

NRB 0800-3600

Air-water chiller

Cooling capacity 217 ÷ 1049 kW

- **Microchannel coils**
- **Night mode**
- **Operation up to 50 °C outdoor air**
- **HP floating: ESEER +7% with inverter fans**



DESCRIPTION

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

They are outdoor units with axial fan scroll compressors, microchannel batteries and plate exchangers.

In the unit with desuperheater, it is also possible to produce free-hot water.

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

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to 50°C external air temperature. Unit can produce chilled water (up to -10°C of water produced in some versions).

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.

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

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.

It is standard in all sizes from 1800 to 3600.

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 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.
- **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. **ESEER up to +7% with inverter fans.**
- **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**

CONFIGURATOR

Field	Description
1,2,3	NRB
4,5,6,7	Size (1) 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600
8	Operating field
	° Standard mechanic thermostatic valve (2)
	X Electronic thermostatic valve (2)
	Y Low temperature mechanic thermostatic valve (3)
	Z Low temperature electronic thermostatic valve (3)
9	Model
	° Cooling only
	C Motocondensing unit (4)
10	Heat recovery
	° Without heat recovery
	D With desuperheater (5)
	T With total recovery (6)
11	Version
	° Standard
	A High efficiency
	E Silenced high efficiency
	L Standard silenced
	N Silenced very high efficiency
	U Very high efficiency
12	Coils
	° Alluminium microchannel
	I Copper-aluminium
	O Painted alluminium microchannel
	R Copper-copper
	S Tinned copper
	V Copper-painted aluminium
13	Fans
	° Standard
	J Inverter (7)
	M Oversized
14	Power supply
	° 400V ~ 3 50Hz with magnet circuit breakers
15,16	Integrated hydronic kit
	Without hydronic kit
	00 Without hydronic kit
	Kit with n° 1 pump (8)
	PA Pump A
	PB Pump B
	PC Pump C
	PD Pump D
	PE Pump E
	PF Pump F
	PG Pump G
	PH Pump H
	PI Pump I
	PJ Pump J

Field	Description
	Pump n° 1 pump + stand-by pump (8)
	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
	DJ Pump J + stand-by pump
	Kit with storage tank and n° 1 pump (8)
	AA Storage tank and pump A
	AB Storage tank and pump B
	AC Storage tank and pump C
	AD Storage tank and pump D
	AE Storage tank and pump E
	AF Storage tank and pump F
	AG Storage tank and pump G
	AH Storage tank and pump H
	AI Storage tank and pump I
	AJ Storage tank and pump J
	Kit with storage tank and n° 1 pump + stand-by pump (8)
	BA Storage tank with pump A + stand-by pump
	BB Storage tank with pump B + stand-by pump
	BC Storage tank with pump C + stand-by pump
	BD Storage tank with pump D + stand-by pump
	BE Storage tank with pump E + stand-by pump
	BF Storage tank with pump F + stand-by pump
	BG Storage tank with pump G + stand-by pump
	BH Storage tank with pump H + stand-by pump
	BI Storage tank with pump I + stand-by pump
	BJ Storage tank with pump J + stand-by pump

(1) Electronic thermostatic as standard from size 1800÷3600.

(2) Water produced from 4 °C ÷ 18 °C

(3) Water produced from 4 °C ÷ -8 °C for ° - L version; -10 °C for the others versions

(4) The motor condensing units "C" are not configurable with option Y/X/Z/T/D

(5) The temperature of the water in the heat exchanger inlet must never drop below 35°C.

(6) All hydronic kit (from PA to BJ) are not compatible for the following sizes and versions with heat recovery "T": 0800 - 0900 - 1000 - 1100 versions °; 0800 - 0900 versions A; 0800 - 0900 versions L. All hydraulic kit with pump / and buffer tank (from AA to BJ) are not compatible for all sizes and versions with heat recovery T

(7) Inverter fans (J) as standard from size 2000 to 3600, version °.

(8) For all configurations including pump J please contact the factory.

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: Flow switch.

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.

AVX: Spring anti-vibration supports.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

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

XLA: The Kit, which consists of resistances for the electric power board and "J" inverter fans, allows the outdoor air temperature operating range to be extended from -10°C to -20°C outdoor air.

ACCESSORIES COMPATIBILITY

Model	Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
AER485P1	°A,E,L,N,U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AERNET	°A,E,L,N,U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
FL	°A,E,L,N,U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER_EVO	°A,E,L,N,U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PGD1	°A,E,L,N,U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Antivibration

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Integrated hydronic kit: 00																		
°	AVX805	AVX805	AVX805	AVX805	AVX808	AVX808	AVX808	AVX810	AVX810	AVX810	AVX809	AVX815	AVX819	AVX819	AVX819	AVX818	AVX818	
A,L	AVX805	AVX805	AVX806	AVX808	AVX808	AVX808	AVX810	AVX810	AVX809	AVX809	AVX863	AVX813	AVX818	AVX818	AVX816	AVX816	AVX816	
E,U	AVX806	AVX806	AVX808	AVX807	AVX807	AVX810	AVX809	AVX863	AVX813	AVX813	AVX816	AVX816	AVX817	AVX820	AVX820	AVX820	AVX820	
N	AVX807	AVX807	AVX807	AVX809	AVX809	AVX809	AVX863	AVX812	AVX812	AVX814	AVX814	AVX817	AVX817	AVX820	AVX821	AVX821	AVX821	
Integrated hydronic kit: AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, BA, BB, BC, BD, BE, BF, BG, BH																		
°	AVX844	AVX844	AVX844	AVX844	AVX844	AVX848	AVX848	AVX845	AVX845	AVX845	AVX847	AVX853	AVX857	AVX859	AVX859	AVX858	AVX858	
A,L	AVX844	AVX844	AVX844	AVX844	AVX844	AVX848	AVX845	AVX845	AVX847	AVX847	AVX849	AVX854	AVX858	AVX858	AVX861	AVX861	AVX861	
E,U	AVX844	AVX844	AVX844	AVX845	AVX845	AVX845	AVX847	AVX849	AVX849	AVX851	AVX851	AVX855	AVX855	AVX856	AVX860	AVX860	AVX860	
N	AVX845	AVX845	AVX847	AVX847	AVX847	AVX849	AVX850	AVX851	AVX852	AVX852	AVX856	AVX856	AVX860	AVX862	AVX862	AVX862	AVX862	
Integrated hydronic kit: BI, BJ																		
°	AVX844	AVX844	AVX844	AVX844	AVX846	AVX848	AVX848	AVX845	AVX845	AVX845	AVX847	AVX853	AVX857	AVX859	AVX859	AVX858	AVX858	
A,L	AVX844	AVX844	AVX846	AVX846	AVX846	AVX848	AVX845	AVX845	AVX847	AVX847	AVX849	AVX854	AVX858	AVX858	AVX861	AVX861	AVX861	
E,U	AVX844	AVX844	AVX846	AVX845	AVX845	AVX845	AVX847	AVX849	AVX849	AVX851	AVX851	AVX855	AVX855	AVX856	AVX860	AVX860	AVX860	
N	AVX845	AVX845	AVX845	AVX847	AVX847	AVX847	AVX849	AVX850	AVX851	AVX852	AVX852	AVX856	AVX856	AVX860	AVX862	AVX862	AVX862	
Integrated hydronic kit: DA, DB, DC																		
°	AVX822	AVX822	AVX822	AVX822	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX828	AVX834	AVX839	AVX839	AVX839	AVX840	AVX840	
A,L	AVX822	AVX822	AVX825	AVX825	AVX825	AVX825	AVX826	AVX826	AVX828	AVX828	AVX830	AVX835	AVX840	AVX840	AVX842	AVX842	AVX842	
E,U	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX828	AVX830	AVX830	AVX832	AVX832	AVX836	AVX836	AVX837	AVX841	AVX841	AVX841	
N	AVX826	AVX826	AVX826	AVX828	AVX828	AVX828	AVX830	AVX831	AVX831	AVX833	AVX833	AVX837	AVX837	AVX841	AVX843	AVX843	AVX843	
Integrated hydronic kit: DD, DE, DF, DG, DH																		
°	AVX823	AVX823	AVX823	AVX823	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX829	AVX834	AVX839	AVX839	AVX839	AVX840	AVX840	
A,L	AVX823	AVX823	AVX825	AVX825	AVX825	AVX825	AVX826	AVX826	AVX829	AVX829	AVX830	AVX835	AVX840	AVX840	AVX842	AVX842	AVX842	
E,U	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX829	AVX830	AVX830	AVX832	AVX832	AVX836	AVX836	AVX838	AVX841	AVX841	AVX841	
N	AVX826	AVX826	AVX826	AVX829	AVX829	AVX829	AVX830	AVX831	AVX831	AVX833	AVX833	AVX838	AVX838	AVX841	AVX843	AVX843	AVX843	
Integrated hydronic kit: DI, DJ																		
°	AVX864	AVX864	AVX829	AVX864	AVX825	AVX825	AVX827	AVX827	AVX827	AVX827	AVX829	AVX834	AVX839	AVX839	AVX839	AVX840	AVX840	
A,L	AVX864	AVX864	AVX825	AVX825	AVX825	AVX825	AVX827	AVX827	AVX829	AVX829	AVX830	AVX835	AVX840	AVX840	AVX842	AVX842	AVX842	
E,U	AVX825	AVX825	AVX825	AVX827	AVX827	AVX827	AVX829	AVX830	AVX830	AVX832	AVX832	AVX836	AVX836	AVX838	AVX841	AVX841	AVX841	
N	AVX827	AVX827	AVX827	AVX829	AVX829	AVX829	AVX830	AVX831	AVX831	AVX833	AVX833	AVX838	AVX838	AVX841	AVX843	AVX843	AVX843	
Integrated hydronic kit: PA, PB, PC, PD, PE, PF, PG, PH																		
°	AVX822	AVX822	AVX822	AVX822	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX828	AVX834	AVX839	AVX839	AVX839	AVX840	AVX840	
A,L	AVX822	AVX822	AVX825	AVX825	AVX825	AVX825	AVX826	AVX826	AVX828	AVX828	AVX830	AVX835	AVX840	AVX840	AVX842	AVX842	AVX842	
E,U	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX828	AVX830	AVX830	AVX832	AVX832	AVX836	AVX836	AVX837	AVX841	AVX841	AVX841	
N	AVX826	AVX826	AVX826	AVX828	AVX828	AVX828	AVX830	AVX831	AVX831	AVX833	AVX833	AVX837	AVX837	AVX841	AVX843	AVX843	AVX843	
Integrated hydronic kit: PI, PJ																		
°	AVX823	AVX823	AVX823	AVX823	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX829	AVX834	AVX839	AVX839	AVX839	AVX840	AVX840	
A,L	AVX823	AVX823	AVX825	AVX825	AVX825	AVX825	AVX826	AVX826	AVX829	AVX829	AVX830	AVX835	AVX840	AVX840	AVX842	AVX842	AVX842	
E,U	AVX825	AVX825	AVX825	AVX826	AVX826	AVX826	AVX828	AVX830	AVX830	AVX832	AVX832	AVX836	AVX836	AVX838	AVX841	AVX841	AVX841	
N	AVX826	AVX826	AVX826	AVX829	AVX829	AVX829	AVX830	AVX831	AVX831	AVX833	AVX833	AVX838	AVX838	AVX841	AVX843	AVX843	AVX843	

Condensation control temperature

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
Fans: °									
°	DCPX120	DCPX120	DCPX120	DCPX120	DCPX121	DCPX121	DCPX121	DCPX122	-
A	DCPX120	DCPX120	DCPX122	DCPX121	DCPX121	DCPX121	DCPX122	DCPX122	DCPX123
E,L,N	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard
U	DCPX121	DCPX121	DCPX122	DCPX122	DCPX122	DCPX122	DCPX123	DCPX124	DCPX124
Fans: M									
°	DCPX130	DCPX130	DCPX130	DCPX130	DCPX131	DCPX131	DCPX131	DCPX132	-
A	DCPX130	DCPX130	DCPX131	DCPX131	DCPX131	DCPX131	DCPX132	DCPX132	DCPX133
E,L,N	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard
U	DCPX131	DCPX131	DCPX131	DCPX132	DCPX132	DCPX132	DCPX133	DCPX134	DCPX134
Fans: M									
°	-	-	-	-	-	-	-	-	-
A	DCPX123	DCPX124	DCPX125	DCPX125	DCPX125	DCPX126	DCPX126	DCPX126	DCPX126
E,L,N	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard
U	DCPX125	DCPX125	DCPX126	DCPX126	DCPX127	DCPX128	DCPX128	DCPX128	DCPX128
Fans: M									
°	-	-	-	-	-	-	-	-	-
A	DCPX133	DCPX134	DCPX135	DCPX135	DCPX135	DCPX136	DCPX136	DCPX136	DCPX136
E,L,N	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard
U	DCPX135	DCPX135	DCPX136	DCPX136	DCPX137	DCPX138	DCPX138	DCPX138	DCPX138

Device for peak current reduction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
°,A,E,L,N,U	DRENRB0800 (1)	DRENRB0900 (1)	DRENRB1000 (1)	DRENRB1100 (1)	DRENRB1200 (1)	DRENRB1400 (1)	DRENRB1600 (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

Power factor correction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
°	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1100	RIFNRB1200	RIFNRB1400	RIFNRB1600	RIFNRB1800	RIFNRB2000
A,L	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1100	RIFNRB1200	RIFNRB1400	RIFNRB1601	RIFNRB1800	RIFNRB2000
E,U	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1101	RIFNRB1201	RIFNRB1401	RIFNRB1601	RIFNRB1800	RIFNRB2000
N	RIFNRB0801	RIFNRB0901	RIFNRB1001	RIFNRB1101	RIFNRB1201	RIFNRB1401	RIFNRB1601	RIFNRB1800	RIFNRB2000

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

Ver	2200	2400	2600	2800	3000	3200	3400	3600
°,A,E,L,N,U	RIFNRB2200	RIFNRB2400	RIFNRB2600	RIFNRB2800	RIFNRB3000	RIFNRB3200	RIFNRB3400	RIFNRB3600

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	3200	3400	3600
°	GP2VN	GP2VN	GP2VN	GP2VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP4VN	GP4VN	GP5VN	GP6V	GP6V	GP6V	GP7V	GP7V
A,L	GP2VN	GP2VN	GP3VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP5VN	GP5VN	GP5VN	GP7V	GP7V	GP7V	GP8V	GP8V	GP8V
E,U	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP4VN	GP5VN	GP6V	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP10V	GP10V	GP10V
N	GP4VN	GP4VN	GP4VN	GP5VN	GP5VN	GP5VN	GP6V	GP7V	GP7V	GP8V	GP4VN	GP9VN	GP9VN	GP10V	GP11V	GP11V	GP11V

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

■ GP2VN becomes GP2VNA in case of configuration with hydronic kit type A and B

Kit for low temperature

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
°	-	-	-	-	-	-	-	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)
A,L	-	-	-	-	-	-	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)
E,U	-	-	-	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)
N	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)	XLA (1)

(1) With the accessory XLA do not use the DCPX
The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

PERFORMANCE SPECIFICATIONS

NRB - °

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Cooling performance 12 °C/7 °C(1)																			
Cooling capacity	kW	221,5	244,5	270,3	299,7	353,1	404,9	439,0	511,2	560,9	598,2	675,8	721,6	786,8	830,6	880,2	945,8	998,2	
Input power	kW	73,3	83,1	94,1	110,3	117,5	135,4	155,1	175,7	194,0	216,6	236,5	256,0	270,3	292,6	314,7	329,4	355,2	
Cooling total input current	A	128,3	143,1	160,0	185,5	201,6	229,9	260,8	299,7	329,8	366,5	404,6	434,0	459,4	498,2	534,6	562,9	606,0	
EER	W/W	3,02	2,94	2,87	2,72	3,00	2,99	2,83	2,91	2,89	2,76	2,86	2,82	2,91	2,84	2,80	2,87	2,81	
Water flow rate system side	l/h	38117	42076	46497	51565	60733	69640	75511	87913	96469	102882	116222	124099	135304	142812	151332	162608	171610	
Pressure drop system side	kPa	46	55	38	45	44	39	46	40	47	53	52	58	60	36	39	46	43	

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

■ Inverter fans (J) as standard from size 2000 to 3600, version °.

NRB - L

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Cooling performance 12 °C/7 °C(1)																			
Cooling capacity	kW	216,9	237,7	272,7	307,7	343,9	391,0	438,4	498,2	555,4	608,2	666,2	727,2	770,0	834,2	886,6	952,6	1004,1	
Input power	kW	73,0	85,9	92,0	107,4	122,7	139,0	151,9	173,3	191,6	213,6	233,8	246,8	270,1	284,5	307,5	323,1	347,9	
Cooling total input current	A	122,8	142,3	154,5	179,0	203,4	231,8	250,8	289,7	318,6	359,2	390,2	412,6	448,8	478,6	512,6	544,6	585,4	
EER	W/W	2,97	2,77	2,97	2,87	2,80	2,81	2,89	2,87	2,90	2,85	2,85	2,95	2,85	2,93	2,88	2,95	2,89	
Water flow rate system side	l/h	37323	40890	46905	52926	59137	67243	75380	85669	95497	104585	114564	125029	132382	143407	152424	163776	172631	
Pressure drop system side	kPa	25	20	27	24	29	23	30	28	37	36	44	28	31	30	34	39	43	

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

NRB - A

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Cooling performance 12 °C/7 °C(1)																			
Cooling capacity	kW	224,1	252,2	283,7	326,1	361,2	411,7	462,2	519,2	576,0	633,3	697,6	757,5	805,8	867,0	928,7	980,8	1026,8	
Input power	kW	70,6	80,9	90,2	104,7	115,3	131,8	147,6	166,3	183,5	203,1	223,3	240,5	256,5	277,0	297,0	314,4	330,3	
Cooling total input current	A	123,9	139,9	158,8	181,8	198,2	224,1	252,4	283,8	316,2	348,7	386,3	417,6	441,6	475,9	513,3	541,6	567,7	
EER	W/W	3,17	3,12	3,15	3,12	3,13	3,12	3,13	3,12	3,14	3,12	3,12	3,15	3,14	3,13	3,13	3,12	3,11	
Water flow rate system side	l/h	38560	43394	48801	56076	62118	70789	79487	89271	99047	108893	119965	130235	138536	149047	159671	168621	176531	
Pressure drop system side	kPa	27	22	30	27	32	25	34	30	39	39	48	30	34	32	38	41	45	

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

NRB - E

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Cooling performance 12 °C/7 °C(1)																			
Cooling capacity	kW	219,2	248,3	275,0	321,4	358,7	403,2	455,0	514,5	569,0	637,2	688,3	741,1	794,3	857,9	911,7	965,1	1019,4	
Input power	kW	69,6	79,4	88,5	102,2	114,9	129,8	144,5	164,7	183,0	203,4	221,4	236,5	255,5	274,7	290,6	310,5	327,8	
Cooling total input current	A	119,5	134,7	148,8	172,1	192,6	215,7	240,1	275,1	306,1	342,6	372,8	397,0	425,9	459,5	487,5	520,6	549,0	
EER	W/W	3,15	3,13	3,11	3,15	3,12	3,11	3,15	3,12	3,11	3,13	3,11	3,13	3,11	3,12	3,14	3,11	3,11	
Water flow rate system side	l/h	37709	42725	47302	55271	61679	69338	78240	88465	97840	109549	118323	127416	136570	147496	156743	165934	175268	
Pressure drop system side	kPa	19	23	20	27	21	27	26	33	33	22	25	30	34	33	38	41	46	

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

NRB - U

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Cooling performance 12 °C/7 °C(1)																			
Cooling capacity	kW	227,6	257,6	286,5	329,6	369,8	414,6	466,9	529,2	594,0	655,1	716,9	765,5	815,3	879,0	940,9	999,7	1049,5	
Input power	kW	68,8	77,7	86,8	99,5	111,7	126,1	140,9	159,5	179,0	197,8	215,3	229,4	248,9	265,7	282,3	302,5	319,5	
Cooling total input current	A	124,3	138,5	152,9	176,0	195,6	218,0	244,0	278,3	311,7	347,7	377,4	401,2	431,5	463,1	493,9	527,9	556,4	
EER	W/W	3,30	3,31	3,30	3,31	3,31	3,28	3,31	3,32	3,32	3,31	3,33	3,34	3,28	3,31	3,33	3,30	3,28	
Water flow rate system side	l/h	39150	44308	49293	56689	63595	71301	80285	91002	102137	112618	123250	131615	140178	151126	161768	171875	180442	
Pressure drop system side	kPa	20	25	21	29	23	28	27	35	36	23	27	32	36	35	40	44	49	

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

NRB - N

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Cooling performance 12 °C/7 °C(1)																			
Cooling capacity	kW	227,7	260,4	284,7	327,7	367,7	412,3	466,1	521,6	579,1	645,7	702,6	749,4	804,7	866,4	926,7	973,5	1029,9	
Input power	kW	68,5	78,9	86,4	98,5	111,9	125,4	140,4	157,8	176,0	194,6	212,9	229,0	246,7	263,5	282,7	301,1	319,3	
Cooling total input current	A	118,2	135,1	146,9	166,9	188,6	209,4	234,0	264,2	295,4	328,9	360,0	385,3	412,5	442,0	475,2	506,2	536,4	
EER	W/W	3,32	3,30	3,30	3,33	3,29	3,29	3,32	3,31	3,29	3,32	3,30	3,27	3,26	3,29	3,28	3,23	3,23	
Water flow rate system side	l/h	39166	44791	48971	56365	63233	70905	80150	89691	99568	111008	120788	128848	138355	148960	159327	167376	177077	
Pressure drop system side	kPa	20	25	21	28	23	28	27	34	34	23	26	30	35	34	39	42	47	

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

ENERGY DATA

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Cooling capacity with low leaving water temp (UE n° 2016/2281)																			
SEER	°	W/W	4,09	4,00	3,98	3,89	4,22	4,25	4,13	4,12	4,17	4,11	4,14	4,14	4,23	4,16	4,13	4,19	4,12
	A	W/W	4,28	4,17	4,27	4,28	4,36	4,37	4,43	4,30	4,25	4,20	4,26	4,37	4,29	4,27	4,27	4,22	4,20
	E	W/W	4,30	4,20	4,26	4,35	4,40	4,35	4,51	4,33	4,23	4,30	4,31	4,38	4,28	4,30	4,34	4,25	4,28
	L	W/W	4,13	3,94	4,15	4,12	4,15	4,15	4,27	4,17	4,14	4,12	4,12	4,28	4,14	4,19	4,18	4,18	4,16
	N	W/W	4,44	4,38	4,44	4,55	4,54	4,56	4,65	4,54	4,43	4,47	4,49	4,49	4,40	4,44	4,43	4,33	4,35
	U	W/W	4,35	4,35	4,38	4,47	4,51	4,50	4,58	4,51	4,42	4,42	4,47	4,56	4,36	4,40	4,47	4,35	4,36
η _{sc}	°	%	160,50	156,90	156,00	152,70	165,70	167,10	162,00	161,90	163,70	161,20	162,50	162,70	166,00	163,20	162,10	164,70	161,80
	A	%	168,30	163,60	167,60	168,30	171,50	165,90	174,00	168,80	167,00	165,10	167,40	171,60	168,70	167,80	167,90	165,90	164,90
	E	%	168,80	165,00	167,40	170,90	173,10	167,00	177,20	170,00	166,20	168,90	169,50	172,20	168,00	168,80	170,40	167,00	168,20
	L	%	162,10	154,60	163,00	161,90	163,00	164,30	167,70	163,60	162,50	161,80	161,90	168,30	162,50	164,60	164,10	164,30	163,50
	N	%	174,60	172,20	174,40	178,80	178,60	170,10	182,90	178,40	174,00	175,90	176,40	176,70	172,90	174,40	174,30	170,10	170,90
	U	%	171,00	170,80	172,10	175,80	177,50	171,00	180,10	177,20	173,70	173,60	175,90	179,20	171,50	173,00	175,60	171,00	171,40

ELECTRIC DATA

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Electric data																			
Maximum current (FLA)	°	A	164,0	181,0	197,0	226,0	262,0	291,0	320,0	367,0	408,0	449,0	497,0	529,0	569,0	610,0	650,0	698,0	739,0
	A,L	A	177,0	193,0	222,0	252,0	281,0	310,0	352,0	393,0	446,0	487,0	547,0	592,0	625,0	666,0	720,0	761,0	802,0
	E,U	A	190,0	206,0	222,0	265,0	294,0	323,0	365,0	424,0	465,0	519,0	560,0	605,0	638,0	692,0	745,0	786,0	827,0
	N	A	203,0	219,0	235,0	277,0	307,0	336,0	383,0	437,0	478,0	531,0	572,0	618,0	651,0	704,0	758,0	799,0	840,0
Peak current (LRA)	°	A	353,0	408,0	424,0	477,0	513,0	625,0	654,0	637,0	678,0	719,0	766,0	799,0	838,0	879,0	920,0	967,0	1008,0
	A,L	A	366,0	421,0	450,0	503,0	532,0	644,0	686,0	662,0	716,0	757,0	816,0	862,0	895,0	936,0	989,0	1030,0	1071,0
	E,U	A	378,0	434,0	450,0	515,0	545,0	657,0	699,0	693,0	734,0	788,0	829,0	874,0	907,0	961,0	1015,0	1056,0	1096,0
	N	A	391,0	446,0	463,0	528,0	557,0	670,0	717,0	706,0	747,0	801,0	842,0	887,0	920,0	974,0	1027,0	1068,0	1109,0

GENERAL TECHNICAL DATA

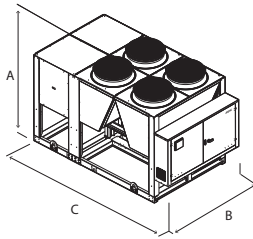
Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Compressor																			
Type	°A,E,L,N,U	type	Scroll																
Compressor regulation	°A,E,L,N,U	Type	On/Off																
Number	°A,E,L,N,U	no.	4	4	4	4	4	4	4	4	4	4	4	5	6	6	6	6	6
Circuits	°A,E,L,N,U	no.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Refrigerant	°A,E,L,N,U	type	R410A																
Refrigerant charge	°	kg	32,0	32,0	32,0	32,0	48,0	48,0	48,0	64,0	64,0	64,0	80,0	80,0	96,0	96,0	96,0	112,0	112,0
	A,L	kg	32,0	32,0	48,0	48,0	48,0	48,0	64,0	64,0	80,0	80,0	96,0	112,0	112,0	112,0	128,0	128,0	128,0
	E,U	kg	48,0	48,0	48,0	64,0	64,0	64,0	80,0	96,0	96,0	112,0	112,0	128,0	128,0	144,0	160,0	160,0	160,0
	N	kg	64,0	64,0	64,0	80,0	80,0	80,0	96,0	112,0	112,0	128,0	128,0	144,0	144,0	160,0	176,0	176,0	176,0
System side heat exchanger																			
Type	°A,E,L,N,U	type	Brazed plate																
Number	°A,E,L,N,U	no.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hydraulic connections																			
Connections (in/out)	°A,E,L,N,U	Type	Grooved joints																
Size (in)	°	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"
	A,L	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"
	E,N,U	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"	5"	5"	5"
Size (out)	°	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"
	A,L	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"	5"
	E,N,U	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"	5"	5"	5"
Fan																			
Type	°A,E,L,N,U	type	Axial																
Fan motor	°	type	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	A,E,L,N,U	type	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off
Number	°	no.	4	4	4	4	6	6	6	6	8	8	8	10	10	12	12	14	14
	A,L	no.	4	4	6	6	6	6	8	8	10	10	12	14	14	16	16	16	16
	E,U	no.	6	6	6	8	8	8	10	12	12	14	14	16	16	18	20	20	20
	N	no.	8	8	8	10	10	10	12	14	14	16	16	18	18	20	22	22	22
Air flow rate	°	m³/h	64000	64000	64000	64000	96000	96000	96000	128000	128000	128000	160000	160000	192000	192000	192000	224000	224000
	A	m³/h	64000	64000	96000	96000	96000	96000	128000	128000	160000	160000	192000	224000	224000	224000	256000	256000	288000
	E	m³/h	69000	69000	69000	92000	92000	92000	115000	138000	138000	161000	161000	184000	184000	207000	230000	230000	230000
	L	m³/h	46000	46000	69000	69000	69000	69000	92000	92000	115000	115000	138000	161000	161000	184000	184000	208000	208000
	N	m³/h	92000	92000	92000	115000	115000	115000	138000	161000	161000	184000	184000	207000	207000	230000	253000	253000	253000
	U	m³/h	96000	96000	96000	128000	128000	128000	160000	192000	192000	224000	224000	256000	256000	288000	320000	320000	320000
Sound data calculated in cooling mode (1)																			
Sound power level	°	dB(A)	88,0	88,0	88,0	88,0	90,0	90,0	90,0	92,0	92,0	93,0	95,0	95,0	96,0	96,0	96,0	96,0	96,0
	A	dB(A)	88,0	88,0	90,0	90,0	90,0	90,0	91,0	92,0	94,0	94,0	96,0	96,0	96,0	96,0	97,0	97,0	97,0
	E	dB(A)	85,0	85,0	85,0	86,0	86,0	86,0	88,0	89,0	89,0	91,0	91,0	92,0	92,0	93,0	93,0	93,0	93,0
	L	dB(A)	83,0	83,0	85,0	85,0	85,0	86,0	86,0	88,0	89,0	90,0	90,0	91,0	91,0	92,0	92,0	93,0	93,0
	N	dB(A)	86,0	86,0	86,0	88,0	88,0	88,0	88,0	90,0	90,0	91,0	92,0	93,0	93,0	93,0	94,0	94,0	94,0
	U	dB(A)	90,0	90,0	90,0	91,0	91,0	91,0	93,0	94,0	95,0	96,0	96,0	97,0	97,0	98,0	98,0	98,0	98,0

(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).

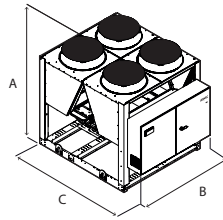
■ Inverter fans (J) as standard from size 2000 to 3600, version °.

DIMENSIONS

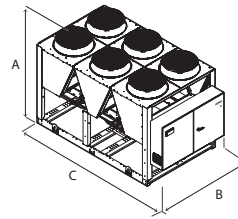
NRB 0800 - 1100 ° (1)
NRB 0800 - 0900 L/A (1)



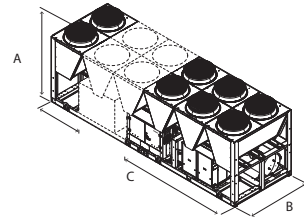
NRB 0800 - 1100 °
NRB 0800 - 0900 L/A



NRB 1200 - 1600 °
NRB 1000 - 1400 L/A
NRB 0800 - 1000 E/U



NRB 1800 - 3600 °
NRB 1600 - 3600 L/A
NRB 1100 - 3600 E/U
NRB 0800-3600 N



1 Versions with storage tank

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Dimensions and weights																			
A	°,A,E,L,N,U	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	°,A,E,L,N,U	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
	°	mm	2780	2780	2780	2780	3970	3970	3970	4760	4760	4760	5950	5950	7140	7140	7140	8330	8330
C	A,L	mm	2780	2780	3970	3970	3970	4760	4760	5950	5950	7140	8330	8330	8330	9520	9520	9520	9520
	E,U	mm	3970	3970	3970	4760	4760	4760	5950	7140	7140	8330	8330	9520	9520	10710	11900	11900	11900
	N	mm	4760	4760	4760	5950	5950	5950	7140	8330	8330	9520	9520	10710	10710	11900	13090	13090	13090
Weight empty	°	kg	2240	2280	2350	2390	2880	2930	2960	3580	3660	3740	4270	4500	5150	5390	5470	6000	6150
	A,L	kg	2260	2320	2800	2870	2910	2970	3490	3630	4110	4230	4670	5510	5760	5910	6390	6520	6600
	E,U	kg	2720	2760	2840	3370	3440	3460	3940	4390	4510	5200	5280	5910	6160	6700	7140	7220	7300
	N	kg	3220	3270	3340	3770	3840	3870	4290	4840	4970	5600	5680	6310	6560	7010	7540	7620	7700

■ Units 0800°, 0900°, 1000°, 1100°; 0800L, 0900L; 0800A, 0900A with the optional "storage tank" are 3970 mm long.

■ The weights are for standard units with plate heat exchangers and no hydronic kit.

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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