

NRB 0800-3000 F

Air-water chiller with free-cooling

Cooling capacity 56.90 ÷ 233.3 ton



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



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications. Outdoor units with scroll compressors, axial flow fans, micro-channel coil (source side), plate heat exchanger and thermostatic expansion valve (mechanical or electronic, depending on the model). 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 122.0 °F external air temperature depending on size and version. For further details refer to the selection software/technical documentation.

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.

Aluminum 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.

Electronic expansion valve

The units from size 2000 to 3000 have an electronic expansion valve as standard.

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.

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 ad 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.
- **Floating HP control:** available for all models with inverter fans. Together with continuous fan modulation, it optimises unit operation in any working point, enhancing energy efficiency with partial loads.
- **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.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

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.

FL-UL: Flow switch.

MULTICHLILLER_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.

AVX: Spring anti-vibration supports.

ACCESSORIES COMPATIBILITY

Model	Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
AER48SP1	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AERNET	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FL-UL (1)	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MULTICHLILLER_EVO	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PGD1	A,E,N,U	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) Compliant with UL regulation

Antivibration

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
Integrated hydronic kit: 00														
A	AVX1082	AVX1082	AVX1080	AVX1080	AVX1080	AVX1080	AVX1095	AVX1095	AVX1086	AVX1086	AVX1084	AVX1094	AVX1094	AVX1094
E,U	AVX1080	AVX1080	AVX1080	AVX1095	AVX1095	AVX1095	AVX1096	AVX1084	AVX1084	AVX1094	AVX1094	AVX1088	AVX1088	AVX1098
N	AVX1095	AVX1095	AVX1095	AVX1096	AVX1096	AVX1096	AVX1084	AVX1094	AVX1094	AVX1097	AVX1088	AVX1098	AVX1098	AVX1093

230V and 208V power supplies: Available only for sizes from 0800

to 1200.

Air filter

Ver	0800	0900	1000	1100	1200	1400	1600
A	FB2M	FB2M	FB3M	FB3M	FB3M	FB3M	FB2M x 2 (1)
E,U	FB3M	FB3M	FB3M	FB2M x 2 (1)	FB2M x 2 (1)	FB2M x 2 (1)	FB2M + FB3M
N	FB2M x 2 (1)	FB2M x 2 (1)	FB2M x 2 (1)	FB2M + FB3M	FB2M + FB3M	FB2M + FB3M	FB3M x 2 (1)

(1) x_ indicates the quantity to buy

Ver	1800	2000	2200	2400	2600	2800	3000
A	FB2M x 2 (1)	FB2M + FB3M	FB2M + FB3M	FB3M x 2 (1)	FB2M x 2 + FB3M (1)	FB2M x 2 + FB3M (1)	FB2M x 2 + FB3M (1)
E,U	FB3M x 2 (1)	FB3M x 2 (1)	FB2M x 2 + FB3M (1)	FB2M x 2 + FB3M (1)	FB2M + FB3M x 2 (1)	FB2M + FB3M x 2 (1)	FB3M x 3 (1)
N	FB2M x 2 + FB3M (1)	FB2M x 2 + FB3M (1)	FB2M + FB3M x 2 (1)	FB2M + FB3M x 2 (1)	FB3M x 3 (1)	FB3M x 3 (1)	FB2M x 2 + FB3M x 2 (1)

(1) x_ indicates the quantity to buy

Device for peak current reduction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
A,E,N,U	DRE (1)													

(1) Contact the factory

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

Power factor correction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
A,E,N,U	RIF (1)													

(1) Contact the factory

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	2600	2800	3000
A	GP2VN	GP2VN	GP3VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP5VN	GP5VN	GP6V	GP7V	GP7V	GP7V
E,U	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP4VN	GP5VN	GP6V	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN
N	GP4VN	GP4VN	GP4VN	GP5VN	GP5VN	GP5VN	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN	GP10V

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

Units 0800A and 0900A with the optional "storage tank" are 156.3

in long and must have the GP2VNA grids installed.

Air filter

Ver	0800	0900	1000	1100	1200	1400	1600
A	FB1M x 2 (1)	FB1M x 2 (1)	FB1M x 3 (1)	FB1M x 4 (1)			
E,U	FB1M x 3 (1)	FB1M x 3 (1)	FB1M x 3 (1)	FB1M x 4 (1)	FB1M x 4 (1)	FB1M x 4 (1)	FB1M x 5 (1)
N	FB1M x 4 (1)	FB1M x 4 (1)	FB1M x 4 (1)	FB1M x 5 (1)	FB1M x 5 (1)	FB1M x 5 (1)	FB1M x 6 (1)

(1) x_ indicates the quantity to buy

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

FB2M/FB3M: Air filter to protect the micro-channel coils. Formed of a frame and a composite baffle in micro-expanded aluminium mesh, with particularly low pressure drops.

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

FB1M: Air filter to protect the micro-channel coils. Formed of a frame and a composite baffle in micro-expanded aluminium mesh, with particularly low pressure drops.

Ver	1800	2000	2200	2400	2600	2800	3000
A	FB1M x 4 (1)	FB1M x 5 (1)	FB1M x 5 (1)	FB1M x 6 (1)	FB1M x 7 (1)	FB1M x 7 (1)	FB1M x 7 (1)
E,U	FB1M x 6 (1)	FB1M x 6 (1)	FB1M x 7 (1)	FB1M x 7 (1)	FB1M x 8 (1)	FB1M x 8 (1)	FB1M x 9 (1)
N	FB1M x 7 (1)	FB1M x 7 (1)	FB1M x 8 (1)	FB1M x 8 (1)	FB1M x 9 (1)	FB1M x 9 (1)	FB1M x 10 (1)

(1) x _ indicates the quantity to buy

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

CONFIGURATOR

Field	Description
1,2,3	NRB
	Size
4,5,6,7	0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000
8	Operating field
	◦ Standard mechanic thermostatic valve (1)
X	Electronic thermostatic expansion valve (2)
Y	Low temperature mechanic thermostatic valve (3)
Z	Low temperature electronic thermostatic valve (3)
9	Model
F	Free-cooling
10	Heat recovery
	◦ Without heat recovery
D	With desuperheater (4)
11	Version
A	High efficiency
E	Silenced high efficiency
N	Silenced very high efficiency
U	Very high efficiency
12	Coils / free-cooling coils
	◦ Alluminium microchannel / Copper - aluminium
O	Painted alluminium microchannel / Copper painted aluminium
R	Copper-copper/Copper-copper
S	Copper-Tinned copper / Copper -Tinned copper
V	Copper-painted aluminium / Copper-painted aluminium
13	Fans
J	Inverter
14	Power supply
6	230V ±10% ~3 / 60Hz with thermomagnetic switches (5)
7	460V ±10% ~3 / 60Hz with thermomagnetic switches
8	575V ±10% ~3 / 60Hz with thermomagnetic switches
9	208V ±10% ~3 / 60Hz with thermomagnetic switches (5)
15,16	Integrated hydronic kit
	Without hydronic kit
00	Without hydronic kit
	Kit with n° 1 pump
PA	Pump A (6)
PB	Pump B (6)
PC	Pump C (6)
PD	Pump D (6)
PE	Pump E (6)
PF	Pump F (6)
PG	Pump G (6)

Field	Description
PH	Pump H (6)
PI	Pump I (6)
PJ	Pump J (6)
	Pump n° 1 pump + stand-by pump
DA	Pump A + stand-by pump (6)
DB	Pump B + stand-by pump (6)
DC	Pump C + stand-by pump (6)
DD	Pump D + stand-by pump (6)
DE	Pump E + stand-by pump (6)
DF	Pump F + stand-by pump (6)
DG	Pump G + stand-by pump (6)
DH	Pump H + stand-by pump (6)
DI	Pump I + stand-by pump (6)
DJ	Pump J + stand-by pump (6)
	Kit with storage tank and n° 1 pump
AA	Storage tank and pump A (6)
AB	Storage tank and pump B (6)
AC	Storage tank and pump C (6)
AD	Storage tank and pump D (6)
AE	Storage tank and pump E (6)
AF	Storage tank and pump F (6)
AG	Storage tank and pump G (6)
AH	Storage tank and pump H (6)
AI	Storage tank and pump I (6)
AJ	Storage tank and pump J (6)
	Kit with storage tank and n° 1 pump + stand-by pump
BA	Storage tank with pump A + stand-by pump (6)
BB	Storage tank with pump B + stand-by pump (6)
BC	Storage tank with pump C + stand-by pump (6)
BD	Storage tank with pump D + stand-by pump (6)
BE	Storage tank with pump E + stand-by pump (6)
BF	Storage tank with pump F + stand-by pump (6)
BG	Storage tank with pump G + stand-by pump (6)
BH	Storage tank with pump H + stand-by pump (6)
BI	Storage tank with pump I + stand-by pump (6)
BJ	Storage tank with pump J + stand-by pump (6)

(1) Water produced up to 39.2 °F.

(2) Processed water temperature up to 39.2 °F. The standard electronic expansion valve with a size from 2000 to 3000.

(3) Processed water temperature from 39.2 °F to 14.0 °F

(4) During operation, a water temperature no lower than 95° F must always be guaranteed on the heat exchanger inlet. The option is not compatible with application Y and Z.

(5) Available only for size from 0800 to 1200.

(6) For the availability of the pumps in the different configurations, refer to the Magellano selection program or the technical documentation.

PERFORMANCE SPECIFICATIONS

NRB - A

Size	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
Cooling performance chiller operation (1)														
Cooling capacity	ton	56.90	64.10	75.35	84.21	91.90	106.7	120.2	133.6	150.5	163.6	180.8	199.1	211.3
Input power	kW	67.92	79.45	88.37	100.4	112.7	131.8	146.3	167.8	185.4	204.9	219.5	238.5	258.7
Cooling total input current	A	108.0	118.0	127.0	143.0	160.0	185.0	206.0	235.0	260.0	287.0	309.0	336.0	363.0
EER	BTU/(Wh)	10.05	9.681	10.23	10.07	9.788	9.714	9.859	9.555	9.741	9.583	9.880	10.02	9.802
IPLV	BTU/(Wh)	16.00	15.42	16.31	16.04	15.59	15.49	15.70	15.22	15.53	15.66	15.76	16.00	15.66
Water flow rate system side	gpm	136.1	153.3	180.3	201.5	219.9	255.2	287.6	319.7	360.1	391.4	432.5	476.3	505.5
Pressure drop system side	ftH ₂ O	12.0	13.4	18.4	20.4	24.1	29.4	17.4	19.1	24.1	26.8	32.8	19.1	21.4
Cooling performances with free-cooling (2)														
Cooling capacity	ton	37.5	38.7	54.2	56.1	57.4	58.9	76.1	78.0	95.2	97.1	114.3	131.3	133.4
Input power	kW	9.6	9.6	14.5	14.5	14.5	14.5	19.3	19.3	24.1	24.1	28.9	33.7	33.7
Free cooling total input current	A	15.0	14.0	21.0	21.0	21.0	20.0	27.0	27.0	34.0	34.0	41.0	48.0	47.0
EER	BTU/(Wh)	46.72	48.14	44.96	46.54	47.63	48.90	47.41	48.57	47.43	48.36	47.44	46.72	47.46
Water flow rate system side	gpm	136.1	153.3	180.3	201.5	219.9	255.2	287.6	319.7	360.1	391.4	432.5	476.3	505.5
Pressure drop system side	ftH ₂ O	26.1	30.4	32.5	37.1	44.2	58.9	34.1	39.1	43.5	49.2	55.5	35.8	40.1

(1) Reference conditions: AHRI std 550/590 I-P; Service side water 54.01°F / 44.01°F; Outside air 95°F

(2) System side water heat exchanger 54.01 °F / * °F; External air 35.6 °F

NRB - E

Size	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
Cooling performance chiller operation (1)														
Cooling capacity	ton	57.08	63.73	71.03	82.28	90.19	100.6	117.2	133.0	145.3	161.9	173.1	189.2	199.8
Input power	kW	62.70	74.18	85.95	93.94	107.2	127.5	141.0	157.1	179.7	194.8	215.1	230.6	253.5
Cooling total input current	A	99.0	110.0	120.0	132.0	149.0	175.0	194.0	217.0	246.0	268.0	295.0	317.0	346.0
EER	BTU/(Wh)	10.93	10.31	9.917	10.51	10.10	9.467	9.979	10.16	9.702	9.973	9.656	9.847	9.461
IPLV	BTU/(Wh)	17.40	16.41	15.80	16.75	16.07	15.08	15.90	16.17	15.46	16.28	15.42	15.73	15.12
Water flow rate system side	gpm	136.6	152.5	169.9	196.8	215.8	240.7	280.5	318.1	347.6	387.3	414.1	452.6	478.1
Pressure drop system side	ftH ₂ O	10.7	13.0	14.4	19.7	21.7	27.1	14.7	19.1	21.1	22.1	25.1	17.1	19.1
Cooling performances with free-cooling (2)														
Cooling capacity	ton	37.3	38.5	39.6	50.9	52.1	53.4	65.8	78.0	79.5	91.8	93.1	105.4	106.6
Input power	kW	3.8	3.8	3.8	5.0	5.0	5.0	6.3	7.5	7.5	8.8	8.8	10.0	10.0
Free cooling total input current	A	6.0	5.6	5.2	7.1	7.0	6.9	8.6	10.0	10.0	12.0	12.0	14.0	15.0
EER	BTU/(Wh)	119.0	122.9	126.1	121.8	124.7	127.9	125.8	124.3	126.7	125.5	127.2	126.1	127.5
Water flow rate system side	gpm	136.6	152.5	169.9	196.8	215.8	240.7	280.5	318.1	347.6	387.3	414.1	452.6	478.1
Pressure drop system side	ftH ₂ O	18.7	23.4	26.8	32.1	36.1	44.8	26.8	31.8	36.1	37.8	43.2	30.4	33.8

(1) Reference conditions: AHRI std 550/590 I-P; Service side water 54.01°F / 44.01°F; Outside air 95°F

(2) System side water heat exchanger 54.01 °F / * °F; External air 35.6 °F

NRB - U

Size	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
Cooling performance chiller operation (1)														
Cooling capacity	ton	60.21	67.77	76.17	87.19	96.23	108.6	125.4	141.4	156.0	173.2	186.4	202.6	215.3
Input power	kW	68.63	78.50	88.60	100.7	112.0	128.8	145.7	165.4	184.9	202.3	218.6	238.0	257.4
Cooling total input current	A	110.0	119.0	128.0	145.0	161.0	183.0	207.0	235.0	261.0	287.0	310.0	337.0	363.0
EER	BTU/(Wh)	10.53	10.36	10.32	10.39	10.31	10.12	10.33	10.26	10.12	10.28	10.23	10.21	10.04
IPLV	BTU/(Wh)	16.82	16.51	16.45	16.55	16.45	16.11	16.45	16.34	16.17	16.79	16.34	16.31	16.04
Water flow rate system side	gpm	144.0	162.1	182.2	208.6	230.2	259.7	300.1	338.4	373.2	414.5	445.9	484.6	515.1
Pressure drop system side	ftH ₂ O	11.7	15.1	16.7	22.1	24.8	31.8	16.7	21.4	24.4	25.4	29.1	19.7	22.4
Cooling performances with free-cooling (2)														
Cooling capacity	ton	49.7	52.1	54.4	68.5	71.1	74.0	90.3	105.9	109.6	125.7	128.8	144.8	147.7
Input power	kW	14.5	14.5	14.5	19.3	19.3	24.1	28.9	28.9	33.7	33.7	38.6	38.6	43.4
Free cooling total input current	A	23.0	22.0	21.0	28.0	28.0	27.0	34.0	41.0	41.0	48.0	48.0	55.0	54.0
EER	BTU/(Wh)	41.23	43.27	45.12	42.67	44.29	46.09	44.94	43.97	45.47	44.73	45.82	45.08	45.97
Water flow rate system side	gpm	144.0	162.1	182.2	208.6	230.2	259.7	300.1	338.4	373.2	414.5	445.9	484.6	515.1
Pressure drop system side	ftH ₂ O	21.1	26.4	30.8	36.1	41.1	52.2	30.4	35.8	41.8	43.5	50.2	34.8	39.1

(1) Reference conditions: AHRI std 550/590 I-P; Service side water 54.01°F / 44.01°F; Outside air 95°F

(2) System side water heat exchanger 54.01 °F / * °F; External air 35.6 °F

NRB - N

Size	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
Cooling performance chiller operation (1)															
Cooling capacity	ton	59.06	66.41	74.56	84.85	93.50	105.1	121.1	136.2	149.6	165.9	177.9	193.4	204.8	222.0
Input power	kW	60.91	71.13	81.56	91.21	103.2	121.3	136.0	153.2	174.2	189.8	208.5	225.0	246.5	263.4
Cooling total input current	A	98.0	107.0	116.0	130.0	146.0	169.0	190.0	213.0	241.0	263.0	289.0	312.0	340.0	364.0
EER	BTU/(Wh)	11.64	11.21	10.97	11.16	10.88	10.40	10.68	10.67	10.30	10.49	10.24	10.31	9.971	10.11
IPLV	BTU/(Wh)	18.53	17.85	17.47	17.78	17.33	16.58	17.03	16.99	16.41	17.13	16.34	16.48	15.93	16.14
Water flow rate system side	gpm	141.3	158.9	178.4	203.0	223.7	251.5	289.7	325.9	357.8	396.8	425.6	462.6	490.0	531.0
Pressure drop system side	ftH ₂ O	11.4	14.7	16.1	21.1	23.4	29.8	15.7	20.1	22.4	23.1	26.8	18.1	20.1	22.4
Cooling performances with free-cooling (2)															
Cooling capacity	ton	45.4	47.5	49.5	59.9	61.9	64.0	76.0	87.7	90.1	102.1	104.0	116.0	117.6	129.9
Input power	kW	5.0	5.0	5.0	6.3	6.3	6.3	7.5	8.8	8.8	10.0	10.0	11.3	11.3	12.5
Free cooling total input current	A	8.1	7.5	7.1	8.9	8.9	8.8	10.0	12.0	12.0	14.0	14.0	16.0	16.0	17.0
EER	BTU/(Wh)	108.7	113.7	118.4	114.5	118.4	122.5	121.1	119.9	123.1	122.1	124.3	123.2	125.0	124.3
Water flow rate system side	gpm	141.3	158.9	178.4	203.0	223.7	251.5	289.7	325.9	357.8	396.8	425.6	462.6	490.0	531.0
Pressure drop system side	ftH ₂ O	18.1	22.7	26.8	32.5	36.8	46.2	26.4	31.8	36.5	38.5	44.2	30.1	33.8	36.8

(1) Reference conditions: AHRI std 550/590 I-P; Service side water 54.01°F / 44.01°F; Outside air 95°F

(2) System side water heat exchanger 54.01 °F /* °F; External air 35.6 °F

PARTIALISATIONS EER

Size	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000		
Partialisations EER																
100 %	A	BTU/W	10.07	9.690	10.24	10.07	9.793	9.725	9.861	9.554	9.725	9.588	9.895	10.03	9.793	9.656
	E	BTU/W	10.92	10.30	9.929	10.51	10.10	9.452	9.963	10.17	9.690	9.963	9.656	9.861	9.452	9.690
	N	BTU/W	11.64	11.19	10.95	11.16	10.88	10.41	10.68	10.68	10.30	10.48	10.24	10.30	9.963	10.10
	U	BTU/W	10.54	10.37	10.30	10.37	10.30	10.10	10.34	10.27	10.13	10.27	10.24	10.20	10.03	10.10
75 %	A	BTU/W	14.13	13.61	14.37	14.16	13.75	13.65	13.85	13.41	13.68	12.66	13.38	13.55	13.24	13.03
	E	BTU/W	15.35	14.47	13.92	14.77	14.19	13.31	14.02	14.26	13.61	13.17	13.07	13.31	12.80	13.10
	N	BTU/W	16.34	15.73	15.42	15.70	15.29	14.60	15.01	14.98	14.47	13.85	13.85	13.96	13.48	13.68
	U	BTU/W	14.84	14.57	14.50	14.60	14.50	14.19	14.50	14.40	14.30	13.58	13.82	13.82	13.58	13.65
50 %	A	BTU/W	17.30	16.65	17.61	17.33	16.86	16.72	16.96	16.45	16.75	17.67	17.30	17.57	17.16	16.89
	E	BTU/W	18.80	17.74	17.06	18.08	17.37	16.28	17.16	17.47	16.69	18.39	16.92	17.27	16.58	16.96
	N	BTU/W	20.03	19.28	18.87	19.21	18.73	17.91	18.39	18.36	17.74	19.35	17.91	18.08	17.47	17.71
	U	BTU/W	18.19	17.85	17.74	17.88	17.74	17.40	17.78	17.64	17.47	18.94	17.91	17.91	17.57	17.71
25 %	A	BTU/W	18.36	17.67	18.66	18.39	17.88	17.74	18.02	17.44	17.78	19.04	18.97	19.24	18.84	18.53
	E	BTU/W	19.96	18.84	18.12	19.18	18.43	17.27	18.22	18.53	17.71	19.82	18.53	18.90	18.15	18.60
	N	BTU/W	21.26	20.44	20.03	20.37	19.86	18.97	19.48	19.48	18.80	20.85	19.65	19.79	19.14	19.42
	U	BTU/W	19.21	18.90	18.84	18.97	18.84	18.46	18.87	18.73	18.49	20.40	19.65	19.62	19.28	19.42

ELECTRIC DATA

Size	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000		
Integrated hydronic kit: 00																
Power supply: 460V	A	A	303.6	355.6	375.4	430.9	447.9	502.8	544.4	659.6	701.8	734.5	692.5	815.5	849.9	884.3
Peak current (LRA)	E,U	A	311.4	363.4	375.4	438.7	455.7	510.6	552.2	675.2	709.6	750.1	700.3	823.3	857.7	899.9
	N	A	319.2	371.2	383.2	446.5	463.5	518.4	560.0	683.0	717.4	757.9	708.1	831.1	865.5	907.7
Minimum circuit amperage (MCA)	A	A	150.0	150.0	175.0	200.0	225.0	250.0	300.0	350.0	400.0	400.0	400.0	450.0	500.0	600.0
	E,U	A	150.0	150.0	175.0	200.0	225.0	250.0	300.0	350.0	400.0	400.0	400.0	450.0	500.0	600.0
Maximum overcurrent permitted by the protection device (MOP)	N	A	150.0	175.0	175.0	200.0	225.0	250.0	300.0	350.0	400.0	400.0	400.0	450.0	500.0	600.0

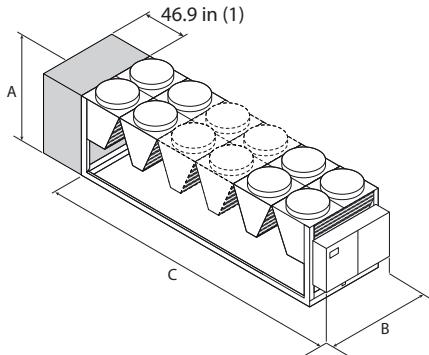
Data calculated without hydronic kit and accessories

GENERAL TECHNICAL DATA

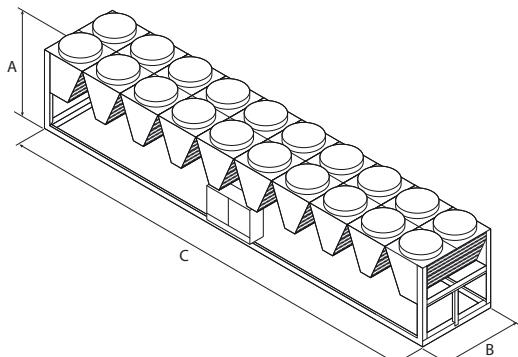
Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
Compressor																
Type	A,E,N,U	type														
Compressor regulation	A,E,N,U	Type														
Number	A,E,N,U	no.														
Circuits	A,E,N,U	no.														
Refrigerant	A,E,N,U	type														
	A	lbs	35.3	35.3	44.1	46.3	46.3	48.5	57.3	61.7	70.5	79.4	83.8	105.8	108.0	
Refrigerant load circuit 1 (1)	E,U	lbs	44.1	44.1	47.4	57.3	55.1	55.1	66.1	79.4	83.8	105.8	110.2	116.8	143.3	
	N	lbs	57.3	57.3	58.4	63.9	63.9	63.9	79.4	79.4	86.0	112.4	116.8	127.9	154.3	
	A	lbs	35.3	35.3	44.1	46.3	46.3	48.5	57.3	61.7	70.5	94.8	83.8	105.8	121.3	
Refrigerant load circuit 2 (1)	E,U	lbs	44.1	44.1	47.4	59.5	61.7	61.7	70.5	86.0	83.8	105.8	110.2	127.9	138.9	143.3
	N	lbs	57.3	57.3	58.4	66.1	68.3	68.3	86.0	86.0	88.2	114.6	127.9	143.3	143.3	154.3
System side heat exchanger																
Type	A,E,N,U	type														
Number	A,E,N,U	no.														
Hydraulic connections																
Connections (in/out)	A,E,N,U	Type														
Sizes (in/out)	A	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	
	E,N,U	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	
Sound data calculated in cooling mode (2)																
	A	dB(A)	87.5	90.1	92.1	93.4	94.4	94.0	93.9	95.8	97.3	96.3	95.5	97.1	97.9	98.8
Sound power level	E	dB(A)	84.0	88.5	90.6	92.4	93.6	93.1	92.6	95.0	96.6	95.6	94.4	96.1	97.4	98.3
	N	dB(A)	84.2	88.5	90.7	92.4	93.6	93.2	92.7	95.1	96.6	95.6	94.4	96.2	97.4	98.4
	U	dB(A)	88.6	90.7	92.1	93.7	94.7	94.3	94.2	96.2	97.4	96.8	95.9	97.3	98.3	99.2
	A	dB(A)	55.4	57.9	59.9	61.2	62.1	61.8	61.5	63.4	64.7	63.8	62.8	64.3	65.1	66.0
Sound pressure level (10 m / 33 ft)	E	dB(A)	51.8	56.2	58.4	60.0	61.2	60.7	60.1	62.4	63.9	62.8	61.6	63.2	64.5	65.3
	N	dB(A)	51.8	56.1	58.3	59.9	61.1	60.6	60.0	62.3	63.8	62.7	61.5	63.1	64.3	65.2
	U	dB(A)	56.4	58.5	59.9	61.3	62.3	61.9	61.7	63.5	64.7	64.0	63.1	64.4	65.4	66.1
(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.																
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2. Sound pressure (cold functioning) measured in free field, 10 m / 33 ft away from the unit external surface (in compliance with UNI EN ISO 3744).																
Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
Power supply: 7																
Inverter fan																
Type	A,E,N,U	type														
Fan motor	A,E,N,U	type														
	A	no.	4	4	6	6	6	8	8	10	10	12	14	14	14	
Number	E,U	no.	6	6	6	8	8	8	10	12	12	14	14	16	18	
	N	no.	8	8	8	10	10	10	12	14	14	16	16	18	20	
	A	cfm	39,680	39,680	59,520	59,520	59,520	79,360	79,360	99,200	99,200	119,040	138,880	138,880	138,880	
Air flow rate	E	cfm	34,114	34,114	34,114	45,485	45,485	45,589	56,857	68,304	68,229	79,600	79,600	90,971	90,971	
	N	cfm	45,485	45,485	45,529	56,857	56,857	56,837	68,229	79,600	79,600	90,971	102,342	102,342	113,714	
	U	cfm	59,520	59,520	59,520	79,360	79,360	79,375	99,200	119,040	119,040	138,880	138,881	158,721	158,721	

DIMENSIONS

NRB 0800-3000 FA-FE-FU
NRB 0800-2800 FN



NRB 3000 FN



(1) Additional module needed to contain the hydronic kit with "accumulation" option in sizes:
NRB 0800FA, 0900FA

Size	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
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Integrated hydronic kit: 00, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ

Dimensions and weights

A	A,E,N,U	in	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
B	A,E,N,U	in	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
C	A	in	109.4	109.4	156.3	156.3	156.3	156.3	203.1	203.1	250.0	250.0	296.9	343.7
	E,U	in	156.3	156.3	156.3	203.1	203.1	203.1	250.0	296.9	343.7	343.7	390.6	390.6
	N	in	203.1	203.1	203.1	250.0	250.0	250.0	296.9	343.7	343.7	390.6	390.6	437.4
														468.5

Integrated hydronic kit: AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ

Dimensions and weights

A	A,E,N,U	in	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
B	A,E,N,U	in	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
C	A	in	156.3	156.3	156.3	156.3	156.3	156.3	203.1	203.1	250.0	250.0	296.9	343.7
	E,U	in	156.3	156.3	156.3	203.1	203.1	203.1	250.0	296.9	343.7	343.7	390.6	390.6
	N	in	203.1	203.1	203.1	250.0	250.0	250.0	296.9	343.7	343.7	390.6	390.6	437.4
														468.5

The units 0800FA, 0900FA with the "storage tank" option, are 156.3 in long.

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

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