NRG 0282H-0804H

Reversible air/water heat pump

Cooling capacity 52,5 ÷ 212,0 kW – Heating capacity 56,6 ÷ 214,4 kW

- **High efficiency also at partial loads**
- **Low refrigerant charge**
- **Compact dimensions**

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 48 °C in summer. Hot water production up to 60°C (for more details refer to the technical documentation).

Units mono or dual-circuit

The units are mono or 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.

■ *The leak 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 or variable pumps also inverter.

■ *VARIABLE FLOW RATE: Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption.*

CONTROL PCO^5

Microprocessor control, with keyboard and LCD display, for easy access on the unit with a menu available in several languages.

— 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.
— **Swing HP and LP controls:** available for all models with inverter fan or with DCPX. By continuously modulating the fans, they streamline operation of the unit at any work point both in cooling and heating mode. This results in enhanced energy efficiency of the unit at partial loads.
— **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.

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.
MULTICHILLER-EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel (max. no. 9), always ensuring constant flow rate to the evaporators.
PGD1: Allows you to control the unit at a distance.
SGD: Electronic board designed to receive external signals from the electricity grid or energy suppliers, converting them into Modbus commands for our units. This system allows you to vary the operation of our generators to optimise consumption based on electricity prices, grid load or the availability of renewable sources. The key principle of the standard is demand response: shifting consumption from peak demand times to times when energy is cheaper and more environmentally sustainable.
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.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.
GP: Anti-intrusion grid.
VT: Anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.
RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.
T6: Double safety valve with exchange cock, both on the high and low pressure branches.
RXBAS: Electric heating element mounted on the perforated base near the battery.

ACCESSORIES COMPATIBILITY

Model	Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
AER485P1	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AERBAC-ONE	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AERBACP	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AERLINK	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AERNET	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MULTICHILLER-EVO	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PGD1	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SGD	°,A					•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E,L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Remote panel

Model	Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
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.

Antivibration

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Integrated hydronic kit: 00																		
°	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22
A	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22	VT22
E	VT17	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22	VT22
L	VT17	VT17	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22
Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08, K1, K2, K3, K4, W1, W2, W3, W4																		
°	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22
A	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22	VT22
E	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22	VT22
L	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Integrated hydronic kit: I1, I2, I3, I4, P1, P2, P3, P4																		
°	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22
A	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22	VT22
E	VT17	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22	VT22
L	VT17	VT17	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22	VT22

Condensation control temperature

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604
°, A	-	-	-	-	DCPX146	DCPX146	DCPX146	DCPX146	DCPX146
E, L	DCPX145	DCPX145	DCPX145	DCPX145	As standard	As standard	As standard	As standard	As standard

Ver	0652	0654	0682	0702	0704	0752	0754	0802	0804
°	DCPX146	DCPX146	DCPX147	DCPX147	DCPX147	DCPX147	DCPX147	DCPX147	DCPX147
A	DCPX146	DCPX147	DCPX147	DCPX147	DCPX147	DCPX147	DCPX147	DCPX147	DCPX147
E, L	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard

Anti-intrusion grid

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604
°, A	-	-	-	-	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)
E	GP3	GP4	GP4	GP4	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)
L	GP3	GP3	GP4	GP4	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)

(1) x _ indicates the quantity to buy

Ver	0652	0654	0682	0702	0704	0752	0754	0802	0804
°, L	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)
A, E	GP2 x 2 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)

(1) x _ indicates the quantity to buy

Device for peak current reduction

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604
°, A	-	-	-	-	DRENRG502	DRENRG552	DRENRG554	DRENRG602	DRENRG604
E, L	DRENRG282	DRENRG302	DRENRG332N	DRENRG352	DRENRG502	DRENRG552	DRENRG554	DRENRG602	DRENRG604

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

Ver	0652	0654	0682	0702	0704	0752	0754	0802	0804
°, A, E, L	DRENRG652	DRENRG654N	DRENRG682	DRENRG702	DRENRG704	DRENRG752	DRENRG754	DRENRG802	DRENRG804

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

Power factor correction

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604
°, A	-	-	-	-	RIFNRG502	RIFNRG552	RIFNRG554	RIFNRG602	RIFNRG604
E, L	RIFNRG282	RIFNRG302	RIFNRG332N	RIFNRG352	RIFNRG502	RIFNRG552	RIFNRG554	RIFNRG602	RIFNRG604

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

Ver	0652	0654	0682	0702	0704	0752	0754	0802	0804
°, A, E, L	RIFNRG652	RIFNRG654N	RIFNRG682	RIFNRG702	RIFNRG704	RIFNRG752	RIFNRG754	RIFNRG802	RIFNRG804

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

Double safety valves

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
°, A	-	-	-	-	T6NRG1	T6NRG1	T6NRG2	T6NRG1	T6NRG2	T6NRG1	T6NRG2	T6NRG1	T6NRG1	T6NRG2	T6NRG1	T6NRG2	T6NRG1	T6NRG2
E, L	T6NRG1	T6NRG1	T6NRG1	T6NRG1	T6NRG1	T6NRG1	T6NRG2	T6NRG1	T6NRG2	T6NRG1	T6NRG2	T6NRG1	T6NRG1	T6NRG2	T6NRG1	T6NRG2	T6NRG1	T6NRG2

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

Heating electrical resistance

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
°	-	-	-	-	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4
A	-	-	-	-	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4
E	RXBAS1	RXBAS2	RXBAS2	RXBAS2	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4
L	RXBAS1	RXBAS1	RXBAS2	RXBAS2	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS3	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4	RXBAS4

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

CONFIGURATOR

For sizes ranging from 0502 to 0804 (versions °, A), a special MR version is available, featuring larger inverter-controlled fans capable of delivering a useful static pressure up to 200 Pa. The MR version is designed for installation in a machinery room, as defined by standard EN 378-3, ISO 5149-3.

Field		Description
1,2,3		**NRG**
4,5,6,7		**Size** 0282, 0302, 0332, 0352, 0502, 0552, 0554, 0602, 0604, 0652, 0654, 0682, 0702, 0704, 0752, 0754, 0802, 0804
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 (4)
	L	Standard silenced (4)
12		**Coils**
	R	Copper pipes-copper fins
	V	Copper - coated aluminium
	°	Copper - aluminium
13		**Fans**
	J	Inverter
	°	Standard
14		**Power supply**
	°	400V ~ 3N 50Hz with magnet circuit breakers
15,16		**Integrated hydronic kit**
	00	Without hydronic kit
		Kit with storage tank and pump/s
	01	Storage tank with low head pump
	02	Storage tank with low head pump + stand-by pump
	03	Storage tank with high head pump
	04	Storage tank with high head pump + stand-by pump
		Kit with pump/s and storage tank with holes for heaters
	05	Storage tank with holes for heaters and single low head pump (5)
	06	Storage tank with holes for heaters and pump low head + stand-by pump (5)
	07	Storage tank with holes for heaters and single high head pump (5)
	08	Storage tank with holes for heaters and pump high head + stand-by pump (5)
		Double loop
	09	Double loop
		Kit with pump/s
	P1	Single pump low head
	P2	Pump low head + stand-by pump
	P3	Single pump high head
	P4	Pump high head + stand-by pump
		Kit with inverter pump/s to fixed speed
	I1	Single low head pump + fixed speed inverter
	I2	Single low head pump with fixed speed inverter + stand-by pump
	I3	Single high head pump + fixed speed inverter
	I4	Single high head pump with fixed speed inverter + stand-by pump
		Kit with storage tank and inverter pump/s to fixed speed
	K1	Single low head pump + storage tank + fixed speed inverter
	K2	Storage tank and low head pump with fixed speed inverter + stand-by pump
	K3	Single high head pump + storage tank + fixed speed inverter
	K4	Storage tank and low head pump with fixed speed inverter + stand-by pump
		Kit with storage tank and variable speed inverter pump/s
	W1	Single low head pump + Storage tank + variable speed inverter (6)
	W2	Double low head pump + Storage tank + variable speed inverter (6)
	W3	Single high head pump + Storage tank + variable speed inverter (6)
	W4	Double high head pump + Storage tank + variable speed inverter (6)

(1) Water produced from 4 °C ÷ 20 °C
(2) Water produced from 18 °C to -10 °C. The option is not compatible with hydronic kits W1-W2-W3-W4. Not available with desuperheater.
(3) 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) The size 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"
(5) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.
(6) Not available with Low temperature electronic thermostatic valve "Z"

PERFORMANCE SPECIFICATIONS

NRG H°

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J, °																			
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	-	-	-	-	93,7	103,4	114,4	117,5	127,3	127,8	141,4	156,4	175,2	169,8	196,0	190,4	215,2	209,1
Input power	kW	-	-	-	-	34,7	39,1	37,8	43,0	43,9	48,9	50,8	51,6	59,6	58,0	69,0	66,0	79,1	74,5
Cooling total input current	A	-	-	-	-	61,50	65,90	60,20	72,70	80,10	81,70	91,30	86,60	96,60	109,50	111,20	117,50	126,40	126,00
EER	W/W	-	-	-	-	2,70	2,65	3,03	2,73	2,90	2,61	2,78	3,03	2,94	2,93	2,84	2,89	2,72	2,81
Water flow rate system side	l/h	-	-	-	-	16.141	17.808	19.683	20.225	21.912	22.017	24.335	26.922	30.168	29.239	33.727	32.773	37.044	35.991
Pressure drop system side	kPa	-	-	-	-	31	38	20	34	24	40	25	48	60	36	60	40	72	49
Heating performance 40 °C / 45 °C (2)																			
Heating capacity	kW	-	-	-	-	99,6	108,8	118,2	125,6	132,1	137,6	146,9	162,6	183,1	176,7	203,0	195,8	222,4	214,4
Input power	kW	-	-	-	-	31,5	34,4	35,9	38,0	40,7	42,2	45,2	50,3	57,4	54,5	62,7	59,0	69,8	64,1
Heating total input current	A	-	-	-	-	59,30	61,60	58,90	68,30	78,90	75,30	87,60	87,10	96,10	108,70	105,40	112,30	116,80	116,40
COP	W/W	-	-	-	-	3,16	3,17	3,30	3,31	3,24	3,26	3,25	3,23	3,19	3,24	3,24	3,32	3,19	3,35
Water flow rate system side	l/h	-	-	-	-	17.265	18.855	20.522	21.779	22.925	23.855	25.482	28.203	31.767	30.659	35.221	33.974	38.576	37.206
Pressure drop system side	kPa	-	-	-	-	36	43	21	40	27	48	28	54	67	41	67	45	80	53

(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		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J, °																			
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	52,5	60,5	69,3	80,7	91,0	100,0	110,8	113,2	122,9	122,4	135,2	152,6	170,4	165,0	189,1	184,2	205,8	202,2
Input power	kW	20,2	23,0	25,4	30,1	35,2	39,6	38,4	44,3	45,0	50,9	53,2	52,2	61,2	59,1	71,5	67,9	82,7	77,3
Cooling total input current	A	33,30	42,10	46,50	57,00	59,70	64,60	59,10	71,90	78,90	81,80	91,70	83,90	95,50	107,10	111,40	116,10	128,40	125,70
EER	W/W	2,60	2,63	2,73	2,68	2,59	2,53	2,88	2,55	2,73	2,40	2,54	2,92	2,79	2,79	2,64	2,71	2,49	2,62
Water flow rate system side	l/h	9.048	10.428	11.932	13.896	15.671	17.215	19.059	19.485	21.152	21.086	23.262	26.277	29.331	28.417	32.540	31.692	35.428	34.793
Pressure drop system side	kPa	30	41	31	43	30	36	19	32	23	37	23	46	56	34	56	37	66	45
Heating performance 40 °C / 45 °C (2)																			
Heating capacity	kW	56,6	65,4	74,6	87,5	99,6	108,8	118,2	125,6	132,1	137,6	146,9	162,6	183,1	176,7	203,0	195,8	222,4	214,4
Input power	kW	17,4	20,2	22,3	26,5	31,5	34,4	35,9	38,0	40,7	42,2	45,2	50,3	57,4	54,5	62,7	59,0	69,8	64,1
Heating total input current	A	28,90	39,90	44,20	54,30	59,30	61,60	58,90	68,30	78,90	75,30	87,60	87,10	96,10	108,70	105,40	112,30	116,80	116,40
COP	W/W	3,26	3,24	3,35	3,30	3,16	3,17	3,30	3,31	3,24	3,26	3,25	3,23	3,19	3,24	3,24	3,32	3,19	3,35
Water flow rate system side	l/h	9.816	11.328	12.928	15.158	17.265	18.855	20.522	21.779	22.925	23.855	25.482	28.203	31.767	30.659	35.221	33.974	38.576	37.206
Pressure drop system side	kPa	36	48	38	51	36	43	21	40	27	48	28	54	67	41	67	45	80	53

(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		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J, °																			
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	-	-	-	-	96,4	106,6	115,8	122,0	128,8	133,3	146,8	160,1	178,0	170,7	199,5	191,8	219,8	212,0
Input power	kW	-	-	-	-	32,6	36,6	37,2	39,7	43,3	45,5	48,6	49,8	57,4	56,7	66,3	64,4	75,9	72,5
Cooling total input current	A	-	-	-	-	60,00	64,00	60,50	69,90	80,40	78,30	90,40	85,00	94,40	108,00	108,40	115,60	123,00	123,60
EER	W/W	-	-	-	-	2,95	2,91	3,11	3,07	2,97	2,93	3,02	3,21	3,10	3,01	3,01	2,98	2,90	2,93
Water flow rate system side	l/h	-	-	-	-	16.583	18.342	19.918	21.002	22.155	22.958	25.273	27.557	30.631	29.392	34.336	33.010	37.829	36.487
Pressure drop system side	kPa	-	-	-	-	23	28	17	29	21	35	28	40	49	33	54	39	66	48
Heating performance 40 °C / 45 °C (2)																			
Heating capacity	kW	-	-	-	-	103,0	113,7	119,7	126,6	133,9	138,9	155,5	162,3	181,1	175,3	200,6	195,0	219,9	213,7
Input power	kW	-	-	-	-	31,0	33,8	35,6	37,4	40,4	41,5	47,0	49,1	55,3	53,3	60,9	57,8	67,5	62,7
Heating total input current	A	-	-	-	-	58,90	61,30	58,50	67,80	78,60	74,70	91,20	85,80	93,20	107,00	102,80	110,30	113,70	114,20
COP	W/W	-	-	-	-	3,32	3,36	3,36	3,39	3,31	3,35	3,31	3,30	3,27	3,29	3,29	3,37	3,26	3,41
Water flow rate system side	l/h	-	-	-	-	17.866	19.723	20.784	21.964	23.234	24.088	26.976	28.153	31.410	30.409	34.811	33.832	38.148	37.079
Pressure drop system side	kPa	-	-	-	-	27	32	19	32	23	39	31	42	52	35	57	41	68	49

(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		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J, °																			
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	55,1	61,1	71,0	82,7	93,8	103,3	111,9	118,0	124,0	128,3	144,2	154,7	173,0	166,6	192,6	186,2	210,5	202,8
Input power	kW	19,3	22,3	24,4	28,6	33,0	37,4	38,2	40,8	44,9	46,7	48,9	50,9	58,9	57,3	68,8	65,7	79,3	75,4
Cooling total input current	A	32,30	42,10	46,50	55,60	58,00	62,50	60,00	68,70	79,80	77,80	86,90	82,40	93,20	105,70	108,50	114,30	124,70	123,50
EER	W/W	2,85	2,75	2,91	2,89	2,84	2,76	2,93	2,89	2,76	2,75	2,95	3,04	2,94	2,91	2,80	2,83	2,65	2,69
Water flow rate system side	l/h	9.484	10.522	12.223	14.246	16.136	17.773	19.250	20.314	21.332	22.097	24.814	26.647	29.783	28.680	33.149	32.040	36.227	34.901
Pressure drop system side	kPa	20	24	24	33	22	26	16	27	19	32	26	38	47	31	51	36	60	44
Heating performance 40 °C / 45 °C (2)																			
Heating capacity	kW	58,8	65,4	76,6	88,8	103,0	113,7	119,7	126,6	133,9	138,9	155,5	162,3	181,1	175,3	200,6	195,0	219,9	213,7
Input power	kW	17,2	19,7	22,5	26,5	31,0	33,8	35,6	37,4	40,4	41,5	47,0	49,1	55,3	53,3	60,9	57,8	67,5	62,7
Heating total input current	A	29,60	39,50	45,40	54,40	58,90	61,30	58,50	67,80	78,60	74,70	91,20	85,80	93,20	107,00	102,80	110,30	113,70	114,20
COP	W/W	3,42	3,32	3,40	3,35	3,32	3,36	3,36	3,39	3,31	3,35	3,31	3,30	3,27	3,29	3,29	3,37	3,26	3,41
Water flow rate system side	l/h	10.207	11.335	13.280	15.399	17.866	19.723	20.784	21.964	23.234	24.088	26.976	28.153	31.410	30.409	34.811	33.832	38.148	37.079
Pressure drop system side	kPa	23	28	29	39	27	32	19	32	23	39	31	42	52	35	57	41	68	49

(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 DATA

Size			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J																				
SEER - 12/7 (EN14825: 2018)																				
SEER	°	W/W	-	-	-	-	4,09	4,03	4,16	4,19	4,03	4,14	4,08	4,42	4,30	4,11	4,19	4,17	4,05	4,05
	A	W/W	-	-	-	-	4,37	4,32	4,24	4,55	4,19	4,45	4,32	4,65	4,55	4,38	4,56	4,43	4,36	4,32
	E	W/W	4,48	4,41	4,46	4,45	4,42	4,30	4,20	4,49	4,15	4,29	4,28	4,61	4,44	4,33	4,45	4,39	4,30	4,27
	L	W/W	4,25	4,18	4,33	4,20	4,16	4,08	4,12	4,20	3,99	4,09	4,03	4,37	4,25	4,07	4,14	4,12	4,00	4,01

(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			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Seasonal efficiency	°	%	-	-	-	-	160,79	158,18	163,50	164,68	158,18	162,79	160,04	173,88	168,95	161,38	164,45	163,61	159,10	159,09
	A	%	-	-	-	-	171,61	169,66	166,71	178,87	164,61	174,85	169,79	182,96	178,89	172,10	179,22	174,35	171,42	169,68
	E	%	176,25	173,30	175,34	174,86	173,70	169,14	165,07	176,44	162,96	168,67	168,19	181,41	174,69	170,35	174,84	172,55	168,97	167,89
	L	%	167,12	164,08	170,10	165,12	163,24	160,25	161,85	164,97	156,63	160,53	158,24	171,94	167,01	159,69	162,67	161,94	156,94	157,45
Water Regulation (1)	°,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
	E,L	type	VW/VO																	
Performance in average ambient conditions (average) - 35 °C (2)																				
Efficiency energy class	°,A																			
	E,L		A+	A+	A+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pdesignh	°	kW	-	-	-	-	88,70	97,30	103,70	109,40	115,90	119,50	128,80	141,30	159,70	154,10	178,90	171,40	193,80	188,00
	A	kW	-	-	-	-	91,70	101,70	105,00	110,30	117,40	121,50	136,40	141,20	158,10	153,80	176,90	170,70	191,80	187,50
	E	kW	52,40	58,20	68,20	78,80	91,70	101,70	105,00	110,30	117,40	121,50	136,40	141,20	158,10	153,80	176,90	170,70	191,80	187,50
	L	kW	50,40	58,20	66,30	77,70	88,70	97,30	103,70	109,40	115,90	119,50	128,80	141,30	159,70	154,10	178,90	171,40	193,80	188,00
SCOP	°	W/W	-	-	-	-	3,61	3,66	3,53	3,66	3,49	3,71	3,49	3,57	3,68	3,42	3,65	3,52	3,52	3,56
	A	W/W	-	-	-	-	3,70	3,80	3,60	3,80	3,59	3,81	3,59	3,70	3,76	3,53	3,77	3,63	3,67	3,64
	E	W/W	4,10	4,04	4,06	3,99	3,70	3,80	3,60	3,80	3,59	3,81	3,59	3,70	3,76	3,53	3,77	3,63	3,67	3,64
	L	W/W	3,95	3,90	3,91	3,91	3,61	3,66	3,53	3,66	3,49	3,71	3,49	3,57	3,68	3,42	3,65	3,52	3,52	3,56
ηsh	°	%	-	-	-	-	141,22	143,24	138,05	143,39	136,79	145,60	136,47	139,95	144,09	133,95	142,90	137,98	137,66	139,34
	A	%	-	-	-	-	145,06	148,97	141,05	148,97	140,57	149,45	140,52	145,03	147,42	138,16	147,84	142,13	143,84	142,66
	E	%	160,98	158,74	159,47	156,71	145,06	148,97	141,05	148,97	140,57	149,45	140,52	145,03	147,42	138,16	147,84	142,13	143,84	142,66
	L	%	154,93	152,87	153,48	153,27	141,22	143,24	138,05	143,39	136,79	145,60	136,47	139,95	144,09	133,95	142,90	137,98	137,66	139,34
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
	E,L	type	FW/VO																	
Performance in average ambient conditions (average) - 55 °C (3)																				
Efficiency energy class	°,A																			
	E		A++	A++	A++	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pdesignh	°	kW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	kW	-	-	-	-	91,80	103,10	104,14	110,60	116,42	122,00	135,18	139,10	154,10	151,39	175,90	171,11	187,20	189,46
	E	kW	52,40	58,20	68,10	78,30	91,80	103,10	104,14	110,60	116,42	122,00	135,18	139,10	154,10	151,39	175,90	171,11	187,20	189,46
	L	kW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCOP	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	W/W	-	-	-	-	2,99	3,13	2,86	3,12	2,86	3,13	2,87	3,02	2,98	2,85	3,01	2,99	2,92	3,06
	E	W/W	3,16	3,12	3,14	3,12	2,99	3,13	2,86	3,12	2,86	3,13	2,87	3,02	2,98	2,85	3,01	2,99	2,92	3,06
	L	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ηsh	°	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	%	-	-	-	-	116,70	122,30	111,36	121,80	111,35	122,00	111,95	117,70	116,10	110,82	117,40	116,66	113,90	119,55
	E	%	123,40	121,90	122,70	121,60	116,70	122,30	111,36	121,80	111,35	122,00	111,95	117,70	116,10	110,82	117,40	116,66	113,90	119,55
	L	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°	type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	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
	E	type	FW/VO																	
	L	type	-																	

(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			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: °																				
SEER - 12/7 (EN14825: 2018)																				
SEER	°	W/W	-	-	-	-	3,98	3,91	4,03	4,07	3,90	4,02	3,95	4,29	4,17	3,99	4,07	4,04	3,94	3,93
	A	W/W	-	-	-	-	4,24	4,19	4,12	4,42	4,07	4,32	4,19	4,52	4,42	4,25	4,42	4,30	4,23	4,19
	E	W/W	4,44	4,37	4,41	4,41	4,29	4,18	4,08	4,36	4,02	4,17	4,15	4,48	4,31	4,21	4,32	4,26	4,18	4,14
	L	W/W	4,21	4,13	4,29	4,16	4,04	3,96	4,00	4,08	3,87	3,97	3,91	4,25	4,12	3,95	4,02	4,00	3,88	3,90
Seasonal efficiency	°	%	-	-	-	-	156,12	153,57	158,22	159,98	153,11	158,00	155,20	168,74	163,96	156,48	159,65	158,58	154,48	154,32
	A	%	-	-	-	-	166,61	164,76	161,68	173,70	159,69	169,73	164,68	177,62	173,67	166,92	173,96	169,09	166,38	164,55
	E	%	174,52	171,65	173,60	173,24	168,66	164,18	160,02	171,22	157,92	163,76	163,10	176,13	169,55	165,22	169,63	167,33	164,02	162,77
	L	%	165,57	162,26	168,45	163,56	158,56	155,58	156,91	160,37	151,81	155,76	153,41	166,87	161,90	154,83	157,92	156,99	152,27	152,84
Water Regulation (1)	°,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
	E,L	type	VW/VO																	
Performance in average ambient conditions (average) - 35 °C (2)																				
Efficiency energy class	°,A																			
	E,L		A+	A+	A+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pdesignh	°	kW	-	-	-	-	88,70	97,30	103,70	109,40	115,90	119,50	128,80	141,30	159,70	154,10	178,90	171,40	193,80	188,00
	A	kW	-	-	-	-	91,70	101,70	105,00	110,30	117,40	121,50	136,40	141,20	158,10	153,80	176,90	170,70	191,80	187,50
	E	kW	52,40	58,20	68,20	78,80	91,70	101,70	105,00	110,30	117,40	121,50	136,40	141,20	158,10	153,80	176,90	170,70	191,80	187,50
	L	kW	50,40	58,20	66,30	77,70	88,70	97,30	103,70	109,40	115,90	119,50	128,80	141,30	159,70	154,10	178,90	171,40	193,80	188,00

(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			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
SCOP	°	W/W	-	-	-	-	3,50	3,55	3,36	3,55	3,33	3,61	3,32	3,47	3,57	3,23	3,54	3,32	3,41	3,36
	A	W/W	-	-	-	-	3,59	3,69	3,43	3,69	3,42	3,70	3,38	3,59	3,65	3,33	3,66	3,42	3,56	3,44
	E	W/W	4,06	4,00	4,02	3,91	3,59	3,69	3,43	3,69	3,42	3,70	3,38	3,59	3,65	3,33	3,66	3,42	3,56	3,44
	L	W/W	3,91	3,86	3,87	3,83	3,50	3,55	3,36	3,55	3,33	3,61	3,32	3,47	3,57	3,23	3,54	3,32	3,41	3,36
ηsh	°	%	-	-	-	-	137,02	138,98	131,33	139,13	130,13	141,27	129,82	135,79	139,81	126,20	138,65	130,00	133,56	131,28
	A	%	-	-	-	-	140,75	144,54	134,19	144,54	133,74	145,01	132,39	140,72	143,04	130,17	143,45	133,92	139,56	134,41
	E	%	159,35	157,14	157,86	153,58	140,75	144,54	134,19	144,54	133,74	145,01	132,39	140,72	143,04	130,17	143,45	133,92	139,56	134,41
	L	%	153,37	151,32	151,94	150,20	137,02	138,98	131,33	139,13	130,13	141,27	129,82	135,79	139,81	126,20	138,65	130,00	133,56	131,28
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
	E,L	type										FW/VO								
Performance in average ambient conditions (average) - 55 °C (3)																				
Efficiency energy class	°,A,L																			
	E		A++	A++	A++	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pdesignh	°	kW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	kW	-	-	-	-	91,80	103,10	-	110,60	-	122,00	-	139,10	154,10	-	175,90	-	187,20	-
	E	kW	52,40	58,20	68,10	78,30	91,80	103,10	-	110,60	-	122,00	-	139,10	154,10	-	175,90	-	187,20	-
	L	kW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCOP	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	W/W	-	-	-	-	2,91	3,05	-	3,03	-	3,04	-	2,93	2,89	-	2,92	-	2,84	-
	E	W/W	3,13	3,10	3,11	3,06	2,91	3,05	-	3,03	-	3,04	-	2,93	2,89	-	2,92	-	2,84	-
	L	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ηsh	°	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	%	-	-	-	-	113,40	118,80	-	118,20	-	118,50	-	114,20	112,60	-	113,90	-	110,40	-
	E	%	122,20	120,80	121,50	119,30	113,40	118,80	-	118,20	-	118,50	-	114,20	112,60	-	113,90	-	110,40	-
	L	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°	type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	type	-	-	-	-	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	-
	L	type										-								

(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			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Electric data																				
Maximum current (FLA)	°	A	-	-	-	-	73,5	79,1	80,5	88,3	97,2	97,4	113,5	111,5	122,6	132,7	139,4	144,0	156,1	155,3
	A	A	-	-	-	-	73,5	79,1	80,5	88,3	97,2	97,4	116,4	111,5	122,6	132,7	139,4	144,0	156,1	155,3
	E	A	41,6	49,9	59,5	67,6	73,5	79,1	80,5	88,3	97,2	97,4	116,4	111,5	122,6	132,7	139,4	144,0	156,1	155,3
	L	A	40,2	49,9	58,1	67,6	73,5	79,1	80,5	88,3	97,2	97,4	113,5	111,5	122,6	132,7	139,4	144,0	156,1	155,3
Peak current (LRA)	°	A	-	-	-	-	276,8	282,5	200,8	329,5	221,3	338,6	268,5	396,5	407,7	287,7	601,7	347,4	618,4	358,7
	A	A	-	-	-	-	276,8	282,5	200,8	329,5	221,3	338,6	271,4	396,5	407,7	287,7	601,7	347,4	618,4	358,7
	E	A	161,9	174,0	214,4	222,6	276,8	282,5	200,8	329,5	221,3	338,6	271,4	396,5	407,7	287,7	601,7	347,4	618,4	358,7
	L	A	160,5	174,0	213,0	222,6	276,8	282,5	200,8	329,5	221,3	338,6	268,5	396,5	407,7	287,7	601,7	347,4	618,4	358,7

Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J, °																				
Compressor																				
Type	°,A,E,L	type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor regulation	°,A,E,L	type	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off
Number	°,A,E,L	no.	2	2	2	2	2	2	4	2	4	2	4	2	2	4	2	4	2	4
Circuits	°,A,E,L	no.	1	1	1	1	1	1	2	1	2	1	2	1	1	2	1	2	1	2
Refrigerant	°,A,E,L	type	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
Total refrigerant charge (1)	°	kg	-	-	-	-	9,50	9,50	13,60	12,20	14,20	12,20	14,20	17,70	17,70	16,20	17,70	18,00	17,70	18,00
	A	kg	-	-	-	-	12,80	13,30	14,80	13,30	15,40	13,30	17,40	18,20	18,20	16,60	18,40	20,00	18,40	19,00
	E	kg	6,80	8,30	11,20	11,10	12,80	13,30	14,80	13,30	15,40	13,30	17,40	18,20	18,20	16,60	18,40	20,00	18,40	19,00
	L	kg	6,50	6,80	7,40	7,40	9,50	9,50	13,60	12,20	14,20	12,20	14,20	17,70	17,70	16,20	17,70	18,00	17,70	18,00
Potential global heating (GWP)	°		-	-	-	-	675	675	675	675	675	675	675	675	675	675	675	675	675	675
	A,E,L		675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675
Equivalent CO_2	°	tCO_2eq	-	-	-	-	6,41	6,41	9,18	8,24	9,59	8,24	9,59	11,95	11,95	10,94	11,95	12,15	11,95	12,15
	A	tCO_2eq	0,00	0,00	0,00	0,00	8,64	8,98	9,99	8,98	10,40	8,98	11,75	12,29	12,29	11,21	12,42	13,50	12,42	12,83
	E	tCO_2eq	4,59	5,60	7,56	7,49	8,64	8,98	9,99	8,98	10,40	8,98	11,75	12,29	12,29	11,21	12,42	13,50	12,42	12,83
	L	tCO_2eq	4,39	4,59	5,00	5,00	6,41	6,41	9,18	8,24	9,59	8,24	9,59	11,95	11,95	10,94	11,95	12,15	11,95	12,15

(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			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
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	1	1	1	1	1	1	1
Connections (in/out)	°,A,E,L	Type	Grooved joints																	
Sizes (in/out)	°,A	Ø	-	-	-	-	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2	2"1/2
	E,L	Ø	2"1/2																	

Fans

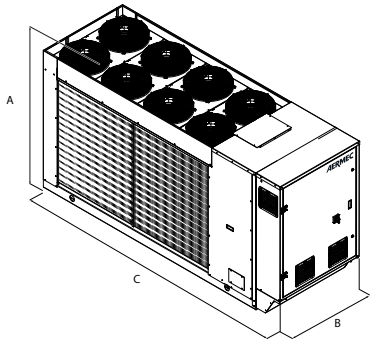
Size			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fan																				
Type	°,A,E,L	type	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Number	°	no.	-	-	-	-	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	A	no.	-	-	-	-	2	2	2	2	2	2	3	3	3	3	3	3	3	3
	E	no.	6	6	8	8	2	2	2	2	2	2	3	3	3	3	3	3	3	3
	L	no.	4	6	6	8	2	2	2	2	2	2	2	3	3	3	3	3	3	3
Air flow rate	°	m^3/h	-	-	-	-	42831	42819	40170	41067	40170	41067	38299	62024	62022	60681	62022	60681	62022	60681
	A	m^3/h	-	-	-	-	41097	41097	38299	39483	38299	39483	60681	59734	59721	57995	59721	57995	59721	57995
	E	m^3/h	21224	21224	28177	25805	31035	31035	28870	29848	28870	29848	45978	45211	45211	43804	45211	43804	45211	43804
	L	m^3/h	15552	21229	22716	28186	32592	32592	30388	31000	30388	31000	28869	47029	47029	45980	47029	45980	47029	45980

Sound data

Size			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J, °																				
Sound data calculated in cooling mode (1)																				
Sound power level	°	dB(A)	-	-	-	-	87,2	87,5	86,5	87,7	87,1	87,9	87,1	89,4	89,5	88,8	90,0	90,1	90,1	90,0
	A	dB(A)	-	-	-	-	87,2	87,5	86,5	87,7	87,1	87,9	88,8	89,4	89,5	88,8	90,0	90,1	90,1	90,0
	E	dB(A)	73,6	74,1	74,9	75,1	82,8	83,5	76,6	83,9	77,3	84,3	78,4	85,5	85,6	78,6	86,7	84,6	87,3	86,2
	L	dB(A)	73,0	74,1	74,5	75,1	82,8	83,5	76,6	83,9	77,3	84,3	77,7	85,5	85,6	78,6	86,7	84,6	87,3	86,2

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



Size			0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Dimensions and weights																				
A	°	mm	-	-	-	-	1907	1907	1907	1907	1907	1907	1907	1900	1900	1900	1900	1900	1900	1900
	A	mm	-	-	-	-	1907	1907	1907	1907	1907	1907	1900	1900	1900	1900	1900	1900	1900	1900
	E	mm	1652	1658	1658	1658	1907	1907	1907	1907	1907	1907	1900	1900	1900	1900	1900	1900	1900	1900
	L	mm	1652	1652	1658	1658	1907	1907	1907	1907	1907	1907	1907	1900	1900	1900	1900	1900	1900	1900
B	°,A	mm	-	-	-	-	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
	E,L	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
C	°	mm	-	-	-	-	3567	3567	3567	3567	3567	3567	3567	4368	4368	4368	4368	4368	4368	4368
	A	mm	-	-	-	-	3567	3567	3567	3567	3567	3567	4368	4368	4368	4368	4368	4368	4368	4368
	E	mm	2818	3317	3317	3317	3567	3567	3567	3567	3567	3567	4368	4368	4368	4368	4368	4368	4368	4368
	L	mm	2818	2818	3317	3317	3567	3567	3567	3567	3567	3567	3567	4368	4368	4368	4368	4368	4368	4368

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