NRB 0800-2406 Q

Air-water chiller with shell and tube heat exchanger

Cooling capacity 216,9 ÷ 716,9 kW

- **Microchannel coil**
- **Shell and tube heat exchanger**
- **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 coils and Shell and tube 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 galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard
A High efficiency
E Silenced high efficiency
L Standard silenced
N Silenced very high efficiency
U Very high efficiency

FEATURES

Operating field

Operation at full load up to 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 1805 to 2406.

Option integrated hydronic kit

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

CONTROL PCO[5]

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 or with DCPX. Together with continuous fan modulation, it optimises unit operation in any working point, enhancing energy efficiency with partial loads. **ESEER up to +7% with inverter fans.**
- **Night mode:** only in the **non-silenced versions with the fan to be, inverter or phase-cut or with the DCPX accessory**, a silenced operation profile can be set, which is useful, for example, at night for greater acoustic comfort, but always ensures performance even at peak load hours.

CONFIGURATOR

Field		Description
1,2,3		**NRB**
4,5,6,7		**Size** 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1805, 2006, 2206, 2406
8		**Operating field**
	X	Electronic thermostatic expansion valve (1)
	Y	Low temperature mechanic thermostatic valve (2)
	Z	Low temperature electronic thermostatic valve (2)
	°	Standard mechanic thermostatic valve (1)
9		**Model**
	Q	Cooling only with shell and tube heat exchanger
10		**Heat recovery**
	D	With desuperheater (3)
	T	With total recovery (4)
	°	Without heat recovery
11		**Version**
	°	Standard
	A	High efficiency
	E	Silenced high efficiency
	L	Standard silenced
	N	Silenced very high efficiency
	U	Very high efficiency
12		**Coils**
	I	Copper-aluminium
	O	Coated aluminium microchannel
	R	Copper pipes-copper fins
	V	Copper pieps-Coated aluminium fins
	°	Aluminium microchannel
13		**Fans**
	J	Inverter
	M	Oversized
14		**Power supply**
	°	400V ~ 3 50Hz with magnet circuit breakers
15,16		**Integrated hydronic kit**
		Without hydronic kit (5)
	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
	PG	Pump G
	PH	Pump H
	PI	Pump I
	PJ	Pump J
		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
	DJ	Pump J + stand-by pump

(1) Water produced from 4 °C ÷ 18 °C
(2) Processed water from 4°C to -8°C for the ° - L versions, and from 4°C to -10°C for A - E - U - N versions
(3) The temperature of the water in the heat exchanger inlet must never drop below 35°C.
(4) For compatibility with total recovery see table below.
(5) For compatibility with the hydronic kit, see the table below.

Compatible with total recovery

Version		800	900	1000	1100	1200	1400	1600	1805	2006	2206	2406
standard	°	-	-	-	-	-	-	-	-	-	-	•
Standard silenced	L	-	-	-	-	-	-	-	-	•	•	•
High efficiency	A	-	-	-	-	-	-	-	-	•	•	•
Silenced high efficiency	E	-	-	-	-	-	-	•	•	•	•	•
Very high efficiency	U	-	-	-	-	-	-	•	•	•	•	•
Silenced very high efficiency	N	-	-	-	•	•	•	•	•	•	•	•

Compatibility of models with hydronic units available with a configurator

Version		0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
standard	°	-	-	-	-	•	-	-	•	•	•	•
Standard silenced	L	-	-	•	-	-	-	•	•	•	•	•
High efficiency	A	-	-	•	-	-	-	•	•	•	•	•
Silenced high efficiency	E	•	•	-	•	•	•	•	•	•	•	•
Very high efficiency	U	•	•	-	•	•	•	•	•	•	•	•
Silenced very high efficiency	N	•	•	•	•	•	•	•	•	•	•	•

ACCESSORIES

AER485P1: RS-485 interface for supervising systems with MODBUS protocol. 1 accessory is provided for each unit control board.
AERBAC-ONE: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols, HTTPS protocol for web interface, encrypted communication protocols and access credential management in accordance with the latest standards. One accessory is provided for each unit control board.
AERBACP: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols. 1 accessory is provided for each unit control board.
AERLINK: Aerlink is a WiFi gateway with an RS485 serial port that allows a wide range of Aermec products (heat pumps/chillers/system controllers) equipped with this interface to connect easily and securely to a Wi-Fi network. It works both as an access point (AP access point) and as a client (WiFi Station), it can be connected to a single generator or system centraliser, allowing anyone to easily integrate them into any network. Thanks to the AerApp and AerPlants apps, which can be used on Android and iOS platforms, the remote management of the air conditioning systems developed by Aermec becomes intuitive and simple.
AERNET: The device remotely controls, manages and remotely monitors a chiller/heat pump using a PC, smartphone or table via a Cloud connection. AERNET acts as Master while each connected unit is configured as Slave up to a maximum of 6 control cards. The connection is made via cable and/or USB key. Wi-Fi connectivity is not available. It is also possible to save a log file with all the data from the connected units to your terminal with a simple click for possible post-analysis. With the purchase of the Router, the Customer benefits from a 24-month free period during which he can use the Aernet Service at no additional cost. At the end of this initial period, the Service may be renewed by subscribing to a 1, 2 or 3 year subscription. For further details on costs and renewal methods, please contact our office or consult the technical documentation available on our website. www.aermec.com.
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.
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
KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

Model	Ver	0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
AER485P1	°,A,E,L,N,U	•	•	•	•	•	•	•	•	•	•	•
AERBAC-ONE	°,A,E,L,N,U	•	•	•	•	•	•	•	•	•	•	•
AERBACP	°,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	•	•	•	•	•	•	•	•	•	•	•

Remote panel

Model	Ver	0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
PR4	°,A,E,L,N,U	•	•	•	•	•	•	•	•	•	•	•

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

Condensation control temperature

Ver	0800	0900	1000	1100	1200	1400
Fans: M						
°	DCPX130	DCPX130	DCPX130	DCPX130	DCPX131	DCPX131
A	DCPX130	DCPX130	DCPX131	DCPX131	DCPX131	DCPX131
E, L, N	As standard	As standard	As standard	As standard	As standard	As standard
U	DCPX131	DCPX131	DCPX131	DCPX132	DCPX132	DCPX132

Ver	1600	1805	2006	2206	2406
Fans: M					
°	DCPX131	DCPX155	DCPX155	DCPX155	DCPX156
A	DCPX132	DCPX155	DCPX156	DCPX156	DCPX134
E, L, N	As standard	As standard	As standard	As standard	As standard
U	DCPX133	DCPX134	DCPX134	DCPX135	DCPX135

Antivibration

Ver	0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Integrated hydronic kit: 00											
°	AVX1107	AVX1107	AVX1107	AVX1107	AVX1108	AVX1108	AVX1108	AVX1109	AVX1109	AVX1109	AVX1110
A, L	AVX1107	AVX1107	AVX1108	AVX1108	AVX1108	AVX1108	AVX1109	AVX1109	AVX1110	AVX1110	AVX1111
E, U	AVX1108	AVX1108	AVX1108	AVX1109	AVX1109	AVX1109	AVX1110	AVX1111	AVX1111	AVX1105	AVX1105
N	AVX1109	AVX1109	AVX1109	AVX1110	AVX1110	AVX1110	AVX1111	AVX1105	AVX1105	AVX1102	AVX1102
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ											
°	-	-	-	-	AVX1108	-	-	AVX1109	AVX1109	AVX1109	AVX1110
A, L	-	-	AVX1108	-	-	-	AVX1109	AVX1109	AVX1110	AVX1110	AVX1111
E, U	AVX1108	AVX1108	-	AVX1109	AVX1109	AVX1109	AVX1110	AVX1111	AVX1111	AVX1105	AVX1105
N	AVX1109	AVX1109	AVX1109	AVX1110	AVX1110	AVX1110	AVX1111	AVX1105	AVX1105	AVX1102	AVX1102

Device for peak current reduction

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

Ver	1600	1805	2006	2206	2406
°, A, E, L, N, U	DRENRB1600 (1)	DRENRB1805 (1)	DRENRB2006 (1)	DRENRB2206 (1)	DRENRB2406 (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

Power factor correction

Ver	0800	0900	1000	1100	1200	1400
°, A, L	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1100	RIFNRB1200	RIFNRB1400
E, U	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1101	RIFNRB1201	RIFNRB1401
N	RIFNRB0801	RIFNRB0901	RIFNRB1001	RIFNRB1101	RIFNRB1201	RIFNRB1401

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

Ver	1600	1805	2006	2206	2406
°	RIFNRB1600	RIFNRB1805	RIFNRB2006	RIFNRB2206	RIFNRB2406
A, L	RIFNRB1601	RIFNRB1805	RIFNRB2006	RIFNRB2206	RIFNRB2416
E, N, U	RIFNRB1601	RIFNRB1815	RIFNRB2016	RIFNRB2216	RIFNRB2416

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

Anti-intrusion grid

Ver	0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Integrated hydronic kit: 00											
°	GP2VN	GP2VN	GP2VN	GP2VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP4VN	GP5VN
A, L	GP2VN	GP2VN	GP3VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP5VN	GP5VN	GP5VN
E, U	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP4VN	GP5VN	GP6V	GP6V	GP7V	GP7V
N	GP4VN	GP4VN	GP4VN	GP5VN	GP5VN	GP5VN	GP6V	GP7V	GP7V	GP8V	GP4VN
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ											
°	-	-	-	-	GP3VN	-	-	GP4VN	GP4VN	GP4VN	GP5VN
A, L	-	-	GP3VN	-	-	-	GP4VN	GP4VN	GP5VN	GP5VN	GP5VN
E, U	GP3VN	GP3VN	-	GP4VN	GP4VN	GP4VN	GP5VN	GP6V	GP6V	GP7V	GP7V
N	GP4VN	GP4VN	GP4VN	GP5VN	GP5VN	GP5VN	GP6V	GP7V	GP7V	GP8V	GP4VN

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

Kit for low temperature

Ver	0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
°	-	-	-	-	-	-	-	XLA (1)	XLA (1)	XLA (1)	XLA (1)
A, L	-	-	-	-	-	-	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)
N	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	1805	2006	2206	2406
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
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
Cooling total input current	A	128,30	143,10	160,00	185,50	201,60	229,90	260,80	299,70	329,80	366,50	404,60
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
Water flow rate system side	l/h	38.117	42.077	46.498	51.565	60.733	69.640	75.512	87.913	96.469	102.883	116.222
Pressure drop system side	kPa	46	55	38	45	44	39	46	40	47	53	52

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

NRB - L

Size		0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
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
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
Cooling total input current	A	122,80	142,30	154,50	179,00	203,40	231,80	250,80	289,70	318,60	359,20	390,20
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
Water flow rate system side	l/h	37.323	40.891	46.905	52.926	59.137	67.243	75.381	85.669	95.498	104.586	114.564
Pressure drop system side	kPa	25	20	27	24	29	23	30	28	37	36	44

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

NRB - A

Size		0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
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
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
Cooling total input current	A	123,90	139,90	158,80	181,80	198,20	224,10	252,40	283,80	316,20	348,70	386,30
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
Water flow rate system side	l/h	38.561	43.394	48.802	56.076	62.118	70.789	79.487	89.271	99.048	108.894	119.965
Pressure drop system side	kPa	27	22	30	27	32	25	34	30	39	39	48

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

NRB - E

Size		0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
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
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
Cooling total input current	A	119,50	134,70	148,80	172,10	192,60	215,70	240,10	275,10	306,10	342,60	372,80
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
Water flow rate system side	l/h	37.710	42.726	47.303	55.271	61.679	69.338	78.240	88.465	97.841	109.550	118.323
Pressure drop system side	kPa	19	23	20	27	21	27	26	33	33	22	25

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

NRB - U

Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
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
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
Cooling total input current		A	124,30	138,50	152,90	176,00	195,60	218,00	244,00	278,30	311,70	347,70	377,40
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
Water flow rate system side		l/h	39.151	44.308	49.294	56.689	63.596	71.302	80.286	91.003	102.137	112.618	123.250
Pressure drop system side		kPa	20	25	21	29	23	28	27	35	36	23	27

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

NRB - N

Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
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
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
Cooling total input current		A	118,20	135,10	146,90	166,90	188,60	209,40	234,00	264,20	295,40	328,90	360,00
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
Water flow rate system side		l/h	39.166	44.792	48.972	56.365	63.234	70.905	80.151	89.691	99.569	111.009	120.789
Pressure drop system side		kPa	20	25	21	28	23	28	27	34	34	23	26

(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				0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Fans: J														
SEER - 12/7 (EN14825: 2018)														
SEER	°	W/W		4,44	4,33	4,27	4,25	4,39	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	A	W/W		4,65	4,55	4,66	4,70	4,69	4,73	4,76	4,64	4,64	4,62	4,61
	E	W/W		4,75	4,67	4,63	4,81	4,82	4,76	4,88	4,73	4,67	4,70	4,74
	L	W/W		4,56	4,42	4,50	4,51	4,58	4,59	4,67	4,56	4,56	4,58	4,57
	N	W/W		4,85	4,79	4,83	4,96	4,93	4,97	5,03	4,93	4,82	4,89	4,83
	U	W/W		4,76	4,75	4,71	4,89	4,85	4,86	4,91	4,84	4,77	4,82	4,78
Seasonal efficiency	°	%		174,60	170,10	167,60	167,10	172,70	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	A	%		182,80	179,10	183,40	185,00	184,70	186,20	187,30	182,70	182,40	181,70	181,50
	E	%		187,00	183,70	182,00	189,30	189,60	187,50	192,30	186,20	183,90	184,80	186,40
	L	%		179,20	173,80	177,00	177,50	180,10	180,40	183,90	179,50	179,40	180,10	179,60
	N	%		191,10	188,40	190,30	195,40	194,20	195,90	198,10	194,10	189,90	192,40	190,00
	U	%		187,40	187,10	185,20	192,50	191,00	191,30	193,30	190,70	187,70	189,60	188,10
Water Regulation (2)	°,A,E,L,N,U	type							FW/VO					
SEER - 23/18 (EN14825: 2018)														
SEER	°	W/W		5,28	5,16	5,07	4,96	5,40	5,44	5,18	5,07	5,13	4,77	5,07
	A	W/W		5,50	5,35	5,50	5,51	5,55	5,55	5,63	5,34	5,44	5,30	5,42
	E	W/W		5,62	5,53	5,46	5,70	5,69	5,63	5,77	5,50	5,52	5,48	5,59
	L	W/W		5,34	5,14	5,35	5,33	5,37	5,34	5,47	5,26	5,32	5,20	5,26
	N	W/W		5,92	5,71	5,76	5,91	5,88	5,91	5,99	5,75	5,74	5,71	5,75
	U	W/W		5,65	5,67	5,59	5,82	5,76	5,80	5,83	5,67	5,69	5,61	5,68
Seasonal efficiency	°	%		208,10	203,40	199,80	195,40	212,90	214,50	204,10	199,90	202,10	187,80	199,60
	A	%		217,00	210,90	217,00	217,50	219,10	219,10	222,10	210,50	214,60	209,10	213,60
	E	%		221,90	218,30	215,30	224,90	224,50	222,20	227,70	216,80	217,70	216,00	220,60
	L	%		210,40	202,70	211,00	210,20	211,60	210,40	215,80	207,40	209,70	205,10	207,50
	N	%		229,90	225,30	227,50	233,50	232,10	233,40	236,40	226,80	226,40	225,50	227,10
	U	%		222,80	223,70	220,70	229,90	227,50	228,80	230,20	223,80	224,50	221,50	224,00
Water Regulation (2)	°,A,E,L,N,U	type							FW/FO					
SEPR - (EN 14825: 2018)														
SEPR	°	W/W		5,39	5,22	5,17	5,03	5,36	5,51	5,52	5,58	5,52	5,51	5,51
	A	W/W		5,64	5,29	5,58	5,30	5,55	5,52	5,56	5,56	5,57	5,55	5,55
	E	W/W		5,56	5,22	5,47	5,25	5,52	5,56	5,58	5,54	5,53	5,55	5,55
	L	W/W		5,32	5,05	5,31	5,04	5,18	5,05	5,53	5,53	5,53	5,52	5,54
	N	W/W		5,69	5,55	5,67	5,60	5,64	5,62	5,66	5,57	5,67	5,60	5,64
	U	W/W		5,67	5,54	5,66	5,54	5,68	5,59	5,69	5,55	5,55	5,58	5,72
Water Regulation (2)	°,A,E,L,N,U	type							FW/FO					

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

(2) 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	1805	2006	2206	2406
Fans: M													
SEER - 12/7 (EN14825: 2018)													
SEER	°	W/W	4,23	4,13	4,10	4,11	4,19	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	A	W/W	4,41	4,34	4,39	4,45	4,48	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	E	W/W	4,47	4,40	4,40	4,54	4,54	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	L	W/W	4,31	4,17	4,25	4,27	4,31	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	N	W/W	4,61	4,56	4,58	4,72	4,68	4,72	4,78	4,66	4,58	4,61	4,62
	U	W/W	4,51	4,51	4,51	4,63	4,64	4,65	4,70	4,61	4,56	4,57	4,59
Seasonal efficiency	°	%	166,00	162,30	161,00	161,20	164,70	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	A	%	173,50	170,60	172,40	174,90	176,00	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	E	%	175,60	173,10	173,10	178,70	178,50	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	L	%	169,40	163,60	166,80	167,60	169,20	- (1)	- (1)	- (1)	- (1)	- (1)	- (1)
	N	%	181,30	179,30	180,00	185,70	184,10	185,90	188,20	183,40	180,30	181,50	181,60
	U	%	177,20	177,40	177,20	182,10	182,50	183,10	184,80	181,40	179,20	179,90	180,50
SEER - 23/18 (EN14825: 2018)													
SEER	°	W/W	5,08	4,98	4,92	4,82	5,20	5,26	5,03	4,91	4,97	4,63	4,91
	A	W/W	5,29	5,15	5,25	5,28	5,35	5,37	5,42	5,15	5,22	5,09	5,22
	E	W/W	5,36	5,24	5,28	5,40	5,43	5,37	5,54	5,21	5,22	5,21	5,30
	L	W/W	5,06	4,87	5,07	5,08	5,05	5,10	5,19	5,02	5,02	4,92	4,99
	N	W/W	5,57	5,47	5,50	5,66	5,61	5,65	5,73	5,48	5,48	5,44	5,54
	U	W/W	5,41	5,44	5,41	5,58	5,56	5,60	5,63	5,46	5,49	5,39	5,50
Seasonal efficiency	°	%	200,10	196,00	193,60	189,90	205,10	207,30	198,30	193,30	195,70	182,00	193,50
	A	%	208,40	203,00	206,80	208,00	211,10	211,60	213,60	203,10	205,70	200,60	205,60
	E	%	211,40	206,40	208,30	213,00	214,00	211,80	218,50	205,50	205,70	205,30	208,90
	L	%	199,40	191,90	199,70	200,10	199,10	200,80	204,40	197,70	197,60	193,90	196,40
	N	%	219,70	215,80	216,80	223,40	221,50	223,00	226,20	216,00	216,30	214,60	218,40
	U	%	213,40	214,40	213,30	220,00	219,50	221,00	222,20	215,30	216,40	212,50	216,90
SEPR - (EN 14825: 2018)													
SEPR	°	W/W	5,39	5,22	5,17	5,03	5,36	5,51	5,52	5,58	5,52	5,51	5,51
	A	W/W	5,64	5,29	5,58	5,30	5,55	5,52	5,56	5,56	5,57	5,55	5,55
	E	W/W	5,56	5,22	5,47	5,25	5,52	5,56	5,58	5,54	5,53	5,55	5,55
	L	W/W	5,32	5,05	5,31	5,04	5,18	5,05	5,53	5,53	5,53	5,52	5,54
	N	W/W	5,69	5,55	5,67	5,60	5,64	5,62	5,66	5,57	5,63	5,60	5,64
	U	W/W	5,67	5,54	5,66	5,54	5,68	5,59	5,69	5,55	5,55	5,58	5,72

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

ELECTRIC DATA

Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Electric data													
Maximum current (FLA)	°	A	164,3	180,7	197,0	226,4	262,1	291,1	320,1	371,3	416,0	445,0	480,4
	A,L	A	177,1	193,4	222,5	251,8	281,2	310,2	351,9	396,7	454,2	483,2	530,8
	E,U	A	189,8	206,1	222,5	264,5	293,9	322,9	364,6	428,0	472,8	514,5	543,5
	N	A	202,5	218,8	235,2	277,3	306,6	335,6	383,2	440,7	485,5	527,2	556,2
Peak current (LRA)	°	A	352,9	408,1	424,4	477,1	512,8	625,3	654,3	705,5	750,3	779,3	814,6
	A,L	A	365,6	420,8	449,9	502,5	531,9	644,4	686,1	730,9	788,4	817,4	865,0
	E,U	A	378,3	433,5	449,9	515,3	544,6	657,1	698,8	762,2	807,0	848,7	877,7
	N	A	391,1	446,2	462,6	528,0	557,3	669,8	717,4	774,9	819,7	861,4	890,4

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Fans: J, M													
Compressor													
Type	°,A,E,L,N,U	type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor regulation	°,A,E,L,N,U	Type	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Number	°,A,E,L,N,U	no.	4	4	4	4	4	4	4	5	6	6	6
Circuits	°,A,E,L,N,U	no.	2	2	2	2	2	2	2	2	2	2	2
Refrigerant	°,A,E,L,N,U	type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Total refrigerant charge (1)	°	kg	28,00	29,00	30,00	32,00	41,00	42,00	42,00	55,00	55,00	55,00	65,00
	A,L	kg	30,00	32,00	40,00	44,00	42,00	45,00	49,00	55,00	64,00	65,00	70,00
	E,U	kg	41,00	40,00	43,00	53,00	53,00	53,00	62,00	69,00	75,00	90,00	112,00
	N	kg	50,00	53,00	53,00	59,00	59,00	70,00	84,00	80,00	90,00	124,00	91,00
Potential global heating (GWP)	°,A,E,L,N,U		2088	2088	2088	2088	2088	2088	2088	2088	2088	2088	2088
Equivalent CO_2	°	tCO_2eq	58,46	60,55	62,64	66,82	85,61	87,70	87,70	114,84	114,84	114,84	135,72
	A,L	tCO_2eq	62,64	66,82	83,52	91,87	87,70	93,96	102,31	114,84	133,63	135,72	146,16
	E,U	tCO_2eq	85,61	83,52	89,78	110,66	110,66	110,66	129,46	144,07	156,60	187,92	233,86
	N	tCO_2eq	104,40	110,66	110,66	123,19	123,19	146,16	175,39	167,04	187,92	258,91	190,01

(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	1805	2006	2206	2406
System side heat exchanger													
Type	°,A,E,L,N,U	type	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Number	°,A,E,L,N,U	no.	1	1	1	1	1	1	1	1	1	1	1
Hydraulic connections without hydronic kit													
Connections (in/out)	°,A,E,L,N,U	Type	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints
Sizes (in/out)	°,A,E,L,N,U	Ø	3″	3″	3″	3″	3″	3″	4″	4″	4″	4″	4″
Hydraulic connections with hydronic kit													
Connections (in/out)	°,A,E,L,N,U	Type	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints
Sizes (in/out)	°,A,E,L,N,U	Ø	3″	3″	3″	3″	3″	3″	4″	4″	4″	4″	4″

Water filter not supplied. Installation is mandatory or the guarantee will void.

Fans

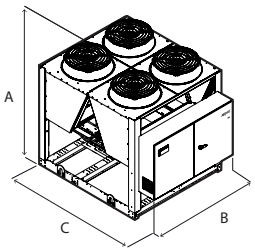
Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Fans: M													
Fan													
Type	°,A,E,L,N,U	type	Axial										
Fan motor	°,A,U	type	Asynchronous										
	E,L,N	type	Asynchronous with phase cut										
Number	°	no.	4	4	4	4	6	6	6	8	8	8	10
	A,L	no.	4	4	6	6	6	6	8	8	10	10	12
	E,U	no.	6	6	6	8	8	8	10	12	12	14	14
	N	no.	8	8	8	10	10	10	12	14	14	16	16
With static pressure													
Air flow rate	°	m^3/h	64.000	64.000	64.000	64.000	96.000	96.000	96.000	128.000	128.000	128.000	160.000
	A	m^3/h	64.000	64.000	96.000	96.000	96.000	96.000	128.000	128.000	160.000	160.000	192.000
	E	m^3/h	69.000	69.000	69.000	92.000	92.000	92.000	115.000	138.000	138.000	161.000	161.000
	L	m^3/h	46.000	46.000	69.000	69.000	69.000	69.000	92.000	92.000	115.000	115.000	138.000
	N	m^3/h	92.000	92.000	92.000	115.000	115.000	115.000	138.000	161.000	161.000	184.000	184.000
	U	m^3/h	96.000	96.000	96.000	128.000	128.000	128.000	160.000	192.000	192.000	224.000	224.000
High static pressure	°,A,U	Pa	50	50	50	50	50	50	50	50	50	50	50
	E,L,N	Pa	120	120	120	120	120	120	120	120	120	120	120
Without Static pressure													
Air flow rate	°	m^3/h	72.000	72.000	72.000	72.000	108.000	108.000	108.000	144.000	144.000	144.000	180.000
	A	m^3/h	72.000	72.000	108.000	108.000	108.000	108.000	144.000	144.000	180.000	180.000	216.000
	E	m^3/h	69.000	69.000	69.000	92.000	92.000	92.000	115.000	138.000	138.000	161.000	161.000
	L	m^3/h	46.000	46.000	69.000	69.000	69.000	69.000	92.000	92.000	115.000	115.000	138.000
	N	m^3/h	92.000	92.000	92.000	115.000	115.000	115.000	138.000	161.000	161.000	184.000	184.000
	U	m^3/h	108.000	108.000	108.000	144.000	144.000	144.000	180.000	216.000	216.000	252.000	252.000
High static pressure	°,A,E,L,N,U	Pa	0	0	0	0	0	0	0	0	0	0	0
With static pressure													
Sound power level	°	dB(A)	87,8	87,8	87,8	87,8	90,0	90,0	90,0	92,0	92,5	93,0	94,7
	A	dB(A)	87,8	87,8	90,0	90,0	90,0	90,0	91,5	92,0	93,7	94,2	95,6
	E	dB(A)	84,8	84,8	84,8	86,3	86,3	86,3	87,5	89,0	89,5	90,8	91,3
	L	dB(A)	82,7	82,7	84,8	84,8	84,8	85,6	86,3	87,7	88,5	89,8	90,5
	N	dB(A)	86,3	86,3	86,3	87,5	87,5	87,5	88,5	89,8	90,3	91,5	92,0
	U	dB(A)	90,0	90,0	90,0	91,5	91,5	91,5	92,7	94,2	94,7	96,0	96,5
Without Static pressure													
Sound power level	°	dB(A)	89,7	89,7	89,7	89,7	91,7	91,7	91,7	93,4	93,2	93,5	94,9
	A	dB(A)	89,7	89,7	91,7	91,7	91,7	91,7	93,1	93,4	94,3	94,6	95,8
	E	dB(A)	84,8	84,8	84,8	86,3	86,3	86,3	87,5	89,0	89,5	90,8	91,3
	L	dB(A)	82,7	82,7	84,8	84,8	84,8	85,6	86,3	87,7	88,5	89,8	90,5
	N	dB(A)	86,3	86,3	86,3	87,5	87,5	87,5	88,5	89,8	90,3	91,5	92,0
	U	dB(A)	92,3	92,3	92,3	93,6	93,6	93,6	94,6	95,7	95,5	96,5	96,8

Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Fans: J													
Fan													
Type	°,A,E,L,N,U	type						Axial					
Fan motor	°,A,E,L,N,U	type						Inverter					
Number	°	no.	4	4	4	4	6	6	6	8	8	8	10
	A,L	no.	4	4	6	6	6	6	8	8	10	10	12
	E,U	no.	6	6	6	8	8	8	10	12	12	14	14
	N	no.	8	8	8	10	10	10	12	14	14	16	16
Inverter fan													
Air flow rate	°	m^3/h	64.000	64.000	64.000	64.000	96.000	96.000	96.000	128.000	128.000	128.000	160.000
	A	m^3/h	64.000	64.000	96.000	96.000	96.000	96.000	128.000	128.000	160.000	160.000	192.000
	E	m^3/h	69.000	69.000	69.000	92.000	92.000	92.000	115.000	138.000	138.000	161.000	161.000
	L	m^3/h	46.000	46.000	69.000	69.000	69.000	69.000	92.000	92.000	115.000	115.000	138.000
	N	m^3/h	92.000	92.000	92.000	115.000	115.000	115.000	138.000	161.000	161.000	184.000	184.000
	U	m^3/h	96.000	96.000	96.000	128.000	128.000	128.000	160.000	192.000	192.000	224.000	224.000
High static pressure	°	Pa	120	120	120	120	120	120	120	75	75	75	75
	A,U	Pa	120	120	120	120	120	120	120	120	120	120	120
	E,L,N	Pa	200	200	200	200	200	200	200	200	200	200	200
Sound data calculated in cooling mode (1)													
Sound power level	°	dB(A)	87,8	87,8	87,8	87,8	90,0	90,0	90,0	92,0	92,5	93,0	94,7
	A	dB(A)	87,8	87,8	90,0	90,0	90,0	90,0	91,5	92,0	93,7	94,2	95,6
	E	dB(A)	84,8	84,8	84,8	86,3	86,3	86,3	87,5	89,0	89,5	90,8	91,3
	L	dB(A)	82,7	82,7	84,8	84,8	84,8	85,6	86,3	87,7	88,5	89,8	90,5
	N	dB(A)	86,3	86,3	86,3	87,5	87,5	87,5	88,5	89,8	90,3	91,5	92,0
	U	dB(A)	90,0	90,0	90,0	91,5	91,5	91,5	92,7	94,2	94,7	96,0	96,5

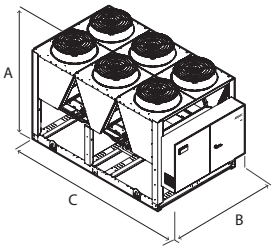
(1) Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS

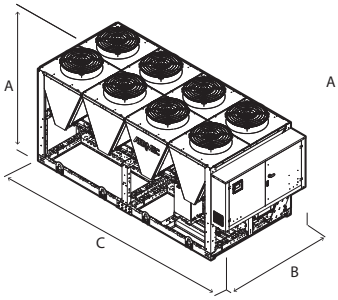
NRB 0800 - 1100 °
NRB 0800 - 0900 L/A



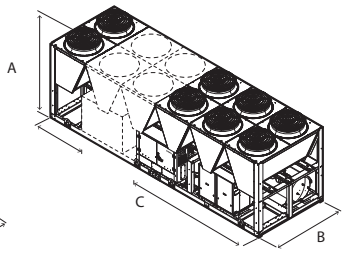
NRB 1200 - 1600 °
NRB 1000 - 1400 L/A
NRB 0800 -1000 E/U



NRB 1805 - 2206 °
NRB 1600 - 1805 L/A
NRB 1200 - 1400 E/U
NRB 0800 - 1000 N



NRB 2406 °
NRB 2006 - 2406 L/A
NRB 1600 - 2406 E/U
NRB 1100 - 2406 N



Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Dimensions and weights without hydronic kit													
A	°,A,E,L,N,U	mm	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450
B	°,A,E,L,N,U	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
C	°	mm	2.780	2.780	2.780	2.780	3.970	3.970	3.970	5.160	5.160	5.160	6.350
	A,L	mm	2.780	2.780	3.970	3.970	3.970	3.970	4.760	5.160	6.350	6.350	7.140
	E,U	mm	3.970	3.970	3.970	4.760	4.760	4.760	5.950	7.140	7.140	8.330	8.330
	N	mm	4.760	4.760	4.760	5.950	5.950	5.950	7.140	8.330	8.330	9.520	9.520
Dimensions and weights with pump/s													
A	°	mm	-	-	-	-	2.450	-	-	2.450	2.450	2.450	2.450
	A,L	mm	-	-	2.450	-	-	-	2.450	2.450	2.450	2.450	2.450
	E,U	mm	2.450	2.450	-	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450
	N	mm	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450
B	°	mm	-	-	-	-	2.200	-	-	2.200	2.200	2.200	2.200
	A,L	mm	-	-	2.200	-	-	-	2.200	2.200	2.200	2.200	2.200
	E,U	mm	2.200	2.200	-	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
	N	mm	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
C	°	mm	-	-	-	-	3.970	-	-	5.160	5.160	5.160	6.350
	A,L	mm	-	-	3.970	-	-	-	4.760	5.160	6.350	6.350	7.140
	E,U	mm	3.970	3.970	-	4.760	4.760	4.760	5.950	7.140	7.140	8.330	8.330
	N	mm	4.760	4.760	4.760	5.950	5.950	5.950	7.140	8.330	8.330	9.520	9.520

Size			0800	0900	1000	1100	1200	1400	1600	1805	2006	2206	2406
Integrated hydronic kit: 00													
Weights													
Empty weight	°	kg	2.390	2.430	2.500	2.540	3.030	3.080	3.110	3.810	3.980	4.020	4.560
	A,L	kg	2.410	2.470	2.950	3.020	3.060	3.120	3.640	3.910	4.480	4.560	4.980
	E,U	kg	2.870	2.910	2.990	3.520	3.590	3.610	4.140	4.690	4.900	5.650	5.690
	N	kg	3.370	3.420	3.490	3.920	3.990	4.020	4.490	5.140	5.360	6.050	6.090

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