

NRB 0282-0754

Air-water chiller

Cooling capacity 56 ÷ 202 kW

- High seasonal efficiency
- Night mode
- Reduced amount of refrigerant
- 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
- ▲ High efficiency
- Silenced high efficiency
- Standard silenced
- Silenced very high efficiency
- 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 adjustment, with keyboard and LCD display, for easy access on the unit is 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:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
- **Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan**

ACCESSORIES

AER48P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

SGD: Electronic expansion that enables connecting to the photovoltaic system and heat pumps to accumulate heat in the DHW tank or in the heating system during the photovoltaic production phase and release it at times when heating demand is highest.

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					•	•	•	•	•	•	•	•	•	•	•
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	E,L,N	•	•	•	•											
	U					•										

Condensation control temperature

Ver	0282	0302	0332	0352	0502	0552	0602	0604
Fans: °								
E,L	DCPX140	DCPX140	DCPX140	DCPX140	-	-	-	-
N	DCPX140	DCPX140	DCPX140	-	-	-	-	-
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				
U	-	-	-	DCPX142	DCPX142	DCPX142	DCPX143	DCPX143
Ver	0652	0654	0682	0702	0704	0752	0754	
Fans: M								
°	DCPX142	DCPX142	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143	DCPX143
A	DCPX142	DCPX143						
E,L,N	As standard							
U	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	VT11	VT22	VT22	VT22	VT22	VT22
E	VT17	VT17	VT17	VT17	VT11	VT11	VT11	VT11	VT11	VT11	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	VT11	VT22	VT22	VT22	VT22	VT22
E	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT11	VT11	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
°	-	-	-	-	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)
A	-	-	-	-	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)
E	GP3	GP4	GP4	GP4	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)
L	GP3	GP3	GP4	GP4	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)
N	GP4	GP4	GP4	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP14x4(1)	GP14x4(1)	GP14x4(1)	GP14x4(1)
U	-	-	-	GP2x2(1)	GP2x2(1)	GP2x2(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP2x3(1)	GP14x4(1)	GP14x4(1)	GP14x4(1)	GP14x4(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

The accessory cannot be fitted on the configurations indicated with -

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

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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)

(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
°,A	-	-	-	-	T6NRB8	T6NRB8	T6NRB8	T6NRB8
E,L	T6NRB6	T6NRB6	T6NRB6	T6NRB6	T6NRB8	T6NRB8	T6NRB11	T6NRB11
N	T6NRB6	T6NRB6	T6NRB6	T6NRB8	T6NRB8	T6NRB8	T6NRB11	T6NRB11
U	-	-	-	-	T6NRB8	T6NRB8	T6NRB8	T6NRB11

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														

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

CONFIGURATOR

Configuration options

Field	Description
1,2,3	NRB
	Size
4,5,6,7	0282, 0302, 0332, 0352, 0502, 0552, 0602, 0604, 0652, 0654, 0682, 0702, 0704, 0752, 0754
8	Operating field
	◦ Standard mechanic thermostatic valve (1)
X	Electronic thermostatic expansion valve (1)
Y	Double mechanical thermostat for low temperature (2)
Z	Low temperature electronic thermostatic valve (3)
9	Model
	◦ Cooling only
C	Motocondensing unit
10	Heat recovery
	◦ Without heat recovery
D	With desuperheater (4)
T	With total recovery (4)
11	Version
	◦ Standard
A	High efficiency
E	Silenced high efficiency
L	Standard silenced
N	Silenced very high efficiency
U	Very high efficiency
12	Coils
	◦ Copper-aluminium
R	Copper pipes-copper fins
S	Copper pipes-Tinned copper fins
V	Copper pipes-Coated aluminium fins
13	Fans
	◦ Standard (5)
J	Inverter
M	Oversized (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

Field	Description
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 size from 0282 to 0352 versions E - L and in size from 0282 to 0332 version N

(6) As standard in sizes from 0502 to 0754 version "A - E - L, in sizes from 0352 to 0754 version N - U

(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) L'opzione Y e Z non è compatibile con W1/W2/W3/W4

PERFORMANCE SPECIFICATIONS

NRB - O

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	-	-	-	-	59,0	65,0	71,0	80,0	81,0	92,0	93,0	102,0	104,0	117,0	117,0
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	-	-	-	-	16941	18444	21694	21620	23270	24282	27502	30805	29385	33700	33309
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	35,0	41,0	46,0	54,0	59,0	65,0	72,0	82,0	82,0	95,0	93,0	102,0	105,0	119,0	119,0
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	9734	11090	12722	14734	16583	18007	21114	20937	22592	23230	26870	30010	28645	32685	32255
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	-	-	-	-	55,0	59,0	68,0	73,0	74,0	77,0	86,0	94,0	98,0	103,0	107,0
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	-	-	-	-	17889	19764	22404	22344	24116	25867	28897	32172	30430	35736	34210
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	32,0	36,0	41,0	46,0	54,0	59,0	69,0	75,0	77,0	77,0	86,0	95,0	100,0	107,0	110,0
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	10429	11774	13258	15372	17275	19020	21329	21052	22807	24939	27779	30648	28950	33719	32307
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	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	-	-	-	-	51,0	56,0	61,0	68,0	76,0	76,0	86,0	88,0	101,0	104,0	116,0	115,0
EER	W/W	-	-	-	-	3,42	3,39	3,40	3,40	3,34	3,32	3,36	3,39	3,23	3,21	3,21	3,21
Water flow rate system side	l/h	-	-	-	-	15945	17984	20172	22745	23741	25275	26327	29532	32945	31067	36076	34915
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	33,0	39,0	44,0	50,0	55,0	62,0	66,0	74,0	75,0	85,0	88,0	100,0	102,0	116,0	114,0
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	10460	11884	13249	15444	17352	19347	22150	22978	24481	25334	28325	31856	30031	34611	33586
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: °																
SEER - 12/7 (EN14825: 2018) (1)																
SEER																
°,A,U		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	-	-	-	-	-	-	-	-	-	-	-
°,A,U		%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency		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	-	-	-	-	-	-	-	-	-	-	-
SEER - 23/18 (EN14825: 2018) (2)																
SEER																
°,A,U		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	-	-	-	-	-	-	-	-	-	-	-
°,A,U		%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency		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	-	-	-	-	-	-	-	-	-	-	-
SEPR - (EN 14825: 2018) (2)																
SEPR																
°,A,U		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	-	-	-	-	-	-	-	-	-	-	-

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

(2) Calculation performed with FIXED water flow rate.

Size		0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754		
Fans: J																		
SEER - 12/7 (EN14825: 2018) (1)																		
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	
°		%	-	-	-	-	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	
Seasonal efficiency		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) (2)																		
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	
°		%	-	-	-	-	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	
Seasonal efficiency		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) (2)																		
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								

Size	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754		
Fans: M																	
SEER - 12/7 (EN14825: 2018) (1)																	
SEER	°	W/W	-	-	-	-	4,23	4,13	4,29	- (2)	4,16	- (2)	4,18	4,16	- (2)	4,14	- (2)
	A	W/W	-	-	-	-	4,37	4,37	4,48	- (2)	4,37	- (2)	4,38	4,29	- (2)	4,33	- (2)
	E	W/W	4,48	4,58	4,49	4,42	4,37	4,35	4,42	- (2)	4,24	- (2)	4,40	4,21	- (2)	4,23	- (2)
	L	W/W	4,28	4,27	4,35	4,27	4,25	4,14	4,27	- (2)	4,11	- (2)	4,22	4,13	- (2)	4,11	- (2)
	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																	
SEER - 23/18 (EN14825: 2018) (3)																	
SEPR - (EN 14825: 2018) (3)																	
(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.																	
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C																	
(3) Calculation performed with FIXED water flow rate.																	

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)																	

GENERAL TECHNICAL DATA

Size	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754		
Compressor																	
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,E,L,N,U	type														R410A	
	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
System side heat exchanger																	
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															
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
	E,L,N	Ø													
	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

G.s. = Grooved joints

Fans

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

Size	0282	0302	0332	0352	0502	0552	0602	0604	0652	0654	0682	0702	0704	0752	0754
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Fans: °

Fan	°,A,U	type	Asynchronous
Fan motor	°,A,U	type	Asynchronous with phase cut
Air flow rate	m³/h	-	-
	E	20700 22200 27500 24800	-
	L	15200 20700 22200 27500	-
	N	22200 27500 24800	-
Sound data calculated in cooling mode (1)			
Sound power level	°,A,U	dB(A)	- -
	E	72,4 72,9 73,7 73,9	- -
	L	71,8 72,9 73,3 73,9	- -
	N	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
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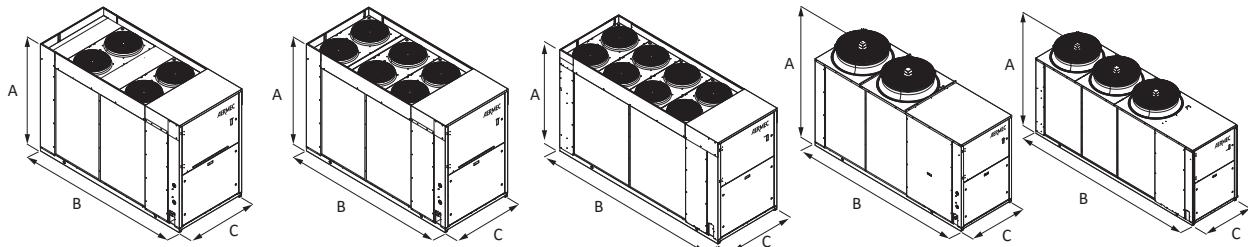
Fans: M

Increased fan	°,A,U	type	Asynchronous
Fan motor	E,L,N	type	Asynchronous with phase cut
With static pressure			
Air flow rate	°	m³/h	- -
	A	m³/h	- -
	E	m³/h	20700 22200 27500 24800
	L	m³/h	15200 20700 22200 27500
	N	m³/h	22200 27500 24800
	U	m³/h	- - - - - 35100 33700 33700 53100 53100 53100 53100 53100
High static pressure	°,A,U	Pa	- - - - - 50 50 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 80 50 50 50 50 50 50 50 50 50 50 50
Sound power level			
	°,A,U	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 87,0 88,5 88,7 87,0 88,5 88,5
Without Static pressure			
Air flow rate	°	m³/h	- - - - - 42300 42300 40400 40400 40400 38700 63700 61000 61000 61000 61000 61000
	A	m³/h	- - - - - 40400 40400 38600 38600 38600 61100 61000 58500 58500 58500 58500 58500
	E	m³/h	- - - - - 26800 26800 25600 25600 25600 40500 40500 38800 38800 38800 38800 38800
	L	m³/h	- - - - - 30900 30900 29500 29500 29500 40500 40500 38800 38800 38800 38800 38800
	N	m³/h	- - - - - 26800 25600 25600 40500 40500 40500 38800 38800 38800 38800 38800 38800
	U	m³/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 0 0 0
	N,U	Pa	- - - - - 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sound power level			
	°,A,E,L	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															
° m³/h - - - - 36600 36600 35100 35100 33700 55200 53100 53100 53100 53100 53100															
A m³/h - - - - 35100 35100 33800 33800 33700 53100 53100 51100 51100 51100 51100 51100															
Air flow rate E m³/h 20700 22200 27500 24800 26800 26800 25600 25600 40500 40500 38800 38800 38800 38800 38800															
L m³/h 15200 20700 22200 27500 30900 30900 29500 29500 28300 46500 44600 44600 44600 44600 44600															
N m³/h 22200 27500 24800 26800 25600 25600 40500 40500 38800 38800 54600 54600 54600 54600 54600															
U m³/h - - - - 35100 33700 53100 53100 51100 71200 71200 53100 51100 71200 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 20 120 120 120 120 120 120 120 120 120 120 120 120 120															
U Pa - - - - 120 120 120 120 120 120 120 120 120 120 120 120															
Sound data calculated in cooling mode (1)															
° dB(A) - - - - 84,5 85,0 85,3 85,5 86,9 87,0 87,7 84,2 84,3 85,9 87,5															
A dB(A) - - - - 84,5 85,0 85,3 85,5 86,9 87,0 87,7 84,2 85,9 85,9 87,5															
Sound power level E dB(A) 72,4 72,9 73,7 73,9 80,7 81,5 82,1 82,5 83,6 83,8 85,0 76,1 77,2 77,4 83,0															
L dB(A) 71,8 72,9 73,3 73,9 80,7 81,5 82,1 82,5 83,6 83,8 85,0 76,1 76,5 77,4 83,5															
N dB(A) 72,4 73,3 73,7 79,7 80,7 81,5 83,0 83,4 83,6 84,5 85,5 76,9 77,2 77,9 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 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 1898															
U mm - - - - 1898 1898 1898 1898 1898 1898 1898 1898 1898 1898 1898 1898 1898 1898															
B °A mm - - - - 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 4010 4010 4010 4010															
A mm - - - - 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 4010 4010 4010 4010															
E mm 2450 2950 2950 2950 3200 3200 3200 3200 3200 3200 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 5200 5200 5200 5200 5200															
U mm - - - - 3200 3200 3200 4010 4010 4010 4010 4010 5200 5200 5200 5200 5200															
C °A mm - - - - 1100 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															
U mm - - - - 1100 1100 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 1531 1200 1325 1410 1531 1471															
E kg 828 889 912 962 1046 1072 1116 1116 1347 1507 1531 1200 1325 1410 1531 1471															
L kg 810 828 894 907 993 1018 1075 1160 1075 1210 1267 1427 1331 1440 1531 1471															
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 reserves the right to make any modifications deemed necessary.
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