

NRG-0800-2400-B

Air-cooled chiller with free cooling (glycol-free)

Cooling capacity 224 ÷ 717 kW



- Microchannel coil
- Night mode
- High efficiency also at partial loads



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 axial fan, microchannel batteries and plate exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

- A** High efficiency
- E** Silenced high efficiency
- N** Silenced very high efficiency
- U** Very high efficiency

FEATURES

Operating field

Operation at full load up to 49 °C external air temperature. Unit can produce chilled water up to -10,0 °C.

For more information refer to the selection program and to the dedicated documentation.

Refrigerant HFC R32

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

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.*

Dual-circuit unit

Unit with 2 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode.

Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

Free cooling with glycol water

Intermediate plate heat exchanger that creates two circuits:

1. Glycol hydraulic circuit (glycol is added to protect the coil from freezing).
2. Primary hydraulic circuit for glycol-free systems.

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 efficiency of the unit.

Option integrated hydronic kit

To obtain a solution that allows you to save money and to facilitate installation. These units can be configured with an integrated hydronic system.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

CONTROL PCO₅

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the adjustment includes complete management of the alarms and their log.

- Possibility to control two units in a Master-Slave configuration
- 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.

— **Night mode:** only in the **non-silenced** versions it is possible to set a silenced operating mode, which is useful for example at night for greater

acoustic comfort but always guarantees performance even at peak load times.

CONFIGURATOR

Field	Description
1,2,3	NRG
4,5,6,7	Size 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400
8	Operating field
X	Electronic thermostatic expansion valve
Z	Low temperature electronic thermostatic valve
9	Model
B	Free-cooling glycol free
10	Heat recovery
D	With desuperheater (1)
°	Without heat recovery
11	Version
A	High efficiency
E	Silenced high efficiency
N	Silenced very high efficiency
U	Very high efficiency
12	Coils / free-cooling coils
I	Copper-aluminium / Copper-aluminium
O	Painted aluminium microchannel / Copper painted aluminium
R	Copper-copper/Copper-copper
V	Copper-painted aluminium / Copper-painted aluminium
°	Alluminium microchannel / Copper - aluminium
13	Fans
J	Inverter
M	Oversized with DCPX
14	Power supply
°	400V ~ 3 50Hz with magnet circuit breakers
15,16	Integrated hydronic kit
00	Without hydronic kit
	Kit with n° 1 pump
PA	Pump A
PB	Pump B
PC	Pump C
PD	Pump D
PE	Pump E
PF	Pump F

Field	Description
PG	Pump G
PH	Pump H
PI	Pump I
	Pump n° 1 pump + stand-by pump
DA	Pump A + stand-by pump
DB	Pump B + stand-by pump
DC	Pump C + stand-by pump
DD	Pump D + stand-by pump
DE	Pump E + stand-by pump
DF	Pump F + stand-by pump
DG	Pump G + stand-by pump
DH	Pump H + stand-by pump
DI	Pump I + stand-by pump
	Kit with n° 1 inverter pump to fixed speed
IA	Pump A equipped with inverter device to work at fixed speed
IB	Pump B equipped with inverter device to work at fixed speed
IC	Pump C equipped with inverter device to work at fixed speed
ID	Pump D equipped with inverter device to work at fixed speed
IE	Pump E equipped with inverter device to work at fixed speed
IF	Pump F equipped with inverter device to work at fixed speed
IG	Pump G equipped with inverter device to work at fixed speed
IH	Pump H equipped with inverter device to work at fixed speed
II	Pump I equipped with inverter device to work at fixed speed
	Kit with n° 1 inverter pump + stand-by pump to fixed speed
JA	Pump A+stand-by pump, both equipped with inverter to work at fixed speed
JB	Pump B+stand-by pump, both equipped with inverter to work at fixed speed
JC	Pump C+stand-by pump, both equipped with inverter to work at fixed speed
JD	Pump D+stand-by pump, both equipped with inverter to work at fixed speed
JE	Pump E+stand-by pump, both equipped with inverter to work at fixed speed
JF	Pump F+stand-by pump, both equipped with inverter to work at fixed speed
JG	Pump G+stand-by pump, both equipped with inverter to work at fixed speed
JH	Pump H+stand-by pump, both equipped with inverter to work at fixed speed
JI	Pump I+stand-by pump, both equipped with inverter to work at fixed speed

(1) 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. For further information please contact the head office.

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 Custom-

er benefits from a 24-month free period during which he can use the Aernet Service at no additional cost. At the end of this initial period, the Service may be renewed by subscribing to a 1, 2 or 3 year subscription. For further details on costs and renewal methods, please contact our office or consult the technical documentation available on our website. www.aermec.com.

FL: Flow switch.

MULTICHILLER-EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel (max. no. 9), always ensuring constant flow rate to the evaporators.

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

PR4: Remote panel with LCD display and touch keyboard that allows carrying out the basic controls, the programming of time ranges and the signalling of the alarms of a single unit.

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

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

Model	Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
AER485P1	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.
AERBAC-ONE	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.
AERBACP	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.
AERLINK	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.
AERNET	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.
FL	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.
MULTICHILLER-EVO	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.
PGD1	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.

Remote panel

Model	Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
PR4	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.

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

Antivibration

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Integrated hydronic kit: 00											
A	AVX1277	AVX1277	AVX1301	AVX1301	AVX1301	AVX1303	AVX1303	AVX1308	AVX1308	AVX1307	AVX1307
E, U	AVX1301	AVX1301	AVX1301	AVX1302	AVX1303	AVX1304	AVX1304	AVX1307	AVX1310	AVX1310	AVX1311
N	AVX1302	AVX1302	AVX1302	AVX1304	AVX1304	AVX1304	AVX1307	AVX1310	AVX1311	AVX1311	AVX1313
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI											
A	AVX1285	AVX1285	AVX1301	AVX1301	AVX1306	AVX1303	AVX1303	AVX1309	AVX1309	AVX1307	AVX1307
E, U	AVX1301	AVX1301	AVX1301	AVX1303	AVX1303	AVX1304	AVX1304	AVX1307	AVX1310	AVX1310	AVX1312
N	AVX1302	AVX1302	AVX1302	AVX1305	AVX1304	AVX1304	AVX1307	AVX1310	AVX1312	AVX1312	AVX1313

Device for peak current reduction

Ver	0800	0900	1000	1100	1200	1400
A, E, N, U	DRENRG0800	DRENRG0900	DRENRG1000	DRENRG1100	DRENRG1200	DRENRG1400

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

Ver	1600	1800	2000	2200	2400
A, E, N, U	DRENRG1600	DRENRG1800	DRENRG2000	DRENRG2200	DRENRG2400

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

Power factor correction

Ver	0800	0900	1000	1100	1200	1400
A, E, N, U	RIFNRG0800	RIFNRG0900	RIFNRG1000	RIFNRG1100	RIFNRG1200	RIFNRG1400

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

Ver	1600	1800	2000	2200	2400
A, E, N, U	RIFNRG1600	RIFNRG1800	RIFNRG2000	RIFNRG2200	RIFNRG2400

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

Double safety valves

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
A, E, N, U	T6NRGLS1	T6NRGLS2	T6NRGLS3	T6NRGLS3	T6NRGLS3						

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

Anti-intrusion grid

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Integrated hydronic kit: 00											
A	GP2VN	GP2VN	GP3G	GP3G	GP3G	GP4GM	GP4GM	GP5G	GP5G	GP6G	GP6G
E, U	GP3G	GP3G	GP3G	GP4GM	GP4GM	GP5GM	GP5GM	GP6G	GP7G	GP7G	GP8G
N	GP4GM	GP4GM	GP4GM	GP5GM	GP5GM	GP5GM	GP6G	GP7G	GP8G	GP8G	GP9G
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI											
A	GP2VNA	GP2VNA	GP3G	GP3G	GP3G	GP4GM	GP4GM	GP5G	GP5G	GP6G	GP6G
E, U	GP3G	GP3G	GP3G	GP4GM	GP4GM	GP5GM	GP5GM	GP6G	GP7G	GP7G	GP8G
N	GP4GM	GP4GM	GP4GM	GP5GM	GP5GM	GP5GM	GP6G	GP7G	GP8G	GP8G	GP9G

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

PERFORMANCE SPECIFICATIONS

NRG - A

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Cooling performance chiller operation (1)												
Cooling capacity	kW	223,9	245,3	284,1	324,7	368,2	419,0	462,1	535,9	599,5	654,7	692,5
Input power	kW	73,0	82,9	91,3	106,0	122,2	134,8	152,7	172,3	197,6	212,9	230,2
Cooling total input current	A	129,00	146,00	160,00	184,00	209,00	229,00	254,00	293,00	337,00	356,00	381,00
EER	W/W	3,07	2,96	3,11	3,06	3,01	3,11	3,03	3,11	3,03	3,07	3,01
Water flow rate system side	l/h	38.467	42.143	48.813	55.779	63.264	71.985	79.391	92.073	103.007	112.479	118.984
Pressure drop system side	kPa	70	85	99	111	116	92	88	107	125	115	105
Cooling performances with free-cooling glycol-free (2)												
Cooling capacity	kW	122,1	122,1	178,1	179,1	179,8	241,5	241,5	302,6	302,5	368,7	368,6
Input power	kW	9,9	9,9	14,4	14,4	14,5	19,3	19,3	24,5	24,4	32,3	32,3
Free cooling total input current	A	18,0	17,0	25,0	25,0	25,0	33,0	32,0	42,0	42,0	54,0	54,0
EER	W/W	12,32	12,32	12,36	12,41	12,44	12,54	12,54	12,37	12,37	11,40	11,40
Water flow rate system side	l/h	38.467	42.143	48.813	55.779	63.264	71.985	79.391	92.073	103.007	112.479	118.984
Pressure drop system side	kPa	70	85	99	111	116	92	88	107	125	115	105

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

NRG - E

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Cooling performance chiller operation (1)												
Cooling capacity	kW	226,2	251,9	274,9	324,9	370,2	416,7	456,6	531,6	606,0	638,0	691,8
Input power	kW	72,4	82,1	92,0	106,0	123,9	136,5	153,7	175,2	197,7	215,9	227,8
Cooling total input current	A	122,00	139,00	156,00	176,00	201,00	220,00	245,00	284,00	319,00	346,00	363,00
EER	W/W	3,12	3,07	2,99	3,06	2,99	3,05	2,97	3,03	3,07	2,95	3,04
Water flow rate system side	l/h	38.872	43.273	47.230	55.828	63.599	71.601	78.444	91.335	104.110	109.612	118.851
Pressure drop system side	kPa	73	78	90	98	88	73	87	100	127	90	101
Cooling performances with free-cooling glycol-free (2)												
Cooling capacity	kW	146,6	146,6	146,6	194,7	194,8	246,0	246,0	301,6	343,8	345,9	393,2
Input power	kW	11,1	11,1	11,1	14,8	14,8	18,9	18,9	25,6	29,3	29,7	32,5
Free cooling total input current	A	19,0	19,0	19,0	25,0	24,0	31,0	30,0	41,0	47,0	48,0	52,0
EER	W/W	13,20	13,20	13,20	13,18	13,18	13,00	13,00	11,79	11,73	11,64	12,12
Water flow rate system side	l/h	38.872	43.273	47.230	55.828	63.599	71.601	78.444	91.335	104.110	109.612	118.851
Pressure drop system side	kPa	73	78	90	98	88	73	87	100	127	90	101

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

NRG - U

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Cooling performance chiller operation (1)												
Cooling capacity	kW	233,1	260,7	285,8	336,2	385,1	431,6	474,7	552,3	627,9	664,0	717,7
Input power	kW	72,7	81,3	90,2	105,2	121,2	135,0	151,0	173,5	195,9	212,0	225,5
Cooling total input current	A	129,00	145,00	160,00	183,00	206,00	228,00	250,00	291,00	330,00	353,00	374,00
EER	W/W	3,21	3,20	3,17	3,19	3,18	3,20	3,14	3,18	3,21	3,13	3,18
Water flow rate system side	l/h	40.049	44.784	49.102	57.760	66.170	74.152	81.560	94.895	107.889	114.087	123.303
Pressure drop system side	kPa	77	84	97	105	96	78	94	107	136	98	109
Cooling performances with free-cooling glycol-free (2)												
Cooling capacity	kW	178,1	178,1	178,1	235,6	235,8	301,9	301,8	364,5	420,7	427,1	481,5
Input power	kW	14,4	14,4	14,4	19,2	19,2	24,4	24,4	32,2	37,0	37,4	41,3
Free cooling total input current	A	26,0	26,0	26,0	33,0	33,0	41,0	40,0	54,0	62,0	62,0	68,0
EER	W/W	12,36	12,36	12,36	12,28	12,29	12,36	12,36	11,33	11,37	11,41	11,67
Water flow rate system side	l/h	40.049	44.784	49.102	57.760	66.170	74.152	81.560	94.895	107.889	114.087	123.303
Pressure drop system side	kPa	77	84	97	105	96	78	94	107	136	98	109

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

NRG - N

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Cooling performance chiller operation (1)												
Cooling capacity	kW	232,6	258,9	286,6	334,6	383,1	422,5	473,7	546,9	617,8	658,1	707,5
Input power	kW	71,7	81,1	90,4	104,8	120,5	134,5	150,6	174,0	195,5	210,5	225,7
Cooling total input current	A	121,00	136,00	152,00	173,00	195,00	221,00	238,00	277,00	314,00	338,00	357,00
EER	W/W	3,24	3,19	3,17	3,19	3,18	3,14	3,14	3,14	3,16	3,13	3,14
Water flow rate system side	l/h	39.959	44.482	49.239	57.495	65.813	72.590	81.381	93.965	106.146	113.074	121.557
Pressure drop system side	kPa	77	84	97	104	95	82	88	105	132	95	105
Cooling performances with free-cooling glycol-free (2)												
Cooling capacity	kW	193,3	193,3	193,3	241,1	241,3	245,3	301,4	343,8	390,1	393,2	439,7
Input power	kW	14,7	14,7	14,7	18,5	18,5	18,8	25,6	29,3	32,0	32,5	35,2
Free cooling total input current	A	25,0	25,0	25,0	30,0	30,0	31,0	40,0	47,0	51,0	52,0	56,0
EER	W/W	13,14	13,14	13,14	13,03	13,03	13,03	11,80	11,73	12,18	12,12	12,51
Water flow rate system side	l/h	39.959	44.482	49.239	57.495	65.813	72.590	81.381	93.965	106.146	113.074	121.557
Pressure drop system side	kPa	77	84	97	104	95	82	88	105	132	95	105

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / * °C ; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

ENERGY INDICES (REG. 2016/2281 EU)

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	
Fans: J													
SEPR - (EN 14825: 2018)													
SEPR	A	W/W	6,11	5,92	6,30	6,21	6,11	6,51	6,56	6,49	6,43	6,41	6,31
	E	W/W	6,39	6,28	6,20	6,22	6,10	6,56	6,54	6,35	6,30	6,31	6,44
	N	W/W	6,64	6,46	6,47	6,44	6,34	6,77	6,72	6,56	6,44	6,54	6,61
	U	W/W	6,55	6,45	6,41	6,44	6,33	6,75	6,70	6,61	6,51	6,52	6,54
Water Regulation (1)	A,E,N,U	type	FW/FO	FW/FO	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; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	
Fans: M													
SEPR - (EN 14825: 2018)													
SEPR	A	W/W	5,90	5,74	6,12	6,07	5,96	6,48	6,48	6,41	6,34	6,27	6,18
	E	W/W	6,17	6,09	6,04	6,09	5,95	6,37	6,38	6,17	6,10	6,13	6,28
	N	W/W	6,42	6,27	6,31	6,30	6,19	6,58	6,55	6,38	6,24	6,36	6,45
	U	W/W	6,34	6,27	6,22	6,30	6,19	6,72	6,63	6,53	6,43	6,39	6,40
Water Regulation (1)	A,E,N,U	type	FW/FO	FW/FO	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; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

ELECTRIC DATA

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	
Electric data													
Maximum current (FLA)	A	A	158,2	176,5	200,6	228,5	256,4	290,1	317,9	369,5	415,3	449,0	476,9
	E,U	A	164,0	182,3	200,6	234,3	262,2	295,9	323,7	375,3	426,9	454,8	488,5
	N	A	169,8	188,1	206,4	240,1	268,0	295,9	329,5	381,1	432,7	460,6	494,3
Peak current (LRA)	A	A	361,6	417,7	436,0	685,0	718,7	746,6	774,4	826,1	871,9	899,7	933,4
	E	A	361,6	417,7	441,8	690,8	718,7	752,4	780,2	831,9	877,7	911,3	939,2
	N	A	350,0	406,1	424,4	673,4	701,3	729,2	757,0	802,9	848,7	876,5	904,4
	U	A	367,4	423,5	441,8	696,6	724,5	758,2	786,0	837,7	889,3	917,1	950,8

GENERAL TECHNICAL DATA

Refrigerant circuit

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	
Compressor													
Type	A,E,N,U	type	Scroll										
Compressor regulation	A,E,N,U	type	Asynchronous										
Number	A,E,N,U	no.	4	4	4	4	4	4	5	6	6	6	
Circuits	A,E,N,U	no.	2	2	2	2	2	2	2	2	2	2	
Refrigerant	A,E,N,U	type	R32										
Total refrigerant charge (1)	A	kg	22,50	24,00	30,00	33,00	31,50	33,80	36,80	41,30	48,00	48,80	52,50
	E,U	kg	30,80	30,00	32,30	39,80	39,80	39,80	46,50	51,80	56,30	67,50	61,50
	N	kg	39,00	39,00	40,50	44,30	52,50	52,50	61,50	60,00	75,00	68,30	68,30
Potential global heating (GWP)	A,E,N,U		675										
Equivalent CO ₂	A	tCO ₂ eq	15,19	14,72	14,85	20,25	21,26	25,99	29,36	27,84	32,40	32,91	35,44
	E,U	tCO ₂ eq	20,76	20,25	21,77	27,00	26,83	33,41	31,39	34,93	37,97	45,56	41,51
	N	tCO ₂ eq	21,60	21,60	24,37	33,48	35,44	35,44	41,51	40,50	50,63	46,07	46,07

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

System side heat exchanger

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
System side heat exchanger													
Type	A,E,N,U	type	Braze plate										
Number	A,E,N,U	no.	1	1	1	1	1	1	1	1	1	1	1
Hydraulic connections without hydronic kit													
Connections (in/out)	A,E,N,U	Type	Grooved joints										
Sizes (in/out)	A	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"
	E,N,U	Ø	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"	5"
Hydraulic connections with hydronic kit													
Connections (in/out)	A,E,N,U	Type	Grooved joints										
Sizes (in/out)	A	Ø	3"	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"
	E,N,U	Ø	3"	3"	3"	3"	4"	4"	4"	4"	4"	5"	5"

In the versions without a hydronic kit, the water filter is supplied with a connection point for making the connection. In the versions with a hydronic kit, it is supplied ready-mounted.

Fans

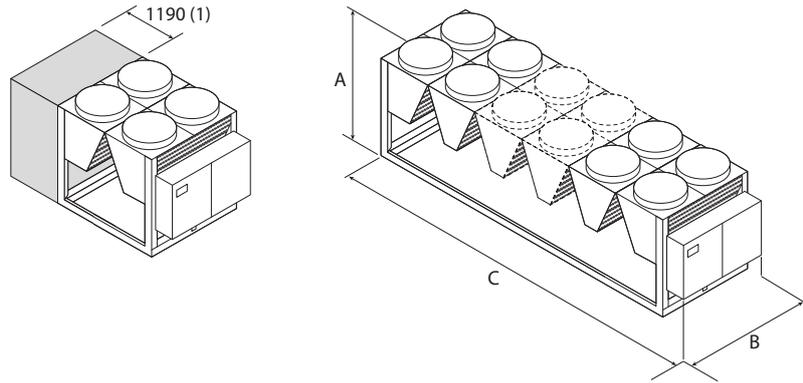
Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Fans: J, M													
Fan													
Type	A,E,N,U	type	Axial										
Number	A	no.	4	4	6	6	6	8	8	10	10	12	12
	E,U	no.	6	6	6	8	8	10	10	12	14	14	16
	N	no.	8	8	8	10	10	10	12	14	16	16	18
Air flow rate	A	m ³ /h	57976	57976	86965	86965	86965	115954	115953	144941	144941	173929	173929
	E	m ³ /h	63933	63933	63933	85244	85244	106555	106555	127866	149177	149177	170487
	N	m ³ /h	85244	85244	85244	106555	106555	106555	127866	149177	170488	170488	191798
	U	m ³ /h	86963	86963	86963	115959	115959	144934	144934	173932	202921	202921	231902

Sound data

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Fans: J, M													
Sound data calculated in cooling mode (1)													
Sound power level	A	dB(A)	90,5	90,5	90,5	90,8	91,1	92,1	92,3	93,1	93,4	94,2	94,3
	E	dB(A)	84,4	84,5	84,5	85,8	86,5	87,6	88,1	88,6	89,0	89,7	90,2
	N	dB(A)	85,3	85,4	85,4	86,9	87,6	88,1	89,0	89,4	89,8	90,5	91,0
	U	dB(A)	90,8	90,8	90,8	92,2	92,5	93,5	93,6	94,3	94,9	95,0	95,6
Sound pressure level (10 m)	A	dB(A)	58,4	58,4	58,2	58,6	58,9	59,7	59,9	60,5	60,9	61,5	61,7
	E	dB(A)	52,2	52,2	52,3	53,4	54,1	55,1	55,6	55,9	56,2	56,9	57,3
	N	dB(A)	52,9	53,0	53,0	54,4	55,0	55,6	56,3	56,6	56,9	57,6	58,0
	U	dB(A)	58,5	58,5	58,5	59,8	60,1	60,9	61,1	61,7	62,1	62,2	62,7

(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 (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



Key:

1 Additional module needed to contain the hydronic kit with "pumps" option in sizes: 0800 A- 0900 A

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Integrated hydronic kit: 00													
Dimensions and weights													
A	A,E,N,U	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	A,E,N,U	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	A	mm	2780	2780	3970	3970	3970	5160	5160	6350	6350	7540	7540
	E,U	mm	3970	3970	3970	5160	5160	6350	6350	7540	8730	8730	9650
	N	mm	5160	5160	5160	6350	6350	6350	7540	8730	9650	9650	11110
Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, IA, IB, IC, ID, IE, IF, IG, IH, II, JA, JB, JC, JD, JE, JF, JG, JH, JI, PA, PB, PC, PD, PE, PF, PG, PH, PI													
Dimensions and weights													
A	A,E,N,U	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	A,E,N,U	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	A	mm	3970	3970	3970	3970	3970	5160	5160	6350	6350	7540	7540
	E,U	mm	3970	3970	3970	5160	5160	6350	6350	7540	8730	8730	9650
	N	mm	5160	5160	5160	6350	6350	6350	7540	8730	9650	9650	11110
Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400
Integrated hydronic kit: 00													
Weights													
Empty weight	A	kg	2.690	2.695	3.250	3.425	3.570	4.395	4.605	5.400	5.620	6.355	6.445
	E,U	kg	3.250	3.265	3.275	4.095	4.340	5.035	5.180	5.985	6.760	6.945	7.660
	N	kg	3.880	3.900	3.905	4.655	4.915	5.045	5.760	6.595	7.380	7.565	8.185
Weight functioning	A	kg	2.895	2.900	3.460	3.655	3.805	4.765	4.990	5.840	6.070	6.900	6.995
	E,U	kg	3.460	3.475	3.485	4.385	4.695	5.445	5.590	6.480	7.290	7.530	8.300
	N	kg	4.135	4.160	4.165	4.975	5.290	5.430	6.220	7.125	7.955	8.200	8.855

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.

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