,41	148,61	148,12	147,48
Water Regulation (1)	°,A,E,L	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
Performance in average ambient conditions (average) - 55 °C (3)																			
Pdesignh	°	kW	185,72	207,88	228,66	272,69	308,27	344,59	375,88	346,80	394,90	534,81	569,57	646,70	693,50	760,54	794,08	825,40	856,45
	A	kW	187,29	214,61	237,55	273,82	316,15	354,39	386,64	352,00	394,10	545,27	581,55	634,61	696,18	746,51	779,42	825,17	857,87
	E	kW	189,72	215,29	238,02	277,86	316,14	352,67	393,78	355,00	398,70	548,70	585,57	637,82	697,03	750,07	781,51	822,73	857,27
	L	kW	183,59	212,08	234,19	269,77	311,93	347,77	382,92	349,40	391,00	537,80	573,20	631,58	693,31	742,40	774,55	820,99	852,99
SCOP	°	W/W	3,08	3,05	3,08	3,05	3,03	3,00	3,03	3,06	3,21	3,18	3,18	3,12	3,09	3,11	3,11	3,11	3,06
	A	W/W	3,18	3,15	3,17	3,19	3,16	3,16	3,17	3,17	3,29	3,27	3,25	3,23	3,24	3,24	3,23	3,23	3,14
	E	W/W	3,19	3,14	3,17	3,17	3,13	3,15	3,20	3,19	3,32	3,26	3,26	3,24	3,24	3,24	3,22	3,20	3,14
	L	W/W	3,09	3,10	3,14	3,10	3,08	3,12	3,11	3,13	3,23	3,18	3,17	3,14	3,14	3,15	3,14	3,15	3,12
ηsh	°	%	120,10	119,16	120,24	118,86	118,20	117,16	118,26	119,46	125,22	124,15	124,36	121,80	120,53	121,33	121,20	121,49	119,23
	A	%	124,31	122,92	123,79	124,48	123,37	123,50	123,70	123,68	128,55	127,96	127,17	126,29	126,72	126,55	126,01	126,19	122,60
	E	%	124,44	122,65	123,96	123,61	122,14	122,87	125,09	124,79	129,60	127,34	127,57	126,53	126,49	126,53	125,75	124,86	122,72
	L	%	120,43	121,15	122,52	120,80	120,36	121,82	121,38	122,19	126,39	124,30	123,94	122,40	122,78	122,90	122,56	122,90	121,88
Water Regulation (1)	°,A,E,L	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

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(2) Efficiencies for low temperature applications (35 °C)
(3) Efficiencies for average temperature applications (55 °C)

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	162,2	180,5	198,8	234,5	262,4	290,3	318,1	371,7	425,3	453,2	481,1	542,5	588,3	641,9	669,8	697,7	725,5
	A,L	A	162,2	188,3	206,6	234,5	270,2	298,1	325,9	379,5	425,3	461,0	488,9	542,5	596,1	641,9	669,8	705,5	733,3
	E	A	170,0	196,1	214,4	242,3	278,0	305,9	341,5	395,1	440,9	476,6	504,5	558,1	611,7	657,5	685,4	721,1	748,9
Peak current (LRA)	°	A	365,6	421,7	440,0	696,8	724,7	752,6	780,4	834,1	887,7	915,5	943,4	1.004,8	1.050,6	1.104,2	1.132,1	1.160,0	1.187,8
	A,L	A	365,6	429,5	447,8	696,8	732,5	760,4	788,2	841,9	887,7	923,3	951,2	1.004,8	1.058,4	1.104,2	1.132,1	1.167,8	1.195,6
	E	A	373,4	437,3	455,6	704,6	740,3	768,2	803,8	857,5	903,3	938,9	966,8	1.020,4	1.074,0	1.119,8	1.147,7	1.183,4	1.211,2

Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: °																			
Compressor																			
Type	°,A,E,L	type	Scroll																
Compressor regulation	°,A,E,L	type	On-Off																
Number	°,A,E,L	no.	4	4	4	4	4	4	4	5	6	6	6	7	8	9	9	9	9
Circuits	°,A,E,L	no.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
Refrigerant	°,A,E,L	type	R32																
Total refrigerant charge (1)	°	kg	26,00	26,00	26,00	42,50	43,00	41,50	45,00	54,50	70,80	68,00	68,00	98,00	114,10	115,40	114,80	112,00	112,00
	A	kg	28,60	44,00	42,00	43,00	56,00	56,00	58,50	66,00	68,00	80,00	82,00	103,10	114,10	112,60	119,50	124,00	126,60
	E	kg	43,50	57,00	53,10	55,00	70,50	69,80	94,00	94,00	94,00	103,60	103,60	138,60	138,60	138,60	143,00	147,60	147,60
	L	kg	28,60	44,00	42,00	43,00	56,00	56,00	58,50	66,00	68,00	80,00	82,00	103,10	110,60	113,00	114,00	124,00	126,00
Potential global heating (GWP)	°,A,E,L		675																
Equivalent CO_2	°	tCO_2eq	17,55	17,55	17,55	28,69	29,03	28,01	30,38	36,79	47,79	45,90	45,90	66,15	77,02	77,90	77,49	75,60	75,60
	A	tCO_2eq	19,31	29,70	28,35	29,03	37,80	37,80	39,49	44,55	45,90	54,00	55,35	69,59	77,02	76,01	80,66	83,70	85,46
	E	tCO_2eq	29,36	38,48	35,84	37,13	47,59	47,12	63,45	63,45	63,45	69,93	69,93	93,56	93,56	93,56	96,53	99,63	99,63
	L	tCO_2eq	19,31	29,70	28,35	29,03	37,80	37,80	39,49	44,55	45,90	54,00	55,35	69,59	74,66	76,28	76,95	83,70	85,05

(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
System side heat exchanger																			
Type	°,A,E,L	type	Brazed plate																
Number	°,A,E,L	no.	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Integrated hydronic kit: 00																			
Hydraulic connections																			
Connections (in/out)	°,A,E,L	Type	Grooved joints																
Sizes (in/out)	°	Ø	3″	3″	3″	3″	3″	4″	4″	4″	4″	4″	5″	5″	5″	5″	5″	5″	5″
	A,L	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″	5″	5″

For all units, with or without a hydronic kit, the water filter is always installed.

Fans

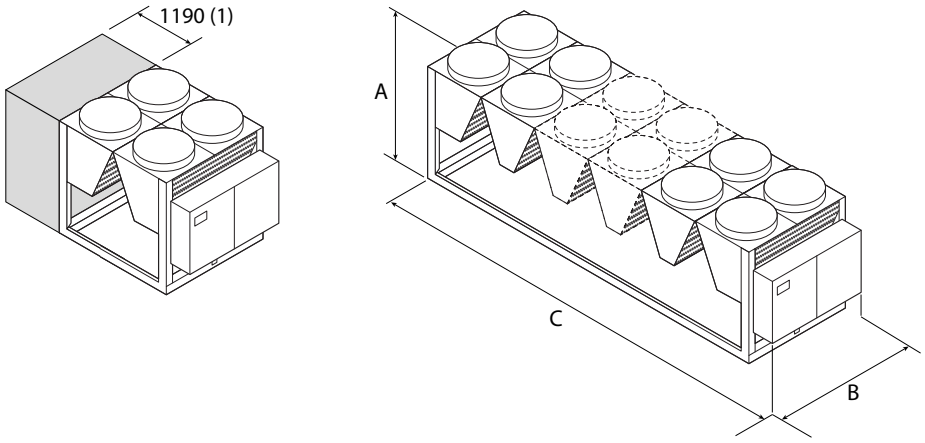
Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Fans: °																			
Fan																			
Type	°,A,E,L	type	Axial																
Number	°	no.	4	4	4	6	6	6	6	8	10	10	10	14	14	16	16	16	16
	A,L	no.	4	6	6	6	8	8	8	10	10	12	12	14	16	16	16	18	18
	E	no.	6	8	8	8	10	10	12	14	14	16	16	18	20	20	20	22	22
Fan motor	°,A	type	Asynchronous																
	E,L	type	Asynchronous with phase cut																
Air flow rate	°	m^3/h	82398	82398	82424	123596	123596	123561	123561	164866	205969	205969	205969	288399	288399	329594	329594	329598	329598
	A	m^3/h	82403	123609	123609	123605	164779	164779	164779	205996	205998	247152	247152	288414	329556	329556	329556	370819	370819
	E	m^3/h	102378	136491	136491	136491	170613	170613	204757	238871	238871	272982	272982	315634	349835	349835	349835	383943	383943
	L	m^3/h	68237	102348	102348	102356	136528	136528	136528	170617	170614	204825	204825	238801	273004	273004	273004	307010	307010

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	°	dB(A)	90,5	90,5	90,5	92,3	92,4	92,5	92,6	93,8	94,7	94,7	94,8	96,5	96,6	97,1	97,1	97,2	97,3
	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	96,5	97,1	97,1	97,1	97,6	97,7
	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	93,3	93,5
	L	dB(A)	83,5	84,7	84,8	85,8	87,2	87,8	88,3	88,9	89,0	89,8	90,1	91,0	91,3	91,4	91,7	92,2	92,4
Sound pressure level (10 m)	°	dB(A)	58,4	58,4	58,4	60,0	60,1	60,2	60,4	61,3	62,1	62,2	62,2	63,7	63,7	64,1	64,2	64,3	64,3
	A	dB(A)	58,4	59,9	59,9	60,0	61,2	61,2	61,3	62,1	62,1	62,8	62,8	63,7	64,1	64,1	64,2	64,6	64,6
	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	59,1	59,3	59,4	59,7	60,0	60,2
	L	dB(A)	51,4	52,5	52,5	53,5	54,8	55,4	55,9	56,4	56,5	57,1	57,4	58,2	58,4	58,5	58,8	59,1	59,4

(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 "accumulation" option in sizes:
NRG 0800H°, 0900H°, 1000H°
NRG 0800HL
NRG 0800HA

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Integrated hydronic kit: 00, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ																			
Dimensions and weights																			
A	°,A,E,L	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	°,A,E,L	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	°	mm	2780	2780	2780	3970	3970	3970	3970	5160	6350	6350	6350	8730	8730	9920	9920	9920	9920
	A,L	mm	2780	3970	3970	3970	5160	5160	5160	6350	6350	7540	7540	8730	8730	9920	9920	11110	11110
	E	mm	3970	5160	5160	5160	6350	6350	7540	8730	8730	9920	9920	11110	12300	12300	12300	13490	13490

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Integrated hydronic kit: AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ																			
Dimensions and weights																			
A	°,A,E,L	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	°,A,E,L	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	°	mm	3970	3970	3970	3970	3970	3970	3970	5160	6350	6350	6350	8730	8730	9920	9920	9920	9920
	A,L	mm	3970	3970	3970	3970	5160	5160	5160	6350	6350	7540	7540	8730	9920	9920	9920	11110	11110
	E	mm	3970	5160	5160	5160	6350	6350	7540	8730	8730	9920	9920	11110	12300	12300	12300	13490	13490

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Integrated hydronic kit: 00																			
Weights																			
Empty weight	°	kg	2.375	2.405	2.405	3.065	3.215	3.365	3.635	4.480	5.260	5.505	5.620	7.035	7.310	8.070	8.185	8.410	8.520
	A,L	kg	2.375	2.875	2.885	3.050	3.805	3.965	4.225	4.970	5.305	5.930	5.965	7.035	7.800	8.105	8.220	8.840	8.930
	E	kg	2.860	3.485	3.495	3.685	4.460	4.460	5.050	5.875	6.180	6.880	7.010	7.980	8.810	9.090	9.200	9.845	9.970
Weight functioning	°	kg	2.397	2.427	2.427	3.090	3.244	3.396	3.688	4.533	5.321	5.577	5.697	7.114	7.392	8.160	8.278	8.514	8.627
	A,L	kg	2.397	2.897	2.910	3.077	3.838	3.999	4.278	5.031	5.377	6.005	6.048	7.117	7.890	8.206	8.324	8.947	9.043
	E	kg	2.882	3.510	3.522	3.714	4.511	4.513	5.103	5.947	6.255	6.961	7.101	8.062	8.911	9.194	9.307	9.958	10.091

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