NRB 0282-0754

Air-water chiller

Cooling capacity 56 ÷ 202 kW

- **High seasonal efficiency**
- **Night mode**
- **Low refrigerant charge**
- **Compact dimensions**

DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or 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
N Silenced very high efficiency
U Very high efficiency

FEATURES

Operating field

Operation at full load up to 51°C external air temperature. Unit can produce chilled water (up to -10°C of water produced in some versions).

Dual-circuit unit

The units according to the size are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

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, available to configurator, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, with high or low head and storage tank, to obtain a solution that allows you to save money and to facilitate installation.

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:** available for all models with inverter fans or with DCPX. Allows, with continuous fan modulation, to optimize the operation of the unit in any operating point, ensuring an increase in the energy efficiency at partial load.
— **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.

C-TOUCH: 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.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

Model	Ver	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
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	0602	0604	0652	0654	0682	0702	0704	0752	0754
PR4	°,A					•	•	•	•	•	•	•	•	•	•	•
	E,L,N	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	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	0602	0604
Fans: M								
°, A	-	-	-	-	DCPX142	DCPX142	DCPX142	DCPX142
E, L	DCPX141	DCPX141	DCPX141	DCPX141	As standard	As standard	As standard	As standard
N	DCPX141	DCPX141	DCPX141	As standard	As standard	As standard	As standard	As standard
U	-	-	-	DCPX142	DCPX142	DCPX142	DCPX143	DCPX143
Fans: °								
E, L	DCPX140	DCPX140	DCPX140	DCPX140	-	-	-	-
N	DCPX140	DCPX140	DCPX140	-	-	-	-	-

Ver	0652	0654	0682	0702	0704	0752	0754
Fans: M							
°	DCPX142	DCPX142	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143
A	DCPX142	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143
E, L, N	As standard	As standard	As standard	As standard	As standard	As standard	As standard

Ver	0652	0654	0682	0702	0704	0752	0754
U	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143

Antivibration

Ver	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Integrated hydronic kit: 00, I1, I2, I3, I4, P1, P2, P3, P4															
°	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22
A	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22
E	VT17	VT17	VT17	VT17	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22
L	VT17	VT17	VT17	VT17	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22
N	VT17	VT17	VT17	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT23	VT23	VT23	VT23
U	-	-	-	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT23	VT23	VT23	VT23
Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08, 09, K1, K2, K3, K4															
°	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22
A	-	-	-	-	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22
E	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT22
L	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22
N	VT13	VT13	VT13	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT23	VT23	VT23	VT23
U	-	-	-	VT11	VT11	VT11	VT22	VT22	VT22	VT22	VT22	VT23	VT23	VT23	VT23

Anti-intrusion grid

Ver	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
°	-	-	-	-	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	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)
A	-	-	-	-	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	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)
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)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (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)	GP2 x 2 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)	GP2 x 3 (1)
N	GP4	GP4	GP4	GP2 x 2 (1)	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)	GP14 x 4 (1)	GP14 x 4 (1)	GP14 x 4 (1)	GP14 x 4 (1)
U	-	-	-	GP2 x 2 (1)	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)	GP14 x 4 (1)	GP14 x 4 (1)	GP14 x 4 (1)	GP14 x 4 (1)

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

Power factor correction

Ver	0282	0302	0332	0352	0502	0552	0602	0604
°, A	-	-	-	-	RIF0502	RIF0552	RIF0602	RIF0604
E, L, N	RIF0282	RIF0302	RIF0332	RIF0352	RIF0502	RIF0552	RIF0602	RIF0604
U	-	-	-	RIF0352	RIF0502	RIF0552	RIF0602	RIF0604

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

Ver	0652	0654	0682	0702	0704	0752	0754
°, A, E, L, N, U	RIF0652	RIF0654	RIF0682	RIF0702	RIF0704	RIF0752	RIF0754

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

Device for peak current reduction

Ver	0282	0302	0332	0352	0502	0552	0602	0604
°, A	-	-	-	-	DRENRB502 (1)	DRENRB552 (1)	DRENRB602 (1)	DRENRB604 (1)
E, L, N	DRENRB282 (1)	DRENRB302 (1)	DRENRB332 (1)	DRENRB352 (1)	DRENRB502 (1)	DRENRB552 (1)	DRENRB602 (1)	DRENRB604 (1)
U	-	-	-	DRENRB352 (1)	DRENRB502 (1)	DRENRB552 (1)	DRENRB602 (1)	DRENRB604 (1)

(1) Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.
The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

Ver	0652	0654	0682	0702	0704	0752	0754
°, A, E, L, N, U	DRENRB652 (1)	DRENRB654 (1)	DRENRB682 (1)	DRENRB702 (1)	DRENRB704 (1)	DRENRB752 (1)	DRENRB754 (1)

(1) Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.
A grey background indicates the accessory must be assembled in the factory

Double safety valves

Ver	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
°, A	-	-	-	-	T6NRB8	T6NRB8	T6NRB8	T6NRB11	T6NRB8	T6NRB11	T6NRB9	T6NRB10	T6NRB12	T6NRB10	T6NRB12
E, L	T6NRB6	T6NRB6	T6NRB6	T6NRB6	T6NRB8	T6NRB8	T6NRB8	T6NRB11	T6NRB8	T6NRB11	T6NRB9	T6NRB10	T6NRB12	T6NRB10	T6NRB12
N	T6NRB6	T6NRB6	T6NRB6	T6NRB8	T6NRB8	T6NRB8	T6NRB8	T6NRB11	T6NRB8	T6NRB11	T6NRB9	T6NRB10	T6NRB12	T6NRB10	T6NRB12
U	-	-	-	T6NRB8	T6NRB8	T6NRB8	T6NRB8	T6NRB11	T6NRB8	T6NRB11	T6NRB9	T6NRB10	T6NRB12	T6NRB10	T6NRB12

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

Touch screen keyboard

Ver	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
°, A, E, L, N, U	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH	C-TOUCH

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

CONFIGURATOR

Configuration options

Field		Description
1,2,3		**NRB**
4,5,6,7		**Size** 0282, 0302, 0332, 0352, 0502, 0552, 0602, 0604, 0652, 0654, 0682, 0702, 0704, 0752, 0754
8		**Operating field**
	X	Electronic thermostatic expansion valve (1)
	Y	Double mechanical thermostat for low temperature (2)
	Z	Low temperature electronic thermostatic valve (3)
	°	Standard mechanic thermostatic valve (1)
9		**Model**
	C	Motocondensing unit
	°	Cooling only
10		**Heat recovery**
	D	With desuperheater (4)
	T	With total recovery (4)
	°	Without heat recovery
11		**Version**
	°	Standard
	A	High efficiency
	E	Silenced high efficiency
	L	Standard silenced
	N	Silenced very high efficiency
	U	Very high efficiency
12		**Coils**
	R	Copper pipes-copper fins
	V	Copper pieps-Coated aluminium fins
	°	Copper-aluminium
13		**Fans**
	J	Inverter
	M	Oversized (5)
	°	Standard (6)
14		**Power supply**
	°	400V ~ 3N 50Hz with magnet circuit breakers
15,16		**Integrated hydronic kit**
		Without 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 (7)
	06	Storage tank with holes for heaters and pump low head + stand-by pump (7)
	07	Storage tank with holes for heaters and single high head pump (7)
	08	Storage tank with holes for heaters and pump high head + stand-by pump (7)
		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 (8)
	W2	Double low head pump + Storage tank + variable speed inverter (8)
	W3	Single high head pump + Storage tank + variable speed inverter (8)
	W4	Double high head pump + Storage tank + variable speed inverter (8)

(1) Water produced from 4 °C ÷ 18 °C
(2) Water produced from -10 °C ÷ 18 °C
(3) Water produced from 4 °C ÷ 18 °C for ° version; -10 °C for the others versions
(4) For "YT" - "ZT" - "YD" and "ZD" recovery versions, contact the headquarters; 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
(5) As standard in sizes fom 0502 to 0754 version ° - A - E - L, in sizes from 0352 to 0754 version N - U
(6) As standard in sizes from 0282 to 0352 versions E - L and in size from 0282 to 0332 version N
(7) 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.
(8) Options Y and Z are not compatible with W1/W2/W3/W4

PERFORMANCE SPECIFICATIONS

NRB - °

Size		0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Cooling performance 12 °C / 7 °C (1)																
Cooling capacity	kW	-	-	-	-	98,4	107,0	125,9	125,5	135,1	141,0	159,7	178,9	170,7	195,7	193,5
Input power	kW	-	-	-	-	33,2	37,5	41,6	45,6	47,4	52,2	54,8	60,8	58,3	71,8	67,2
Cooling total input current	A	-	-	-	-	59,00	65,00	71,00	80,00	81,00	92,00	93,00	102,00	104,00	117,00	117,00
EER	W/W	-	-	-	-	2,96	2,85	3,03	2,75	2,85	2,70	2,92	2,95	2,93	2,73	2,88
Water flow rate system side	l/h	-	-	-	-	16.941	18.444	21.694	21.620	23.270	24.282	27.502	30.805	29.385	33.700	33.309
Pressure drop system side	kPa	-	-	-	-	39	46	42	50	49	48	52	66	71	78	65

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

NRB - L

Size		0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Cooling performance 12 °C / 7 °C (1)																
Cooling capacity	kW	56,5	64,3	73,9	85,5	96,3	104,5	122,6	121,5	131,1	134,8	156,1	174,3	166,4	189,9	187,4
Input power	kW	19,8	22,2	24,8	29,6	34,0	38,6	42,9	47,6	49,2	55,0	56,0	62,5	60,0	74,7	69,5
Cooling total input current	A	35,00	41,00	46,00	54,00	59,00	65,00	72,00	82,00	82,00	95,00	93,00	102,00	105,00	119,00	119,00
EER	W/W	2,85	2,90	2,98	2,89	2,83	2,71	2,86	2,55	2,67	2,45	2,79	2,79	2,78	2,54	2,70
Water flow rate system side	l/h	9.734	11.090	12.722	14.734	16.583	18.007	21.114	20.937	22.592	23.230	26.870	30.010	28.645	32.685	32.255
Pressure drop system side	kPa	37	48	39	52	37	43	40	46	45	44	50	62	66	73	61

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

NRB - A

Size		0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Cooling performance 12 °C / 7 °C (1)																
Cooling capacity	kW	-	-	-	-	103,9	114,8	130,1	129,7	140,0	150,2	167,9	186,9	176,8	207,6	198,8
Input power	kW	-	-	-	-	31,4	35,4	40,3	43,5	45,0	47,6	51,9	59,2	56,6	69,6	63,8
Cooling total input current	A	-	-	-	-	55,00	59,00	68,00	73,00	74,00	77,00	86,00	94,00	98,00	103,00	107,00
EER	W/W	-	-	-	-	3,31	3,24	3,23	2,98	3,11	3,16	3,24	3,16	3,12	2,98	3,11
Water flow rate system side	l/h	-	-	-	-	17.889	19.764	22.404	22.344	24.116	25.867	28.897	32.172	30.430	35.736	34.210
Pressure drop system side	kPa	-	-	-	-	30	36	35	42	40	57	46	56	55	60	58

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

NRB - E

Size		0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Cooling performance 12 °C / 7 °C (1)																
Cooling capacity	kW	60,6	68,4	77,0	89,2	100,4	110,5	123,9	122,2	132,4	144,8	161,4	178,0	168,2	195,9	187,7
Input power	kW	18,6	21,1	23,8	28,3	32,5	36,9	42,7	46,6	48,2	49,4	54,0	62,6	59,7	74,7	68,0
Cooling total input current	A	32,00	36,00	41,00	46,00	54,00	59,00	69,00	75,00	77,00	77,00	86,00	95,00	100,00	107,00	110,00
EER	W/W	3,26	3,24	3,23	3,16	3,09	3,00	2,90	2,62	2,75	2,93	2,99	2,84	2,82	2,62	2,76
Water flow rate system side	l/h	10.429	11.774	13.258	15.372	17.275	19.020	21.329	21.052	22.807	24.939	27.779	30.648	28.950	33.719	32.307
Pressure drop system side	kPa	26	33	30	40	27	33	32	36	36	52	42	51	49	53	52

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

NRB - U

Size		0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Cooling performance 12 °C / 7 °C (1)																
Cooling capacity	kW	-	-	-	92,7	104,5	117,2	132,1	137,9	146,8	152,9	171,6	191,4	180,5	209,6	202,9
Input power	kW	-	-	-	27,1	30,8	34,5	38,8	41,3	44,2	45,5	50,7	59,3	56,2	67,2	63,1
Cooling total input current	A	-	-	-	51,00	56,00	61,00	68,00	76,00	76,00	86,00	88,00	101,00	104,00	116,00	115,00
EER	W/W	-	-	-	3,42	3,39	3,40	3,40	3,34	3,32	3,36	3,39	3,23	3,21	3,12	3,21
Water flow rate system side	l/h	-	-	-	15.945	17.984	20.172	22.745	23.741	25.275	26.327	29.532	32.945	31.067	36.076	34.915
Pressure drop system side	kPa	-	-	-	24	30	29	38	34	36	42	41	51	48	61	56

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

NRB - N

Size		0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Cooling performance 12 °C / 7 °C (1)																
Cooling capacity	kW	60,8	69,0	76,9	89,7	100,8	112,4	128,6	133,5	142,2	147,1	164,5	185,1	174,5	201,1	195,1
Input power	kW	17,8	20,5	22,9	27,8	31,9	36,1	39,4	42,4	45,3	47,2	52,9	60,9	57,5	70,2	65,3
Cooling total input current	A	33,00	39,00	44,00	50,00	55,00	62,00	66,00	74,00	75,00	85,00	88,00	100,00	102,00	116,00	114,00
EER	W/W	3,42	3,37	3,36	3,23	3,16	3,12	3,26	3,15	3,14	3,11	3,11	3,04	3,03	2,87	2,99
Water flow rate system side	l/h	10.460	11.884	13.249	15.444	17.352	19.347	22.150	22.978	24.481	25.334	28.325	31.856	30.031	34.611	33.586
Pressure drop system side	kPa	27	25	31	22	28	27	36	32	34	39	38	48	45	56	52

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

ENERGY INDICES (REG. 2016/2281 EU)

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: J																	
SEER - 12/7 (EN14825: 2018)																	
SEER	°	W/W	-	-	-	-	4,34	4,23	4,39	4,12	4,26	4,11	4,28	4,26	4,13	4,24	4,12
	A	W/W	-	-	-	-	4,48	4,48	4,59	4,20	4,48	4,13	4,49	4,40	4,34	4,44	4,16
	E	W/W	4,59	4,69	4,60	4,52	4,48	4,46	4,53	4,16	4,34	4,18	4,51	4,32	4,13	4,33	4,11
	L	W/W	4,38	4,37	4,46	4,35	4,36	4,24	4,38	4,11	4,18	4,12	4,32	4,23	4,13	4,19	4,11
	N	W/W	4,79	4,84	4,73	4,81	4,68	4,76	4,84	4,53	4,72	4,39	4,77	4,60	4,35	4,56	4,31
	U	W/W	-	-	-	4,74	4,71	4,82	4,65	4,33	4,66	4,31	4,76	4,53	4,22	4,52	4,29
Seasonal efficiency	°	%	-	-	-	-	170,60	166,20	172,60	161,80	167,30	161,40	168,20	167,40	162,20	166,60	161,80
	A	%	-	-	-	-	176,20	176,20	180,60	165,00	176,20	162,20	176,60	173,00	170,60	174,60	163,40
	E	%	180,60	184,60	181,00	177,80	176,20	175,40	178,20	163,40	170,60	164,20	177,40	169,80	162,20	170,20	161,40
	L	%	172,20	171,80	175,40	171,00	171,40	166,60	172,20	161,40	164,20	161,80	169,80	166,20	162,20	164,60	161,40
	N	%	188,60	190,60	186,20	189,40	184,20	187,40	190,60	178,20	185,80	172,60	187,80	181,00	171,00	179,40	169,40
	U	%	-	-	-	186,80	185,40	189,80	183,00	170,20	183,40	169,40	187,40	178,20	165,80	177,80	168,60
SEER - 23/18 (EN14825: 2018)																	
SEER	°	W/W	-	-	-	-	5,31	5,07	5,29	4,89	5,04	4,93	5,13	5,12	5,01	4,99	4,95
	A	W/W	-	-	-	-	5,55	5,42	5,54	5,06	5,36	5,11	5,43	5,23	5,30	5,24	5,03
	E	W/W	5,50	5,62	5,55	5,58	5,47	5,41	5,37	4,88	5,10	5,05	5,37	5,06	4,93	5,02	4,88
	L	W/W	5,17	5,22	5,34	5,22	5,27	5,00	5,12	4,81	4,89	4,82	5,13	4,92	4,91	4,83	4,84
	N	W/W	5,75	5,82	5,73	5,91	5,72	5,68	5,88	5,49	5,67	5,29	5,71	5,46	5,27	5,38	5,21
	U	W/W	-	-	-	5,92	5,86	5,85	5,72	5,32	5,68	5,30	5,79	5,45	5,22	5,41	5,21
Seasonal efficiency	°	%	-	-	-	-	209,30	199,60	208,40	192,70	198,50	194,20	202,20	201,60	197,50	196,50	194,80
	A	%	-	-	-	-	219,00	213,90	218,60	199,50	211,30	201,30	214,10	206,30	208,80	206,60	198,20
	E	%	216,80	221,60	218,80	220,00	215,70	213,30	211,80	192,00	200,80	199,10	211,60	199,30	194,00	197,90	192,20
	L	%	203,80	205,90	210,60	205,60	207,70	197,10	201,70	189,40	192,70	189,70	202,00	193,60	193,20	190,00	190,40
	N	%	227,00	229,80	226,30	233,30	225,80	224,10	232,30	216,40	223,70	208,50	225,30	215,30	207,60	212,10	205,20
	U	%	-	-	-	233,80	231,40	231,10	225,80	209,60	224,00	209,00	228,70	214,90	205,70	213,40	205,40
SEPR - (EN 14825: 2018)																	
SEPR	°	W/W	-	-	-	-	5,79	5,61	5,74	5,62	5,66	5,57	5,59	5,84	5,94	5,45	5,76
	A	W/W	-	-	-	-	6,10	5,97	6,00	5,73	5,97	5,74	5,92	5,79	5,89	5,75	5,78
	E	W/W	6,46	6,42	6,13	6,36	5,98	5,95	5,79	5,41	5,72	5,68	5,83	5,67	5,69	5,51	5,47
	L	W/W	6,15	6,00	5,97	6,07	5,79	5,65	5,61	5,31	5,55	5,28	5,58	5,60	5,77	5,37	5,53
	N	W/W	6,71	6,53	6,23	6,54	6,22	6,21	6,16	6,12	6,14	5,93	6,09	5,97	6,08	5,83	5,90
	U	W/W	-	-	-	6,43	6,30	6,31	6,01	6,15	6,09	5,88	6,19	5,88	6,05	5,85	6,07

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: M																	
SEER - 12/7 (EN14825: 2018)																	
SEER	°	W/W	-	-	-	-	4,23	4,13	4,29	- (1)	4,16	- (1)	4,18	4,16	- (1)	4,14	- (1)
	A	W/W	-	-	-	-	4,37	4,37	4,48	- (1)	4,37	- (1)	4,38	4,29	- (1)	4,33	- (1)
	E	W/W	4,48	4,58	4,49	4,42	4,37	4,35	4,42	- (1)	4,24	- (1)	4,40	4,21	- (1)	4,23	- (1)
	L	W/W	4,28	4,27	4,35	4,27	4,25	4,14	4,27	- (1)	4,11	- (1)	4,22	4,13	- (1)	4,11	- (1)
	N	W/W	4,68	4,72	4,62	4,69	4,56	4,65	4,72	4,42	4,61	4,28	4,65	4,49	4,24	4,45	4,20
	U	W/W	-	-	-	4,62	4,59	4,71	4,54	4,22	4,54	4,20	4,64	4,42	4,11	4,41	4,18
Seasonal efficiency	°	%	-	-	-	-	166,20	162,20	168,40	- (1)	163,40	- (1)	164,10	163,40	- (1)	162,50	- (1)
	A	%	-	-	-	-	171,90	171,60	176,10	- (1)	171,70	- (1)	172,20	168,70	- (1)	170,20	- (1)
	E	%	176,20	180,20	176,40	173,60	171,70	171,00	173,80	- (1)	166,50	- (1)	172,80	165,50	- (1)	166,00	- (1)
	L	%	168,10	167,80	171,10	167,00	167,00	162,50	167,80	- (1)	161,20	- (1)	165,70	162,10	- (1)	161,30	- (1)
	N	%	184,00	185,70	181,70	184,70	179,50	182,90	185,90	173,70	181,20	168,20	182,90	176,40	166,70	174,90	165,10
	U	%	-	-	-	181,70	180,60	185,20	178,50	165,60	178,70	165,10	182,50	173,80	161,40	173,30	164,30
SEER - 23/18 (EN14825: 2018)																	
SEER	°	W/W	-	-	-	-	5,17	4,95	5,16	4,77	4,95	4,80	5,01	4,99	4,86	4,82	4,90
	A	W/W	-	-	-	-	5,42	5,28	5,40	4,91	5,22	4,94	5,29	5,10	4,95	5,11	4,99
	E	W/W	5,36	5,48	5,40	5,44	5,33	5,27	5,24	4,68	4,97	4,93	5,23	4,93	4,81	4,90	4,74
	L	W/W	5,05	5,10	5,21	5,09	5,13	4,88	4,99	4,65	4,77	4,52	5,00	4,79	4,78	4,67	4,74
	N	W/W	5,61	5,67	5,59	5,76	5,58	5,54	5,74	5,35	5,53	5,12	5,56	5,32	5,13	5,24	5,07
	U	W/W	-	-	-	5,77	5,71	5,71	5,58	5,18	5,53	5,17	5,64	5,32	5,08	5,27	5,07
Seasonal efficiency	°	%	-	-	-	-	203,90	194,80	203,30	187,70	195,10	189,00	197,30	196,70	191,50	189,90	193,00
	A	%	-	-	-	-	213,60	208,30	213,10	193,50	205,80	194,60	208,70	201,10	194,90	201,30	196,70
	E	%	211,40	216,30	213,10	214,70	210,20	207,90	206,50	184,00	195,90	194,00	206,10	194,20	189,20	193,00	186,50
	L	%	199,00	201,10	205,30	200,70	202,30	192,30	196,60	183,10	187,90	177,60	197,10	188,70	188,10	183,80	186,40
	N	%	221,40	223,80	220,60	227,50	220,00	218,70	226,60	210,90	218,20	203,00	219,50	209,70	202,20	206,70	199,90
	U	%	-	-	-	227,60	225,50	225,40	220,30	204,00	218,30	203,60	222,70	209,60	200,00	207,90	199,90

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

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
SEPR - (EN 14825: 2018)																	
SEPR	°	W/W	-	-	-	-	5,79	5,61	5,74	5,62	5,66	5,57	5,59	5,84	5,94	5,45	5,76
	A	W/W	-	-	-	-	6,10	5,97	6,00	5,73	5,97	5,74	5,92	5,79	5,89	5,75	5,78
	E	W/W	6,46	6,42	6,13	6,36	5,98	5,95	5,79	5,41	5,72	5,68	5,83	5,67	5,69	5,51	5,47
	L	W/W	6,15	6,00	5,97	6,07	5,79	5,65	5,61	5,31	5,55	5,28	5,58	5,60	5,77	5,37	5,53
	N	W/W	6,71	6,53	6,23	6,54	6,22	6,12	6,16	6,12	6,14	5,93	6,09	5,97	6,08	5,83	5,90
	U	W/W	-	-	-	6,43	6,30	6,31	6,01	6,15	6,09	5,88	6,19	5,88	6,05	5,85	6,07

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

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: °																	
SEER - 12/7 (EN14825: 2018)																	
SEER	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	W/W	4,48	4,58	4,49	4,42	-	-	-	-	-	-	-	-	-	-	-
	L	W/W	4,28	4,27	4,35	4,25	-	-	-	-	-	-	-	-	-	-	-
	N	W/W	4,68	4,72	4,62	-	-	-	-	-	-	-	-	-	-	-	-
	U	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	%	176,20	180,20	176,40	173,60	-	-	-	-	-	-	-	-	-	-	-
	L	%	168,10	167,80	171,10	167,00	-	-	-	-	-	-	-	-	-	-	-
	N	%	184,00	185,70	181,70	-	-	-	-	-	-	-	-	-	-	-	-
	U	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEER - 23/18 (EN14825: 2018)																	
SEER	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	W/W	5,36	5,48	5,40	5,44	-	-	-	-	-	-	-	-	-	-	-
	L	W/W	5,05	5,10	5,21	5,09	-	-	-	-	-	-	-	-	-	-	-
	N	W/W	5,61	5,67	5,59	-	-	-	-	-	-	-	-	-	-	-	-
	U	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	%	211,40	216,30	213,10	214,70	-	-	-	-	-	-	-	-	-	-	-
	L	%	199,00	201,10	205,30	200,70	-	-	-	-	-	-	-	-	-	-	-
	N	%	221,40	223,80	220,60	-	-	-	-	-	-	-	-	-	-	-	-
	U	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEPR - (EN 14825: 2018)																	
SEPR	°,A	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	W/W	6,46	6,42	6,13	6,36	-	-	-	-	-	-	-	-	-	-	-
	L	W/W	6,15	6,00	5,97	6,07	-	-	-	-	-	-	-	-	-	-	-
	N	W/W	6,71	6,53	6,23	-	-	-	-	-	-	-	-	-	-	-	-
	U	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ELECTRIC DATA

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Electric data																	
Maximum current (FLA)	°	A	-	-	-	-	72,2	77,1	86,0	98,2	94,9	111,3	112,7	127,3	131,4	144,0	141,2
	A	A	-	-	-	-	72,2	77,1	86,0	98,2	94,9	114,5	112,7	127,3	131,4	144,0	141,2
	E	A	42,6	49,2	56,9	65,3	72,2	77,1	86,0	98,2	94,9	114,5	112,7	127,3	131,4	144,0	141,2
	L	A	41,5	49,2	55,8	65,3	72,2	77,1	86,0	98,2	94,9	111,3	112,7	127,3	131,4	144,0	141,2
	N	A	42,6	50,3	56,9	67,3	72,2	77,1	89,2	101,3	98,1	114,5	112,7	130,5	134,6	147,2	144,4
	U	A	-	-	-	67,3	72,2	77,1	89,2	101,3	98,1	114,5	112,7	130,5	134,6	147,2	144,4
Peak current (LRA)	°	A	-	-	-	-	277,6	282,5	329,2	211,9	338,1	225,1	363,8	378,4	274,9	476,4	346,6
	A	A	-	-	-	-	277,6	282,5	329,2	211,9	338,1	228,3	363,8	378,4	274,9	476,4	346,6
	E	A	148,0	163,0	170,6	208,9	277,6	282,5	329,2	211,9	338,1	228,3	363,8	378,4	274,9	476,4	346,6
	L	A	146,9	163,0	169,5	208,9	277,6	282,5	329,2	211,9	338,1	225,1	363,8	378,4	274,9	476,4	346,6
	N	A	148,0	164,1	170,6	210,8	277,6	282,5	332,4	215,1	341,3	228,3	363,8	381,6	278,1	479,6	349,8
	U	A	-	-	-	210,8	277,6	282,5	332,4	215,1	341,3	228,3	363,8	381,6	278,1	479,6	349,8

GENERAL TECHNICAL DATA

Refrigerant circuit

General data

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: J																	
Compressor																	
Type	°,A	type	-	-	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	E,L,N	type								Scroll							
	U	type	-	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Number	°,A	no.	-	-	-	-	2	2	2	4	2	4	2	2	4	2	4
	E,L,N	no.	2	2	2	2	2	2	2	4	2	4	2	2	4	2	4
	U	no.	-	-	-	2	2	2	2	4	2	4	2	2	4	2	4
Circuits	°,A	no.	-	-	-	-	1	1	1	2	1	2	1	1	2	1	2
	E,L,N	no.	1	1	1	1	1	1	1	2	1	2	1	1	2	1	2
	U	no.	-	-	-	1	1	1	1	2	1	2	1	1	2	1	2
Refrigerant	°,A	type	-	-	-	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	E,L,N	type								R410A							
	U	type	-	-	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Total refrigerant charge (1)	°	kg	-	-	-	-	9,90	9,90	13,90	16,00	13,90	17,40	16,40	18,90	22,60	19,00	22,60
	A	kg	-	-	-	-	12,70	12,70	15,20	18,40	15,50	21,40	20,00	23,30	25,20	24,00	25,20
	E	kg	8,90	9,90	9,90	11,80	12,70	12,70	15,20	18,40	15,50	21,40	20,00	23,30	25,20	24,00	25,20
	L	kg	8,30	8,30	9,80	9,80	9,90	9,90	13,90	16,00	13,90	17,40	16,40	18,90	22,60	19,00	22,60
	N	kg	9,90	9,90	11,80	13,00	14,90	15,00	19,90	21,40	19,90	25,40	24,80	33,50	37,20	33,60	37,00
	U	kg	-	-	-	13,00	14,90	15,00	19,90	21,40	19,90	25,40	24,80	33,50	37,20	33,60	37,00
Potential global heating (GWP)	°,A		-	-	-	-	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088
	E,L,N									2088							
	U		-	-	-	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088
Equivalent CO_2	°	tCO_2eq	-	-	-	-	20,67	20,67	29,02	33,40	29,02	36,33	34,24	39,46	47,18	39,67	47,18
	A	tCO_2eq	-	-	-	-	26,51	26,51	31,73	38,41	32,36	44,68	41,76	48,65	52,61	50,11	52,61
	E	tCO_2eq	18,58	20,67	20,67	24,63	26,51	26,51	31,73	38,41	32,36	44,68	41,76	48,65	52,61	50,11	52,61
	L	tCO_2eq	17,33	17,33	20,46	20,46	20,67	20,67	29,02	33,40	29,02	36,33	34,24	39,46	47,18	39,67	47,18
	N	tCO_2eq	20,67	20,67	24,63	27,14	31,11	31,32	41,55	44,68	41,55	53,03	51,78	69,94	77,67	70,15	77,25
	U	tCO_2eq	-	-	-	27,14	31,11	31,32	41,55	44,68	41,55	53,03	51,78	69,94	77,67	70,15	77,25

(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	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: M																	
Compressor																	
Type	°,A	type	-	-	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	E,L,N	type								Scroll							
	U	type	-	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Number	°,A	no.	-	-	-	-	2	2	2	4	2	4	2	2	4	2	4
	E,L,N	no.	2	2	2	2	2	2	2	4	2	4	2	2	4	2	4
	U	no.	-	-	-	2	2	2	2	4	2	4	2	2	4	2	4
Circuits	°,A	no.	-	-	-	-	1	1	1	2	1	2	1	1	2	1	2
	E,L,N	no.	1	1	1	1	1	1	1	2	1	2	1	1	2	1	2
	U	no.	-	-	-	1	1	1	1	2	1	2	1	1	2	1	2
Refrigerant	°,A	type	-	-	-	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	E,L,N	type								R410A							
	U	type	-	-	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Total refrigerant charge (1)	°	kg	-	-	-	-	9,90	9,90	13,90	16,00	13,90	17,40	16,40	18,90	22,60	19,00	22,60
	A	kg	-	-	-	-	12,70	12,70	15,20	18,40	15,50	21,40	20,00	23,30	25,20	24,00	25,20
	E	kg	8,90	9,90	9,90	11,80	12,70	12,70	15,20	18,40	15,50	21,40	20,00	23,30	25,20	24,00	25,20
	L	kg	8,30	8,30	9,80	9,80	9,90	9,90	13,90	16,00	13,90	17,40	16,40	18,90	22,60	19,00	22,60
	N	kg	9,90	9,90	11,80	13,00	14,90	15,00	19,90	21,40	19,90	25,40	24,80	33,50	37,20	33,60	37,00
	U	kg	-	-	-	13,00	14,90	15,00	19,90	21,40	19,90	25,40	24,80	33,50	37,20	33,60	37,00
Potential global heating (GWP)	°,A		-	-	-	-	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088
	E,L,N									2088							
	U		-	-	-	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088
Equivalent CO_2	°	tCO_2eq	-	-	-	-	20,67	20,67	29,02	33,40	29,02	36,33	34,24	39,46	47,18	39,67	47,18
	A	tCO_2eq	-	-	-	-	26,51	26,51	31,73	38,41	32,36	44,68	41,76	48,65	52,61	50,11	52,61
	E	tCO_2eq	18,58	20,67	20,67	24,63	26,51	26,51	31,73	38,41	32,36	44,68	41,76	48,65	52,61	50,11	52,61
	L	tCO_2eq	17,33	17,33	20,46	20,46	20,67	20,67	29,02	33,40	29,02	36,33	34,24	39,46	47,18	39,67	47,18
	N	tCO_2eq	20,67	20,67	24,63	27,14	31,11	31,32	41,55	44,68	41,55	53,03	51,78	69,94	77,67	70,15	77,25
	U	tCO_2eq	-	-	-	27,14	31,11	31,32	41,55	44,68	41,55	53,03	51,78	69,94	77,67	70,15	77,25

(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	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: °																	
Compressor																	
Type	°,A,U	type															
	E,L	type	Scroll	Scroll	Scroll	Scroll	-	-	-	-	-	-	-	-	-	-	-
	N	type	Scroll	Scroll	Scroll	-	-	-	-	-	-	-	-	-	-	-	-
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	R410A	R410A	R410A	R410A	-	-	-	-	-	-	-	-	-	-	-
	N	type	R410A	R410A	R410A	-	-	-	-	-	-	-	-	-	-	-	-
Total refrigerant charge (1)	°,A,U	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	kg	8,90	9,90	9,90	11,80	-	-	-	-	-	-	-	-	-	-	-
	L	kg	8,30	8,30	9,80	9,80	-	-	-	-	-	-	-	-	-	-	-
	N	kg	9,90	9,90	11,80	-	-	-	-	-	-	-	-	-	-	-	-
Potential global heating (GWP)	°,A,U																
	E,L		2088	2088	2088	2088	-	-	-	-	-	-	-	-	-	-	-
	N		2088	2088	2088	-	-	-	-	-	-	-	-	-	-	-	-
Equivalent CO_2	°,A,U	tCO_2eq	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	tCO_2eq	18,58	20,67	20,67	24,63	-	-	-	-	-	-	-	-	-	-	-
	L	tCO_2eq	17,33	17,33	20,46	20,46	-	-	-	-	-	-	-	-	-	-	-
	N	tCO_2eq	20,67	20,67	24,63	-	-	-	-	-	-	-	-	-	-	-	-

(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	0602	0604	0652	0654	0682	0702	0704	0752	0754
System side heat exchanger																	
Type	°,A,E,L,N,U	type	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Number	°,A	no.	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1
	E,L,N	no.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	U	no.	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Hydraulic connections																	
Connections (in/out)	°,A,E,L,N,U	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
	E,L,N	Ø	2″1/2														
	U	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

Fans

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fan																	
Type	°,A,E,L,N,U	type	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Number	°	no.	-	-	-	-	2	2	2	2	3	3	3	2	2	3	3
	A	no.	-	-	-	-	2	2	2	2	3	3	3	2	3	3	3
	E	no.	6	6	8	8	2	2	2	2	3	3	3	2	3	3	3
	L	no.	4	6	6	8	2	2	2	2	3	3	3	2	2	3	3
	N	no.	6	8	8	2	2	2	3	3	3	4	4	3	3	4	4
	U	no.	-	-	-	2	2	2	3	3	3	4	4	3	3	4	4

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: °																	
Fan																	
Fan motor	°,A,U	type	Asynchronous														
	E,L,N	type	Asynchronous with phase cut														
Air flow rate	°,A,U	m^3/h	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	m^3/h	20700	22200	27500	24800	-	-	-	-	-	-	-	-	-	-	-
	L	m^3/h	15200	20700	22200	27500	-	-	-	-	-	-	-	-	-	-	-
	N	m^3/h	22200	27500	24800	-	-	-	-	-	-	-	-	-	-	-	-
Sound data calculated in cooling mode (1)																	
Sound power level	°,A,U	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	E	dB(A)	72,4	72,9	73,7	73,9	-	-	-	-	-	-	-	-	-	-	-
	L	dB(A)	71,8	72,9	73,3	73,9	-	-	-	-	-	-	-	-	-	-	-
	N	dB(A)	72,4	73,3	73,7	-	-	-	-	-	-	-	-	-	-	-	-

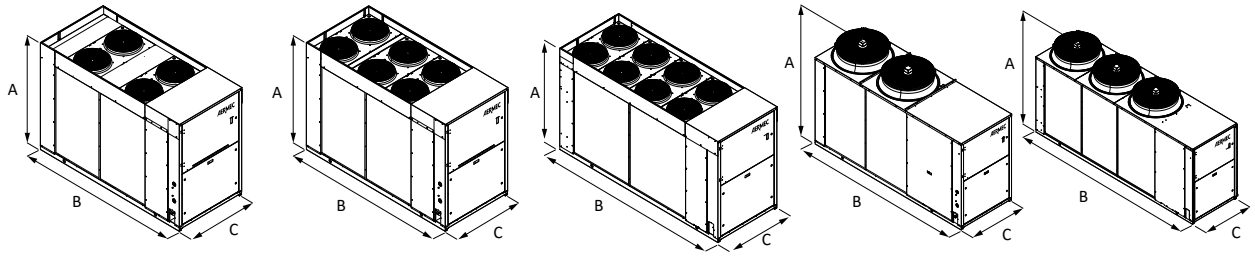
(1) Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: M																	
Increased fan																	
Fan motor	°,A,U	type	Asynchronous														
	E,L,N	type	Asynchronous with phase cut														
With static pressure																	
Air flow rate	°	m^3/h	-	-	-	-	36600	36600	35100	35100	35100	33700	55200	53100	53100	53100	53100
	A	m^3/h	-	-	-	-	35100	35100	33800	33800	33700	53100	53100	51100	51100	51100	51100
	E	m^3/h	20700	22200	27500	24800	26800	26800	25600	25600	25600	40500	40500	38800	38800	38800	38800
	L	m^3/h	15200	20700	22200	27500	30900	30900	29500	29500	46500	44600	44600	29500	28300	44600	44600
	N	m^3/h	22200	27500	24800	26800	25600	25600	40500	40500	40500	38800	38800	54600	54600	54600	54600
	U	m^3/h	-	-	-	35100	33700	33700	53100	53100	53100	51100	51100	71200	71200	71200	71200
High static pressure	°,A,U	Pa	-	-	-	-	50	50	50	50	50	50	50	50	50	50	50
	E,L	Pa	80	80	80	80	50	50	50	50	50	50	50	50	50	50	50
	N	Pa	80	80	80	50	50	50	50	50	50	50	50	50	50	50	50
Sound power level	°	dB(A)	-	-	-	-	84,5	85,0	85,3	84,2	85,5	84,3	86,9	87,0	85,9	87,7	87,5
	A	dB(A)	-	-	-	-	84,5	85,0	85,3	84,2	85,5	85,9	86,9	87,0	85,9	87,7	87,5
	E	dB(A)	72,4	72,9	73,7	73,9	80,7	81,5	82,1	76,1	82,5	77,2	83,6	83,8	77,4	85,0	83,0
	L	dB(A)	71,8	72,9	73,3	73,9	80,7	81,5	82,1	76,1	82,5	76,5	83,6	83,8	77,4	85,0	83,5
	N	dB(A)	72,4	73,3	73,7	79,7	80,7	81,5	83,0	76,9	83,4	77,2	83,6	84,5	77,9	85,5	83,3
	U	dB(A)	-	-	-	84,0	84,5	85,0	86,6	85,8	86,8	85,9	86,9	87,9	87,0	88,5	88,5
Without Static pressure																	
Air flow rate	°	m^3/h	-	-	-	-	42300	42300	40400	40400	40400	38700	63700	61000	61000	61000	61000
	A	m^3/h	-	-	-	-	40400	40400	38600	38600	38600	61100	61000	58500	58500	58500	58500
	E	m^3/h	-	-	-	-	26800	26800	25600	25600	25600	40500	40500	38800	38800	38800	38800
	L	m^3/h	-	-	-	-	30900	30900	29500	29500	29500	28300	46500	44600	44600	44600	44600
	N	m^3/h	-	-	-	26800	25600	25600	40500	40500	40500	38800	38800	54600	54600	54600	54600
	U	m^3/h	-	-	-	45700	44000	44000	69000	69000	69000	66500	69000	66500	66500	66500	66500
High static pressure	°,A,E,L	Pa	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0
	N,U	Pa	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
Sound power level	°	dB(A)	-	-	-	-	86,6	86,8	87,0	86,0	87,1	86,0	88,2	88,3	87,7	88,6	88,5
	A	dB(A)	-	-	-	-	86,6	86,8	87,0	86,0	87,1	87,7	88,2	88,3	87,7	88,6	88,5
	E	dB(A)	-	-	-	-	80,7	81,5	82,1	76,1	82,5	77,2	83,6	83,8	77,4	85,0	83,0
	L	dB(A)	-	-	-	-	80,7	81,5	82,1	76,1	82,5	76,5	83,6	83,8	77,4	85,0	83,5
	N	dB(A)	-	-	-	79,7	80,7	81,5	83,0	76,9	83,4	77,2	83,6	84,5	77,9	85,5	83,3
	U	dB(A)	-	-	-	86,4	86,6	86,8	88,5	87,7	88,6	87,7	88,2	89,3	88,9	89,6	89,6

Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Fans: J																	
Inverter fan																	
Fan motor	°,A,E,L,N,U	type	Inverter														
Air flow rate	°	m^3/h	-	-	-	-	36600	36600	35100	35100	35100	33700	55200	53100	53100	53100	53100
	A	m^3/h	-	-	-	-	35100	35100	33800	33800	33700	53100	53100	51100	51100	51100	51100
	E	m^3/h	20700	22200	27500	24800	26800	26800	25600	25600	25600	40500	40500	38800	38800	38800	38800
	L	m^3/h	15200	20700	22200	27500	30900	30900	29500	29500	29500	28300	46500	44600	44600	44600	44600
	N	m^3/h	22200	27500	24800	26800	25600	25600	40500	40500	40500	38800	38800	54600	54600	54600	54600
	U	m^3/h	-	-	-	35100	33700	33700	53100	53100	51100	71200	71200	53100	51100	71200	71200
High static pressure	°,A	Pa	-	-	-	-	120	120	120	120	120	120	120	120	120	120	120
	E,L	Pa	20	20	20	20	120	120	120	120	120	120	120	120	120	120	120
	N	Pa	20	20	20	120	120	120	120	120	120	120	120	120	120	120	120
	U	Pa	-	-	-	120	120	120	120	120	120	120	120	120	120	120	120
Sound data calculated in cooling mode (1)																	
Sound power level	°	dB(A)	-	-	-	-	84,5	85,0	85,3	84,2	85,5	84,3	86,9	87,0	85,9	87,7	87,5
	A	dB(A)	-	-	-	-	84,5	85,0	85,3	84,2	85,5	85,9	86,9	87,0	85,9	87,7	87,5
	E	dB(A)	72,4	72,9	73,7	73,9	80,7	81,5	82,1	76,1	82,5	77,2	83,6	83,8	77,4	85,0	83,0
	L	dB(A)	71,8	72,9	73,3	73,9	80,7	81,5	82,1	76,1	82,5	76,5	83,6	83,8	77,4	85,0	83,5
	N	dB(A)	72,4	73,3	73,7	79,7	80,7	81,5	83,0	76,9	83,4	77,2	83,6	84,5	77,9	85,5	83,3
	U	dB(A)	-	-	-	84,0	84,5	85,0	86,6	86,8	86,9	87,9	88,5	85,8	85,9	87,0	88,5

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

DIMENSIONS



Size			0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
Dimensions and weights																	
A	°,A	mm	-	-	-	-	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898
	E,L	mm	1680	1680	1680	1680	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898
	N	mm	1680	1680	1680	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898
	U	mm	-	-	-	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898
B	°	mm	-	-	-	-	3200	3200	3200	3200	3200	3200	4010	4010	4010	4010	4010
	A	mm	-	-	-	-	3200	3200	3200	3200	3200	4010	4010	4010	4010	4010	4010
	E	mm	2450	2950	2950	2950	3200	3200	3200	3200	3200	4010	4010	4010	4010	4010	4010
	L	mm	2450	2450	2950	2950	3200	3200	3200	3200	3200	3200	4010	4010	4010	4010	4010
	N	mm	2950	2950	2950	3200	3200	3200	4010	4010	4010	4010	4010	5200	5200	5200	5200
	U	mm	-	-	-	3200	3200	3200	4010	4010	4010	4010	4010	5200	5200	5200	5200
C	°,A	mm	-	-	-	-	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
	U	mm	-	-	-	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Weights																	
Without hydronic kit	°	kg	-	-	-	-	993	1018	1075	1160	1075	1210	1267	1427	1331	1440	1392
	A	kg	-	-	-	-	1046	1072	1116	1200	1116	1325	1347	1507	1410	1531	1471
	E	kg	828	889	912	962	1046	1072	1116	1116	1347	1507	1531	1200	1325	1410	1471
	L	kg	810	828	894	907	993	1018	1075	1160	1075	1210	1267	1427	1331	1440	1392
	N	kg	884	907	957	1020	1076	1109	1232	1243	1426	1647	1660	1327	1415	1549	1607
	U	kg	-	-	-	1020	1076	1109	1232	1243	1426	1647	1660	1327	1415	1549	1607

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