

NRG 0282-0804

Air-water chiller

Cooling capacity 55,8 ÷ 224,6 kW



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



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with streamlined scroll compressors used with R32 gas (A2L).

Condensing coil with copper pipes and aluminium louvers, plate heat exchanger.

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
- N Silenced very high efficiency
- U Very high efficiency

FEATURES

Operating field

Operation at full load up to 50°C external air temperature. Unit can produce chilled water up to -10 °C.

For more information refer to the selection program and to the dedicated 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 CO₂ values.

- *The leak detector is supplied as per standard.*

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 and to guarantee operation of the unit even in critical conditions.*

CONTROL

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.
- **Floating HP control:** the function can be activated with inverter fans or with DCPX which allows unit operation to be optimised at any operating point through continuous modulation of the fan speed. In addition, the use of inverter fans ensures an increase in energy efficiency 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.

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.

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,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERBAC-ONE	°A					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E,L,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERBACP	°A					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E,L,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERLINK	°A					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E,L,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERNET	°A					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E,L,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER-EVO	°A					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E,L,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PGD1	°A					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E,L,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SGD	°A					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	E,L,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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,N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	U	*	*	*	*	*	*	*	*	*	*

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	0282	0302	0332	0352	0502	0552	0554	0602	0604
Fans: M									
° A	-	-	-	-	DCPX146	DCPX146	DCPX147	DCPX146	DCPX147
E, L	-	-	-	-	As standard				
N	-	-	-	As standard					
U	-	-	-	DCPX146	DCPX146	DCPX146	DCPX147	DCPX147	DCPX147
Fans: °									
E, L	DCPX145	DCPX145	DCPX145	DCPX145	-	-	-	-	-
N	DCPX145	DCPX145	DCPX145	-	-	-	-	-	-
Ver	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: M									
° A	DCPX146	DCPX147							
E	As standard								
L	As standard	-	-						
N	As standard	As standard	As standard	-	-	-	-	-	-
U	DCPX147	DCPX147	DCPX147	-	-	-	-	-	-

Antivibration

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Integrated hydronic kit: 00, 11, 12, 13, 14, P1, P2, P3, P4																		
°	-	-	-	-	VT11	VT22												
A	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT22							
E	VT17	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT22							
L	VT17	VT17	VT13	VT13	VT11	VT22												
N	VT13	VT13	VT13	VT11	VT11	VT11	VT22											
U	-	-	-	VT11	VT11	VT22												
Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08, K1, K2, K3, K4, W1, W2, W3, W4																		
°	-	-	-	-	VT11	VT22												
A	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT22							
E	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT22							
L	VT13	VT13	VT13	VT13	VT11	VT22												
N	VT13	VT13	VT13	VT11	VT11	VT11	VT22											
U	-	-	-	VT11	VT11	VT11	VT22											

Anti-intrusion grid

Ver	0282	0302	0332	0352	0502	0552	0554	0602	0604	0652
° A	-	-	-	-	-	GP2 x 2 (1)				
E	GP3	GP4	GP4	GP4	GP4	GP2 x 2 (1)				
L	GP3	GP3	GP4	GP4	GP4	GP2 x 2 (1)				
N	GP4	GP4	GP4	GP2 x 2 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)			
U	-	-	-	GP2 x 2 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)			

(1) x _ indicates the quantity to buy
The accessory cannot be fitted on the configurations indicated with -

Ver	0654	0682	0702	0704	0752	0754	0802	0804
° L	GP2 x 2 (1)	GP2 x 3 (1)						
A, E, N, U	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	0652
° A	-	-	DRENRG332N	-	DRENRG502	DRENRG552	DRENRG554	DRENRG602	DRENRG604	DRENRG652
E, L, N	DRENRG282	DRENRG302	DRENRG332N	DRENRG352	DRENRG502	DRENRG552	DRENRG554	DRENRG602	DRENRG604	DRENRG652
U	-	-	DRENRG332N	DRENRG352	DRENRG502	DRENRG552	DRENRG554	DRENRG602	DRENRG604	DRENRG652

The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

Ver	0654	0682	0702	0704	0752	0754	0802	0804
° A, E, L, N, U	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	0652
° A	-	-	RIFNRG332N	-	RIFNRG502	RIFNRG552	RIFNRG554	RIFNRG602	RIFNRG604	RIFNRG652
E, L, N	RIFNRG282	RIFNRG302	RIFNRG332N	RIFNRG352	RIFNRG502	RIFNRG552	RIFNRG554	RIFNRG602	RIFNRG604	RIFNRG652
U	-	-	RIFNRG332N	RIFNRG352	RIFNRG502	RIFNRG552	RIFNRG554	RIFNRG602	RIFNRG604	RIFNRG652

The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

Ver	0654	0682	0702	0704	0752	0754	0802	0804
° A, E, L, N, U	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 , E , L , N , U	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

CONFIGURATOR

■ For sizes ranging from 0502 to 0804 (versions °, A, U), 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
	Size
4,5,6,7	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
	° Cooling only
10	Heat recovery
	D With desuperheater (3)
	T With total recovery
	° Without heat recovery
11	Version
	° Standard
	A High efficiency
	E Silenced high efficiency (4)
	L Standard silenced (4)
	N Silenced very high efficiency (4)
	U Very high efficiency
12	Coils
	R Copper pipes-copper fins
	V Copper - coated aluminium
	° Copper - aluminium
13	Fans
	J Inverter (5)
	M Increased (6)
	° Standard (7)
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

Field	Description
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 (8)
06	Storage tank with holes for heaters and pump low head + stand-by pump (8)
07	Storage tank with holes for heaters and single high head pump (8)
08	Storage tank with holes for heaters and pump high head + stand-by pump (8)
	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
W2	Double low head pump + Storage tank + variable speed inverter
W3	Single high head pump + Storage tank + variable speed inverter
W4	Double high head pump + Storage tank + variable speed inverter

(1) Water produced from 4 °C ÷ 20 °C

(2) Water produced from 8 °C to -10 °C. The option is not compatible with hydronic kits W1-W2-W3-W4.

(3) Warning: on the recovery side, a minimum input temperature of 35 °C must always be guaranteed on the heat exchanger. For more information about the unit operating range, refer to the Magellano selection program

(4) The size 0282-0302-0332-0352 only available in low noise versions.

(5) As standard in size 0702-0704-0752-0754-0802-0804 in the version U and N.

(6) As standard in sizes from 0502 to 0804 version ° - L - A - E and in sizes from 0352 to 0682 and in sizes from 0554 to 0654 version N - U.

(7) As standard in sizes from 0282 to 0352 versions E - L and in size from 0282 to 0332 version N

(8) 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.

PERFORMANCE SPECIFICATIONS

NRG - °

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	-	-	-	-	100,8	110,6	117,6	127,1	130,0	138,5	143,5	161,9	182,0	171,7	203,9	194,0	222,4	212,3
Input power	kW	-	-	-	-	33,4	37,8	37,8	39,7	44,2	45,1	50,7	52,5	59,4	57,4	69,6	66,5	80,4	74,8
Cooling total input current	A	-	-	-	-	59,00	64,00	59,00	68,00	79,00	77,00	91,00	88,00	95,00	108,00	111,00	117,00	127,00	126,00
EER	W/W	-	-	-	-	3,02	2,92	3,11	3,20	2,94	3,07	2,83	3,08	3,06	2,99	2,93	2,92	2,77	2,84
Water flow rate system side	l/h	-	-	-	-	17.363	19.059	20.268	21.893	22.383	23.841	24.712	27.874	31.338	29.554	35.100	33.389	38.287	36.547
Pressure drop system side	kPa	-	-	-	-	40	49	46	44	56	53	50	54	69	71	68	67	81	80

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - L

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	55,8	63,8	73,3	84,5	98,9	108,2	113,4	123,5	123,9	132,9	139,3	159,0	178,5	168,5	198,8	189,6	215,5	206,9
Input power	kW	19,7	22,1	24,4	28,6	33,9	38,6	38,5	40,9	45,2	46,7	53,6	53,5	60,3	59,0	71,8	68,2	82,6	77,9
Cooling total input current	A	32,00	41,00	45,00	55,00	58,00	63,00	59,00	68,00	79,00	77,00	92,00	88,00	96,00	107,00	112,00	117,00	130,00	127,00
EER	W/W	2,83	2,88	3,01	2,95	2,92	2,80	2,95	3,02	2,74	2,85	2,60	2,97	2,96	2,85	2,77	2,78	2,61	2,66
Water flow rate system side	l/h	9.604	10.989	12.618	14.572	17.043	18.647	19.537	21.269	21.332	22.880	23.984	27.367	30.726	29.004	34.224	32.640	37.100	35.616
Pressure drop system side	kPa	35	46	37	50	39	46	45	43	54	50	47	52	66	69	65	64	76	76

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - A

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	-	-	-	-	105,3	116,3	118,7	129,7	132,2	141,2	151,3	167,9	186,4	177,0	208,8	199,2	228,6	218,5
Input power	kW	-	-	-	-	31,0	34,9	37,7	40,1	43,8	45,6	47,8	51,1	57,3	56,2	67,0	64,9	77,2	73,6
Cooling total input current	A	-	-	-	-	56,00	60,00	60,00	69,00	80,00	78,00	88,00	85,00	93,00	106,00	108,00	115,00	124,00	123,00
EER	W/W	-	-	-	-	3,39	3,33	3,14	3,23	3,02	3,09	3,16	3,29	3,25	3,15	3,12	3,07	2,96	2,97
Water flow rate system side	l/h	-	-	-	-	18.133	20.029	20.437	22.332	22.778	24.316	26.053	28.900	32.076	30.475	35.940	34.279	39.342	37.605
Pressure drop system side	kPa	-	-	-	-	30	36	34	34	42	41	56	45	57	56	62	59	74	72

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - E

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	58,7	64,8	74,8	88,1	101,0	112,1	115,3	124,8	126,8	134,9	147,6	161,6	180,1	171,4	201,8	191,5	216,6	208,9
Input power	kW	18,7	21,5	23,3	27,6	31,6	35,8	38,6	40,7	45,6	46,8	49,3	52,1	59,4	58,0	70,9	67,4	81,8	77,1
Cooling total input current	A	31,00	41,00	45,00	54,00	55,00	60,00	61,00	70,00	81,00	79,00	87,00	85,00	95,00	106,00	111,00	116,00	129,00	126,00
EER	W/W	3,14	3,02	3,21	3,19	3,20	3,13	2,98	3,07	2,78	2,88	2,99	3,10	3,03	2,96	2,85	2,84	2,65	2,71
Water flow rate system side	l/h	10.097	11.156	12.874	15.166	17.382	19.311	19.858	21.482	21.840	23.238	25.406	27.822	31.004	29.499	34.739	32.965	37.282	35.953
Pressure drop system side	kPa	24	29	28	37	28	34	32	32	38	37	53	43	53	52	57	55	67	65

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - U

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	-	-	-	94,0	105,1	116,7	122,4	134,4	135,9	148,2	154,1	170,1	192,0	179,4	215,0	203,9	236,8	224,6
Input power	kW	-	-	-	26,8	30,6	34,4	36,1	38,2	41,9	42,9	46,5	49,5	57,5	56,2	66,4	63,6	75,7	72,1
Cooling total input current	A	-	-	-	53,00	57,00	61,00	58,00	68,00	78,00	76,00	87,00	83,00	92,00	106,00	106,00	114,00	120,00	121,00
EER	W/W	-	-	-	3,51	3,43	3,39	3,39	3,52	3,24	3,45	3,32	3,44	3,34	3,19	3,24	3,20	3,13	3,11
Water flow rate system side	l/h	-	-	-	16.172	18.095	20.096	21.081	23.146	23.408	25.528	26.524	29.288	33.054	30.884	37.012	35.090	40.762	38.655
Pressure drop system side	kPa	-	-	-	24	30	28	37	38	46	36	43	47	53	58	66	59	80	72

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - N

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Cooling performance 12 °C / 7 °C (1)																			
Cooling capacity	kW	59,7	66,0	76,0	92,0	103,0	114,9	120,1	131,5	132,9	144,6	148,5	163,6	188,0	175,9	209,5	199,0	227,4	218,5
Input power	kW	18,1	20,8	23,3	27,9	31,8	36,1	37,0	39,2	43,2	44,5	48,5	52,1	57,9	56,8	67,6	65,1	78,0	74,5
Cooling total input current	A	30,00	41,00	45,00	52,00	57,00	62,00	57,00	67,00	78,00	75,00	88,00	85,00	92,00	106,00	107,00	114,00	123,00	123,00
EER	W/W	3,29	3,17	3,26	3,30	3,24	3,18	3,25	3,35	3,07	3,25	3,06	3,14	3,25	3,10	3,10	3,06	2,92	2,93
Water flow rate system side	l/h	10.270	11.372	13.087	15.837	17.726	19.768	20.680	22.650	22.893	24.895	25.579	28.156	32.351	30.273	36.062	34.256	39.138	37.603
Pressure drop system side	kPa	25	31	29	23	28	26	36	36	44	34	41	44	50	56	63	57	75	68

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY DATA BY TYPE OF FAN

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	-	-	-	-	4,41	4,44	4,55	4,60	4,54	4,47	4,49	4,52	4,54	4,51	4,48	4,50	4,39	4,50
	A	W/W	-	-	-	-	4,58	4,66	4,57	4,70	4,55	4,70	4,55	4,75	4,70	4,62	4,69	4,57	4,49	4,50
	E	W/W	4,62	4,47	4,63	4,59	4,63	4,58	4,57	4,65	4,56	4,45	4,57	4,71	4,53	4,59	4,52	4,58	4,38	4,49
	L	W/W	4,39	4,34	4,54	4,46	4,44	4,39	4,53	4,45	4,53	4,38	4,48	4,43	4,40	4,52	4,40	4,51	4,09	4,23
	N	W/W	4,81	4,75	4,77	4,84	4,80	4,67	4,69	4,92	4,64	4,80	4,67	4,91	4,78	4,69	4,78	4,69	4,57	4,47
	U	W/W	-	-	-	-	4,82	4,82	4,86	4,67	4,81	4,63	4,87	4,69	4,98	4,79	4,64	4,82	4,63	4,68
Seasonal efficiency	°	%	-	-	-	-	173,58	174,74	179,10	180,83	178,45	175,82	176,71	177,88	178,52	177,28	176,23	177,05	172,66	177,16
	A	%	-	-	-	-	180,10	183,49	179,80	185,12	179,05	185,07	178,84	186,91	184,84	181,88	184,70	179,97	176,68	176,85
	E	%	181,75	175,68	182,02	180,42	182,20	180,05	179,93	182,95	179,47	174,81	179,83	185,22	178,07	180,55	177,98	180,12	172,15	176,51
	L	%	172,43	170,56	178,42	175,59	174,74	172,57	178,33	175,12	178,16	172,14	176,27	174,27	173,12	177,83	173,00	177,48	160,63	166,17
	N	%	189,37	186,85	187,78	190,45	188,97	183,88	184,78	193,73	182,79	189,16	183,84	193,40	188,13	184,55	188,20	184,44	179,87	175,93
	U	%	-	-	-	-	189,92	189,84	191,24	183,76	189,36	182,31	191,78	184,50	196,29	188,73	182,61	189,96	182,12	184,15
Water Regulation (1)	°A	type	-	-	-	-	VW/VO													
	E,L,N	type	VW/VO																	
	U	type	-	-	-	-	VW/VO													
SEER - 23/18 (EN14825: 2018)																				
SEER	°	W/W	-	-	-	-	5,40	5,21	5,56	5,44	5,52	5,22	5,48	5,34	5,49	5,54	5,38	5,49	5,29	5,31
	A	W/W	-	-	-	-	5,67	5,55	5,69	5,60	5,67	5,25	5,63	5,67	5,71	5,71	5,65	5,60	5,44	5,32
	E	W/W	5,67	5,47	5,72	5,64	5,57	5,25	5,62	5,32	5,61	4,97	5,60	5,46	5,23	5,58	5,18	5,51	5,03	5,18
	L	W/W	5,28	5,22	5,54	5,44	5,24	4,90	5,55	5,10	5,53	4,89	5,49	5,23	5,07	5,49	5,01	5,42	4,70	4,88
	N	W/W	5,95	5,86	5,95	5,85	5,79	5,37	5,78	5,81	5,72	5,59	5,75	5,72	5,68	5,75	5,64	5,69	5,38	5,48
	U	W/W	-	-	-	-	6,03	6,00	5,79	5,87	5,73	5,82	5,45	5,87	5,98	5,85	5,78	5,83	5,70	5,67
Seasonal efficiency	°	%	-	-	-	-	213,10	205,50	219,28	214,62	217,94	205,88	216,12	210,53	216,44	218,57	212,09	216,53	208,74	209,47
	A	%	-	-	-	-	223,95	219,16	224,63	220,92	223,78	207,01	222,37	223,87	225,27	225,31	223,04	220,81	214,56	209,70
	E	%	223,84	215,94	225,95	222,42	219,91	207,09	221,91	209,69	221,54	195,67	220,84	215,54	206,14	220,21	204,27	217,37	198,40	204,20
	L	%	208,23	205,88	218,52	214,76	206,73	193,16	218,94	200,94	218,35	192,79	216,48	206,35	199,68	216,69	197,39	213,83	184,92	192,31
	N	%	235,11	231,35	234,94	231,09	228,64	211,80	228,18	229,29	225,84	220,70	227,14	225,80	224,31	226,89	222,50	224,80	212,30	216,12
	U	%	-	-	-	-	238,28	237,18	228,77	231,75	226,06	229,65	215,08	231,75	236,05	230,81	228,08	230,09	224,98	223,82
Water Regulation (1)	°A	type	-	-	-	-	VW/FO													
	E,L,N	type	VW/FO																	
	U	type	-	-	-	-	VW/FO													
SEPR - (EN 14825: 2018)																				
SEPR	°	W/W	-	-	-	-	5,78	5,60	6,35	5,79	6,38	5,73	6,34	5,66	6,07	6,34	5,81	6,03	5,78	5,94
	A	W/W	-	-	-	-	6,23	5,98	6,61	5,93	6,60	6,14	6,51	5,98	6,27	6,54	6,05	6,08	5,90	5,90
	E	W/W	6,66	6,39	6,59	6,52	6,30	6,03	6,47	5,93	6,55	5,79	6,41	6,01	6,13	6,44	5,85	6,06	5,12	5,87
	L	W/W	6,34	6,26	6,43	6,30	5,86	5,68	6,35	5,73	6,47	5,69	6,47	5,64	5,95	6,28	5,72	5,92	-	-
	N	W/W	6,87	6,70	6,81	6,88	6,47	6,14	6,58	6,20	6,54	6,21	6,57	6,17	6,54	6,56	6,25	6,19	5,93	6,35
	U	W/W	-	-	-	-	6,73	6,43	6,14	6,73	6,18	6,68	6,51	6,73	6,26	6,34	6,68	6,18	6,30	6,10
Water Regulation (1)	°A	type	-	-	-	-	FW/FO													
	E,N	type	FW/FO																	
	U	type	-	-	-	-	FW/FO													

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

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804		
Fans: M																					
SEER - 12/7 (EN14825: 2018)																					
SEER	°	W/W	-	-	-	-	4,29	4,32	4,41	4,46	4,40	4,34	4,35	4,39	4,41	4,37	4,35	4,37	4,27	4,37	
	A	W/W	-	-	-	-	4,10	4,53	4,43	4,57	4,42	4,57	4,41	4,61	4,56	4,49	4,56	4,44	4,37	4,36	
	E	W/W	-	-	-	-	4,50	4,45	4,43	4,51	4,42	4,32	4,43	4,57	4,40	4,45	4,39	4,44	4,25	4,36	
	L	W/W	-	-	-	-	4,31	4,26	4,39	4,32	4,39	4,25	4,35	4,30	4,28	4,34	4,27	4,38	3,97	4,38	
	N	W/W	-	-	-	-	4,66	4,54	4,55	4,78	4,51	4,66	4,53	4,77	-	-	-	-	-	-	-
	U	W/W	-	-	-	-	4,68	4,72	4,53	4,67	4,50	4,73	4,55	4,84	-	-	-	-	-	-	-
Seasonal efficiency	°	%	-	-	-	-	168,63	169,73	173,58	175,60	172,91	170,73	171,16	172,62	173,37	171,91	171,00	171,64	167,62	171,84	
	A	%	-	-	-	-	161,10	178,12	174,39	179,60	173,80	179,63	173,55	181,46	179,53	176,51	179,37	174,59	171,73	171,53	
	E	%	-	-	-	-	176,92	174,89	174,34	177,60	173,99	169,66	174,32	179,72	172,96	175,04	172,74	174,72	167,06	171,20	
	L	%	-	-	-	-	169,59	167,46	172,78	169,78	172,69	167,06	170,92	169,15	168,08	172,47	167,94	172,13	155,96	172,13	
	N	%	-	-	-	-	183,50	178,52	179,07	188,01	177,25	183,59	178,33	187,67	-	-	-	-	-	-	-
	U	%	-	-	-	-	184,38	185,75	178,10	183,77	176,82	186,25	178,89	190,50	-	-	-	-	-	-	-
Water Regulation (1)	°A,E,L	type	-	-	-	-	VW/VO														
	N	type	-	-	-	-	VW/VO	-	-	-	-	-	-								
	U	type	-	-	-	-	VW/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.

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804	
SEER - 23/18 (EN14825:2018)																				
SEER	°	W/W	-	-	-	-	5,26	5,07	5,39	5,29	5,35	5,08	5,31	5,19	5,34	5,37	5,22	5,32	5,15	5,15
	A	W/W	-	-	-	-	4,73	5,40	5,52	5,44	5,50	5,10	5,47	5,51	5,55	5,54	5,49	5,43	5,29	5,16
	E	W/W	-	-	-	-	5,42	5,11	5,45	5,17	5,44	4,83	5,43	5,31	5,09	5,41	5,04	5,35	4,90	5,02
	L	W/W	-	-	-	-	5,10	4,77	5,38	4,95	5,36	4,76	5,32	5,09	4,93	5,33	4,87	5,26	4,57	5,26
	N	W/W	-	-	-	-	5,63	5,22	5,60	5,64	5,55	5,44	5,58	5,56	-	-	-	-	-	-
	U	W/W	-	-	-	-	5,84	5,64	5,68	5,56	5,64	5,30	5,69	5,81	-	-	-	-	-	-
Seasonal efficiency	°	%	-	-	-	-	207,20	199,77	212,41	208,57	211,05	200,05	209,20	204,43	210,42	211,87	205,99	209,84	202,87	203,06
	A	%	-	-	-	-	186,28	212,95	217,77	214,56	217,15	201,16	215,74	217,49	219,02	218,61	216,78	214,15	208,79	203,31
	E	%	-	-	-	-	213,73	201,35	214,94	203,70	214,72	190,12	214,04	209,31	200,44	213,41	198,42	210,81	192,81	197,96
	L	%	-	-	-	-	200,82	187,64	212,01	194,99	211,51	187,33	209,76	200,46	194,10	210,04	191,74	207,30	179,78	207,30
	N	%	-	-	-	-	222,22	205,81	221,07	222,71	218,95	214,46	220,29	219,33	-	-	-	-	-	-
	U	%	-	-	-	-	230,50	222,40	224,26	219,60	222,72	209,06	224,67	229,28	-	-	-	-	-	-
Water Regulation (1)	°A	type	-	-	-	-	VW/FO													
	E,L	type	-	-	-	-	VW/FO													
	N	type	-	-	-	-	VW/FO	-	-	-	-	-	-							
	U	type	-	-	-	-	VW/FO	-	-	-	-	-	-							
SEPR - (EN 14825:2018)																				
SEPR	°	W/W	-	-	-	-	5,78	5,60	6,35	5,79	6,38	5,73	6,34	5,66	6,07	6,34	5,81	6,03	5,78	5,94
	A	W/W	-	-	-	-	6,23	5,98	6,61	5,93	6,60	6,14	6,51	5,98	6,27	6,54	6,05	6,08	5,90	5,90
	E	W/W	-	-	-	-	6,30	6,03	6,47	5,93	6,55	5,79	6,41	6,01	6,13	6,44	5,85	6,06	5,12	5,87
	L	W/W	-	-	-	-	5,86	5,68	6,35	5,73	6,47	5,69	6,47	5,64	5,95	6,28	5,72	5,92	-	-
	N	W/W	-	-	-	6,88	6,47	6,14	6,58	6,20	6,54	6,21	6,57	6,17	-	-	-	-	-	-
	U	W/W	-	-	-	6,73	6,43	6,14	6,73	6,18	6,68	6,51	6,73	6,26	-	-	-	-	-	-
Water Regulation (1)	°A,E	type	-	-	-	-	FW/FO													
	L	type	-	-	-	-	FW/FO													
	N	type	-	-	-	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	-	-	-	-	-	-
	U	type	-	-	-	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	FW/FO	-	-	-	-	-	-

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

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	°A,U	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	W/W	4,58	4,42	4,58	4,54	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L	W/W	4,34	4,30	4,49	4,42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	W/W	4,76	4,70	4,72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency	°A,U	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	%	180,04	173,96	180,20	178,61	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L	%	170,63	168,89	176,76	173,83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	%	187,42	185,10	185,95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°A,U	type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L	type	VW/VO	VW/VO	VW/VO	VW/VO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	type	VW/VO	VW/VO	VW/VO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEER - 23/18 (EN14825:2018)																				
SEER	°A,U	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	W/W	5,62	5,42	5,67	5,58	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L	W/W	5,23	5,17	5,49	5,39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	W/W	5,89	5,81	5,89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency	°A,U	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	%	221,79	213,89	223,75	220,25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L	%	206,11	203,93	216,56	212,70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	%	232,74	229,25	232,71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°A,U	type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L	type	VW/FO	VW/FO	VW/FO	VW/FO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	type	VW/FO	VW/FO	VW/FO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEPR - (EN 14825:2018)																				
SEPR	°A,U	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	W/W	6,66	6,39	6,59	6,52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L	W/W	6,34	6,26	6,43	6,30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	W/W	6,87	6,70	6,81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°A,U	type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L	type	FW/FO	FW/FO	FW/FO	FW/FO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	type	FW/FO	FW/FO	FW/FO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

ELECTRIC DATA

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804		
Electric data	°	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		
	Maximum current (FLA)	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
		N	A	41,6	49,9	59,5	67,8	73,5	79,1	83,4	91,2	100,1	100,3	116,4	111,5	125,6	135,7	142,4	147,0	159,1	158,3
		U	A	-	-	-	67,8	73,5	79,1	83,4	91,2	100,1	100,3	116,4	111,5	125,6	135,7	142,4	147,0	159,1	158,3
		°	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
	Peak current (LRA)	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
N		A	161,9	174,0	214,4	222,8	276,8	282,5	203,7	332,4	224,2	341,5	271,4	396,5	410,7	290,7	604,7	350,4	621,4	361,7	
U		A	-	-	-	222,8	276,8	282,5	203,7	332,4	224,2	341,5	271,4	396,5	410,7	290,7	604,7	350,4	621,4	361,7	

■ 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	type	-	-	-	Scroll														
	E,L,N	type	Scroll																	
	U	type	-	-	-	Scroll														
Compressor regulation	°A	type	-	-	-	On/Off														
	E,L,N	type	On/Off																	
	U	type	-	-	-	On/Off														
Number	°A	no.	-	-	-	2	2	4	2	4	2	4	2	4	2	4	2	4	2	
	E,L,N	no.	2	2	2	2	2	4	2	4	2	4	2	4	2	4	2	4	2	
	U	no.	-	-	-	2	2	4	2	4	2	4	2	4	2	4	2	4	2	
Circuits	°A	no.	-	-	-	1	1	2	1	2	1	2	1	2	1	2	1	2	1	
	E,L,N	no.	1	1	1	1	1	2	1	2	1	2	1	2	1	2	1	2	1	
	U	no.	-	-	-	1	1	2	1	2	1	2	1	2	1	2	1	2	1	
Refrigerant	°A	type	-	-	-	R32														
	E,L,N	type	R32																	
	U	type	-	-	-	R32														
Total refrigerant charge (l)	°	kg	-	-	-	8,50	8,50	11,80	10,90	12,70	10,90	14,80	12,20	14,70	14,00	16,20	15,00	16,20	14,80	
	A	kg	-	-	-	10,88	10,88	13,74	13,00	13,80	13,30	16,00	18,50	16,02	19,00	18,60	19,00	18,60		
	E	kg	6,20	7,70	8,20	9,70	10,88	10,88	13,74	13,00	13,80	13,30	16,00	18,50	16,02	19,00	18,60	19,00	18,60	
	L	kg	5,90	5,90	7,70	6,80	8,50	8,50	11,80	10,90	12,70	10,90	14,80	12,20	14,70	14,00	16,20	15,00	16,20	14,80
	N	kg	8,50	8,50	10,11	11,14	12,75	12,84	20,20	13,30	20,20	17,00	20,20	19,00	19,00	21,00	19,00	21,00	19,00	21,00
	U	kg	-	-	-	11,14	12,75	12,84	20,20	13,30	20,20	17,00	20,20	19,00	19,00	21,00	19,00	21,00	19,00	21,00
Potential global heating (GWP)	°A	-	-	-	-	675	675	675	675	675	675	675	675	675	675	675	675	675	675	
	E,L,N	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	
	U	-	-	-	-	675	675	675	675	675	675	675	675	675	675	675	675	675	675	
Equivalent CO ₂	°	tCO ₂ eq	-	-	-	5,74	5,74	7,97	7,36	8,57	7,36	9,99	8,24	9,92	9,45	10,94	10,13	10,94	9,99	
	A	tCO ₂ eq	-	-	-	7,34	7,34	9,27	8,78	9,32	8,98	9,32	10,80	12,49	10,81	12,83	12,56	12,83	12,56	
	E	tCO ₂ eq	4,19	5,20	5,54	6,55	7,34	7,34	9,27	8,78	9,32	8,98	9,32	10,80	12,49	10,81	12,83	12,56	12,83	
	L	tCO ₂ eq	3,98	3,98	5,20	4,59	5,74	5,74	7,97	7,36	8,57	7,36	9,99	8,24	9,92	9,45	10,94	10,13	10,94	
	N	tCO ₂ eq	5,74	5,74	6,82	7,52	8,61	8,67	13,64	8,98	13,64	11,48	13,64	12,83	12,83	14,18	12,83	14,18	12,83	
	U	tCO ₂ eq	-	-	-	7,52	8,61	8,67	13,64	8,98	13,64	11,48	13,64	12,83	12,83	14,18	12,83	14,18	12,83	

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

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: M																			
Compressor																			
Type	°A,E,L	type	-	-	-	Scroll													
	N,U	type	-	-	-	Scroll													
	°A	type	-	-	-	On/Off													
Compressor regulation	E,L	type	On/Off	-	-	On/Off													
	N,U	type	-	-	-	On/Off	-	-	-	-	-								
	°A,E,L	no.	-	-	-	2	2	4	2	4	2	4	2	4	2	4	2	4	
Number	N,U	no.	-	-	-	2	2	4	2	4	2	4	2	4	2	4	2	4	
	°A,E,L	no.	-	-	-	1	1	2	1	2	1	2	1	2	1	2	1	2	
	N,U	no.	-	-	-	1	1	2	1	2	1	2	1	-	-	-	-	-	
Circuits	°A,E,L	no.	-	-	-	1	1	2	1	2	1	2	1	2	1	2	1	2	
	N,U	no.	-	-	-	1	1	2	1	2	1	2	1	-	-	-	-	-	
	°A,E,L	type	-	-	-	R32													
Refrigerant	N,U	type	-	-	-	R32	-	-	-	-	-								

(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.

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Total refrigerant charge (1)	°L kg	-	-	-	-	8,50	8,50	11,80	10,90	12,70	10,90	14,80	12,20	14,70	14,00	16,20	15,00	16,20	14,80
	A,E kg	-	-	-	-	10,88	10,88	13,74	13,00	13,80	13,30	13,80	16,00	18,50	16,02	19,00	18,60	19,00	18,60
	N,U kg	-	-	-	-	12,75	12,84	20,20	13,30	20,20	17,00	20,20	19,00	-	-	-	-	-	-
Potential global heating (GWP)	°A,E,L	-	-	-	-	675	675	675	675	675	675	675	675	675	675	675	675	675	675
	N,U	-	-	-	-	675	675	675	675	675	675	675	675	-	-	-	-	-	
Equivalent CO ₂	°L tCO ₂ eq	-	-	-	-	5,74	5,74	7,97	7,36	8,57	7,36	9,99	8,24	9,92	9,45	10,94	10,13	10,94	9,99
	A,E tCO ₂ eq	-	-	-	-	7,34	7,34	9,27	8,78	9,32	8,98	9,32	10,80	12,49	10,81	12,83	12,56	12,83	12,56
	N,U tCO ₂ eq	-	-	-	-	8,61	8,67	13,64	8,98	13,64	11,48	13,64	12,83	-	-	-	-	-	

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

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: °																			
Compressor																			
Type	°A,U type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L type	Scroll	Scroll	Scroll	Scroll	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N type	Scroll	Scroll	Scroll	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Compressor regulation	°A,U type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L type	On/Off	On/Off	On/Off	On/Off	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N type	On/Off	On/Off	On/Off	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number	°A,U no.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L no.	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N no.	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Circuits	°A,U no.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L no.	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N no.	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Refrigerant	°A,U type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L type	R32	R32	R32	R32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N type	R32	R32	R32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total refrigerant charge (1)	°A,U kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E kg	6,20	7,70	8,20	9,70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L kg	5,90	5,90	7,70	6,80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N kg	8,50	8,50	10,11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potential global heating (GWP)	°A,U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E,L	675	675	675	675	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N	675	675	675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equivalent CO ₂	°A,U tCO ₂ eq	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E tCO ₂ eq	4,19	5,20	5,54	6,55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	L tCO ₂ eq	3,98	3,98	5,20	4,59	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N tCO ₂ eq	5,74	5,74	6,82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(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,N,U type	Brazed plate																	
Number	°A,E,L,N,U no.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
System side hydraulic connections																			
Sizes (in/out)	°A,E,L,N,U 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,N,U type	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	3	3	3	3	3	3	3	3
	N no.	6	6	8	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
	U no.	-	-	-	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: J																			
Inverter fan																			
Air flow rate	°	m ³ /h	-	-	-	36600	36600	35100	35100	35100	35100	33700	55200	53100	53100	53100	53100	53100	53100
	A	m ³ /h	-	-	-	35100	35100	33800	33800	33800	33700	53100	53100	51100	51100	51100	51100	51100	51100
	E	m ³ /h	20700	22200	27500	24800	26800	26800	25600	25600	25600	40500	40500	38800	38800	38800	38800	38800	38800
	L	m ³ /h	15200	20700	22200	27500	30900	30900	29500	29500	29500	28300	46500	44600	44600	44600	44600	44600	44600
	N	m ³ /h	22200	27500	24800	26800	25600	25600	40500	40500	40500	40500	38800	38800	52317	52324	52317	52324	52317
	U	m ³ /h	-	-	-	35100	33700	33700	53100	53100	53100	53100	51100	51100	66361	66361	66361	66361	66361
Sound data calculated in cooling mode (1)																			
Sound power level	°	dB(A)	-	-	-	85,1	85,6	84,2	85,9	84,8	86,1	84,9	87,5	87,6	86,5	88,3	88,1	90,1	89,4
	A	dB(A)	-	-	-	85,1	85,6	84,2	85,9	84,8	86,1	86,5	87,5	87,6	86,5	88,3	88,1	90,1	89,4
	E	dB(A)	73,0	73,5	74,3	74,5	81,3	82,1	76,1	82,7	76,7	83,1	77,8	84,2	84,4	78,0	85,6	83,6	87,3
	L	dB(A)	72,4	73,5	73,9	74,5	81,3	82,1	76,1	82,7	76,7	83,1	77,1	84,2	84,4	78,0	85,6	84,1	87,3
	N	dB(A)	73,0	73,9	74,3	80,3	81,3	82,1	76,9	83,6	77,5	84,0	77,8	84,2	89,3	87,4	89,7	88,5	90,1
	U	dB(A)	-	-	-	84,6	85,1	85,6	85,8	87,2	86,4	87,4	86,5	87,5	92,3	91,1	92,5	91,7	92,7

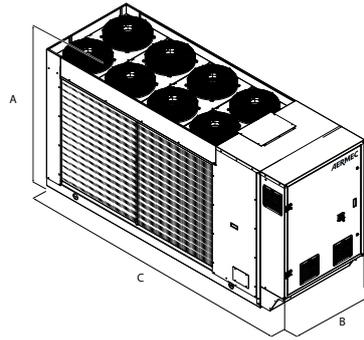
(1) Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: M																			
Without Static pressure																			
Air flow rate	°	m ³ /h	-	-	-	40400	40400	40400	40400	40400	40400	40400	60600	60600	60600	60600	60600	60600	60600
	A	m ³ /h	-	-	-	40400	40400	40400	40400	40400	40400	60600	60600	60600	60600	60600	60600	60600	60600
	E	m ³ /h	-	-	-	26625	26625	25488	25497	25488	25497	40270	40267	38638	38640	38638	38640	38638	38640
	L	m ³ /h	-	-	-	30672	30672	29318	29318	29318	29318	28069	46243	44312	44307	44312	44307	44312	44307
	N	m ³ /h	-	-	-	26623	25495	25495	40269	40274	40269	40274	38640	38634	-	-	-	-	-
	U	m ³ /h	-	-	-	40400	40400	60600	60600	60600	60600	60600	60600	60600	-	-	-	-	-
Sound power level	°	dB(A)	-	-	-	86,8	87,1	86,2	87,3	86,6	87,5	86,7	89,0	89,1	88,3	89,6	89,5	91,0	
	A	dB(A)	-	-	-	86,8	87,1	86,2	87,3	86,6	87,5	88,3	89,0	89,1	88,3	89,6	89,5	91,0	
	E	dB(A)	-	-	-	81,3	82,1	76,1	82,7	76,7	83,1	77,8	84,2	84,4	78,0	85,6	83,6	87,3	
	L	dB(A)	-	-	-	81,3	82,1	76,1	82,7	76,7	83,1	77,1	84,2	84,4	78,0	85,6	84,1	-	
	N	dB(A)	-	-	-	80,3	81,3	82,1	76,9	83,6	77,5	84,0	77,8	84,2	-	-	-	-	
	U	dB(A)	-	-	-	86,5	86,8	87,1	88,4	88,8	88,3	88,9	88,3	89,0	-	-	-	-	

Size		0282	0302	0332	0352	0502	0552	0554	0602	0604	0652	0654	0682	0702	0704	0752	0754	0802	0804
Fans: °																			
Fan																			
Air flow rate	°A,U	m ³ /h	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	E	m ³ /h	20469	20469	27112	24667	-	-	-	-	-	-	-	-	-	-	-	-	
	L	m ³ /h	15291	20474	22212	27150	-	-	-	-	-	-	-	-	-	-	-	-	
	N	m ³ /h	22189	22189	24655	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sound data calculated in cooling mode (1)																			
Sound power level	°A,U	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	E	dB(A)	73,0	73,5	74,3	74,5	-	-	-	-	-	-	-	-	-	-	-	-	
	L	dB(A)	72,4	73,5	73,9	74,5	-	-	-	-	-	-	-	-	-	-	-	-	
	N	dB(A)	73,0	73,9	74,3	-	-	-	-	-	-	-	-	-	-	-	-	-	

(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 measured in free field (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	1900	1900	1900	1900	1900	1900	1900
	A	mm	-	-	-	-	1907	1907	1907	1907	1907	1907	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
	L	mm	1652	1652	1658	1658	1907	1907	1907	1907	1907	1907	1907	1900	1900	1900	1900	1900	1900
	N	mm	1658	1658	1658	1907	1907	1907	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
B	U	mm	-	-	-	1907	1907	1907	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
	°A	mm	-	-	-	-	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
	E,L,N	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
C	U	mm	-	-	-	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
	°	mm	-	-	-	-	3567	3567	3567	3567	3567	3567	3567	4368	4368	4368	4368	4368	4368
	A	mm	-	-	-	-	3567	3567	3567	3567	3567	3567	3567	4368	4368	4368	4368	4368	4368
	E	mm	2818	3317	3317	3317	3567	3567	3567	3567	3567	3567	3567	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
	N	mm	3317	3317	3317	3567	3567	3567	4368	4368	4368	4368	4368	4368	4368	4368	4368	4368	4368
	U	mm	-	-	-	3567	3567	3567	4368	4368	4368	4368	4368	4368	4368	4368	4368	4368	4368

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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