

NRB 0800/3000 free cooling

**Air/Water chillers for outdoor installation, with Free-Cooling
Scroll compressors, plate heat exchanger and axial fans
Cooling capacity 56.9 - 233.3 ton**



- **HIGH EFFICIENCY EVEN WITH PARTIAL LOADS**
- **MICRO-CHANNEL COIL**
- **NIGHT-TIME MODE**

Features

NRB Free-Cooling models are chillers designed and built to meet air-conditioning requirements in residential / commercial complexes, or cooling requirements in industrial complexes. They are outdoor units with scroll compressors, axial fans, external copper coils with aluminium fins, and a plate heat exchanger.

They are also fitted with a Free-Cooling coil and are used when the cooling request continues into the winter months, or in any case when the outdoor air temperature is lower than the temperature of the return liquid from the system. In Free Cooling mode (Free Cooling Plus compressors, or just Free Cooling), the fluid is cooled directly by the external air to the point that the compressors can be completely deactivated, thereby ensuring notable electricity savings. A glycol-free version is available for all those applications where the use of glycol is not permitted.

Versions

NRB_FA High-efficiency
NRB_FE High-efficiency with quiet operation
NRB_FU Super high efficiency
NRB_FN Super high efficiency with quiet operation

Operating range: The unit can work at full load with an outdoor temperature of up to 122°F, depending on the size and version. For more details, refer to the technical documentation / selection software.

- Units with 2 refrigerant circuits designed to provide the maximum output at full load, guaranteeing high efficiency even with partial loads and ensuring continuous operation

even if one of the circuits stops working.

- The entire range uses micro-channel coils in aluminium, guaranteeing extremely high efficiency levels. This means less refrigerant is used compared with the traditional copper/aluminium coils.
- An electronic thermostatic valve offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.
- Differential pressure switch supplied as standard.
- Butterfly valves in the hydraulic circuit for switching the water to the Free-Cooling coils.
- An optional, integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, and a range of heads.
- Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures or in Free-Cooling, adapting the air flow rate to the actual system request in order to reduce consumption.
- Microprocessor adjustment, allowing the condensing coils to be disconnected in order to maximise Free-Cooling efficiency even during mixed Free-Cooling and compressor operation.
- **Complete with 7" touchscreen keypad** for easy navigation through the various screens, where you can modify the operating parameters and view the

real time trend of certain values in graphic format.

With Ethernet communication as standard, the same information can also be viewed on a PC by connecting it to the display (via the IP and browser).

- The timer clock can be used to set operating time bands and a second set-point if required.
- The temperature is controlled via proportional integral logic, according to the water outlet temperature.
- **Night-time mode:** this mode offers a quiet operation profile. It's ideal for use during the night for example, as it guarantees less noise whilst still offering optimum efficiency with the highest loads.

Accessories

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

- **PGD1:** Allows you to control the chiller at a distance.
- **FL-UL:** Flow switch.
WARNING: the flow switch and water filter must be fitted. Otherwise, the warranty will be considered null.
- **Air filters (shipped to the package including packaging):** 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.
- **AVX:** Anti-vibration spring supports.

Accessories installed in the factory

- **DRENRB:** Electronic device for reducing the rated starting current.
- **RIFNRB:** Current phase advancer. When connected to the motor in parallel, the input current is reduced (by about 10%).
- **GP:** Anti-intrusion grille.
- **Air filters:** 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.

Compatibility of accessories

NRB-FC	vers.	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000		
AER48SP1		•	•	•	•	•	•	•	•	•	•	•	•	•	•		
AERNET		•	•	•	•	•	•	•	•	•	•	•	•	•	•		
PGD1		•	•	•	•	•	•	•	•	•	•	•	•	•	•		
MULTICHLILLER_EVO		•	•	•	•	•	•	•	•	•	•	•	•	•	•		
FL-UL		•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Air filters	FA	FB2M	FB2M	FB3M	FB3M	FB3M	FB2M (2x)	FB2M (2x)	FB2M + FB3M	FB2M + FB3M	FB3M (2x)	FB2M (2x) + FB3M					
	FE	FB3M	FB3M	FB3M	FB2M (2x)	FB2M (2x)	FB2M (2x)	FB2M + FB3M	FB3M (2x)	FB3M (2x)	FB2M (2x) + FB3M	FB2M + FB3M	FB2M + FB3M	FB2M + FB3M	FB3M (3x)		
	FU	FB3M	FB3M	FB3M	FB2M (2x)	FB2M (2x)	FB2M (2x)	FB2M + FB3M	FB3M (2x)	FB3M (2x)	FB2M (2x) + FB3M	FB2M + FB3M	FB2M + FB3M	FB2M + FB3M	FB3M (3x)		
	FN	FB2M (2x)	FB2M (2x)	FB2M (2x)	FB2M + FB3M	FB2M + FB3M	FB2M + FB3M	FB3M (2x)	FB2M (2x) + FB3M	FB2M (2x) + FB3M	FB2M + FB3M	FB2M + FB3M	FB3M (2x)	FB3M (3x)	FB2M (2x) + FB3M (2x)		
AVX	FA	AVX1082	AVX1082	AVX1080	AVX1080	AVX1080	AVX1080	AVX1080	AVX1095	AVX1095	AVX1096	AVX1086	AVX1086	AVX1084	AVX1094	AVX1094	AVX1094
	FE	AVX1080	AVX1080	AVX1080	AVX1095	AVX1095	AVX1095	AVX1095	AVX1095	AVX1095	AVX1096	AVX1084	AVX1084	AVX1094	AVX1094	AVX1088	AVX1098
	FU	AVX1080	AVX1080	AVX1080	AVX1095	AVX1095	AVX1095	AVX1095	AVX1095	AVX1095	AVX1096	AVX1084	AVX1084	AVX1094	AVX1094	AVX1088	AVX1098
	FN	AVX1095	AVX1095	AVX1095	AVX1096	AVX1096	AVX1096	AVX1096	AVX1094	AVX1094	AVX1094	AVX1097	AVX1097	AVX1088	AVX1098	AVX1098	AVX1093
ACCESSORIES INSTALLED IN THE FACTORY																	
DRENRB		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
RIFNRB		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
GP (1)	FA	2VN	2VN	3VN	3VN	3VN	3VN	4VN	4VN	5VN	5VN	6V	7V	7V	7V	7V	
	FE	3VN	3VN	3VN	4VN	4VN	4VN	5VN	6V	6V	7V	7V	8V	8V	9VN		
	FU	3VN	3VN	3VN	4VN	4VN	4VN	5VN	6V	6V	7V	7V	8V	8V	9VN		
	FN	4VN	4VN	4VN	5VN	5VN	5VN	6V	7V	7V	8V	8V	9VN	9VN	10V		
Air filters	FA	FB1 (2x)	FB1 (2x)	FB1 (3x)	FB1 (3x)	FB1 (3x)	FB1 (3x)	FB1 (4x)	FB1 (4x)	FB1 (5x)	FB1 (5x)	FB1 (6x)	FB1 (7x)	FB1 (7x)	FB1 (7x)		
	FE	FB1 (3x)	FB1 (3x)	FB1 (3x)	FB1 (4x)	FB1 (4x)	FB1 (4x)	FB1 (5x)	FB1 (6x)	FB1 (6x)	FB1 (7x)	FB1 (7x)	FB1 (8x)	FB1 (8x)	FB1 (9x)		
	FU	FB1 (3x)	FB1 (3x)	FB1 (3x)	FB1 (4x)	FB1 (4x)	FB1 (4x)	FB1 (5x)	FB1 (6x)	FB1 (6x)	FB1 (7x)	FB1 (7x)	FB1 (8x)	FB1 (8x)	FB1 (9x)		
	FN	FB1 (4x)	FB1 (4x)	FB1 (4x)	FB1 (5x)	FB1 (5x)	FB1 (5x)	FB1 (6x)	FB1 (7x)	FB1 (7x)	FB1 (8x)	FB1 (8x)	FB1 (9x)	FB1 (9x)	FB1 (10x)		

(1) **2VN** models become **2VNA** for configuration with Ax and Bx hydronic kits

Choice of unit

By suitably combining the numerous options available, it is possible to configure each model in such a way as to meet the most specific system requirements.

Field	Description	
1,2,3	NRB	
4,5,6,7	Size 0800-0900-1000-1100-1200-1400-1600-1800-2000-2200-2400-2600-2800-3000	
8	Field of use <ul style="list-style-type: none"> ◦ Standard (processed water down to +39.2°F) (1) Y Low temperature (processed water from +39.2°F down to 14°F) (1) X Electronic thermostatic valve (processed water down to +39.2°F) Z Electronic thermostatic valve low temperature (processed water from +39.2°F down to 14°F) 	
9	Model F Free Cooling	
10	Heat recovery <ul style="list-style-type: none"> ◦ Without heat recovery D With desuperheater (2) 	
11	Version <ul style="list-style-type: none"> A High efficiency E Silenced high efficiency U Extra high efficiency N Silenced extra high efficiency 	
12	Condensing coils <ul style="list-style-type: none"> ◦ Micro-channel aluminium O Painted micro-channel aluminium R Copper - Copper S Copper - Tin-plated V Painted copper / aluminium 	Free Cooling water coils <ul style="list-style-type: none"> Copper Aluminium Copper Painted aluminium Copper - Copper Copper - Tin-plated Copper Painted aluminium
13	Fans J Inverter	
14	Power supply <ul style="list-style-type: none"> 6 230V-3-60Hz (3) 7 460V-3-60Hz 8 575V-3-60Hz 9 208V-3-60Hz (3) 	
15-16	Integrated hydronic kit <ul style="list-style-type: none"> 00 Without hydronic kit With 1 pump: <ul style="list-style-type: none"> PA Pump A PB Pump B PC Pump C PD Pump D PE Pump E PF Pump F PG Pump G PH Pump H With 2 pumps and accumulation tank: <ul style="list-style-type: none"> AA Pump A and accumulation tank AB Pump B and accumulation tank AC Pump C and accumulation tank AD Pump D and accumulation tank AE Pump E and accumulation tank AF Pump F and accumulation tank AG Pump G and accumulation tank AH Pump H and accumulation tank BA Pump A with reserve pump and accumulation tank BB Pump B with reserve pump and accumulation tank BC Pump C with reserve pump and accumulation tank BD Pump D with reserve pump and accumulation tank BE Pump E with reserve pump and accumulation tank BF Pump F with reserve pump and accumulation tank BG Pump G with reserve pump and accumulation tank BH Pump H with reserve pump and accumulation tank 	

(1) Sizes **2000 - 3000** have an electronic thermostatic valve fitted as standard

(2) **D** heat recovery units not compatible with operating ranges **Y** and **Z** (**NO = YD - ZD**). Warning: on the recovery side, a minimum input temperature of 95.0°F must always be guaranteed on the heat exchanger

(3) Available only for sizes **0800 - 1200**

Technical data

NRB - FA		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
54°F/44°F	Cooling capacity (1)	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	225.0
	Input power (1)	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	279.9
	EER (1)	BTU/W	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	9.647
	IPLV	BTU/W	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	15.39
	Water flow rate (1)	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	538.3
	Pressure drops (1)	ft H ₂ O	12.1	13.3	18.4	20.3	24.1	29.6	17.5	19.0	24.1	26.7	32.9	19.1	21.5	22.9
54°F	Cooling capacity (2)	ton	37.52	38.66	54.16	56.07	57.38	58.91	76.15	78.01	95.22	97.09	114.3	131.3	133.4	135.4
	Input power (2)	kW	9.637	9.637	14.46	14.46	14.46	14.46	19.28	19.28	24.09	24.09	28.91	33.73	33.73	33.73
	EER (2)	BTU/W	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	48.17
	Water flow rate (2)	gpm	136.1	153.3	180	201.5	220	255.2	287.6	319.7	360.1	391.4	432.5	476.3	505.5	538.3
	Pressure drops (2)	ft H ₂ O	26.2	30.4	32.5	37.3	44.2	59.0	34.2	39.1	43.5	49.2	55.7	35.7	40.1	43.6

NRB - FE		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
54°F/44°F	Cooling capacity (1)	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	217.4
	Input power (1)	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	269.3
	EER (1)	BTU/W	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	9.686
	IPLV	BTU/W	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	15.46
	Water flow rate (1)	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	520.1
	Pressure drops (1)	ft H ₂ O	10.6	13.2	14.4	19.7	21.9	27.2	14.6	19.0	21.2	22.1	25.2	17.2	19.2	21.4
54°F	Cooling capacity (2)	ton	37.32	38.53	39.55	50.93	52.15	53.44	65.78	77.96	79.47	91.81	93.09	105.4	106.6	119.1
	Input power (2)	kW	3.763	3.763	3.763	5.017	5.017	5.013	6.272	7.523	7.526	8.780	8.780	10.04	10.04	11.29
	EER (2)	BTU/W	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	126.6
	Water flow rate (2)	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	520.1
	Pressure drops (2)	ft H ₂ O	18.9	23.4	26.7	32.0	36.3	45.0	26.7	31.8	36.3	37.9	43.3	30.3	33.8	36.5

NRB - FU		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
54°F/44°F	Cooling capacity (1)	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	233.3
	Input power (1)	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	277.2
	EER (1)	BTU/W	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	10.10
	IPLV	BTU/W	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	16.14
	Water flow rate (1)	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	558.2
	Pressure drops (1)	ft H ₂ O	11.8	14.9	16.6	22.2	24.9	31.7	16.8	21.5	24.5	25.3	29.3	19.7	22.3	24.6
54°F	Cooling capacity (2)	ton	49.67	52.13	54.36	68.54	71.14	74.03	90.24	105.9	109.6	125.7	128.8	144.8	147.7	164.2
	Input power (2)	kW	14.46	14.46	14.46	19.28	19.28	19.27	24.09	28.91	28.91	33.73	33.73	38.55	38.55	43.37
	EER (2)	BTU/W	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	45.43
	Water flow rate (2)	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	558.2
	Pressure drops (2)	ft H ₂ O	20.9	26.4	30.9	36.2	41.2	52.2	30.5	35.9	41.7	43.3	50.0	34.7	39.1	42.0

NRB - FN		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
54°F/44°F	Cooling capacity (1)	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 (1)	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
	EER (1)	BTU/W	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/W	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 (1)	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 drops (1)	ft H ₂ O	11.5	14.6	16.2	21.0	23.5	29.7	15.7	19.9	22.5	23.2	26.7	18.0	20.2	22.3
54°F	Cooling capacity (2)	ton	45.45	47.52	49.47	59.87	61.87	64.03	75.98	87.70	90.05	102.1	104.0	115.9	117.6	129.9
	Input power (2)	kW	5.017	5.017	5.015	6.272	6.272	6.272	7.526	8.780	8.780	10.04	10.04	11.29	11.29	12.54
	EER (2)	BTU/W	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 (2)	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 drops (2)	ft H ₂ O	18.1	22.9	26.6	32.4	36.7	46.3	26.5	31.8	36.5	38.3	44.1	30.3	33.9	36.8

Data

(1) Water evaporator 54°F/44°F, Outside air 95°F; 0% Free-cooling

(2) Evaporator water 54°F; Outside air 35.6°F

Technical data

NRB-FC		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
ELECTRICAL DATA															
208V-3-60HZ - FAN J															
Total input current (2)	FA	A	268	295	317	358	400	-	-	-	-	-	-	-	-
	FE	A	249	276	304	333	378	-	-	-	-	-	-	-	-
	FU	A	273	295	317	361	400	-	-	-	-	-	-	-	-
	FN	A	244	267	291	325	366	-	-	-	-	-	-	-	-
LRA	FA	A	605	780	816	929	956	-	-	-	-	-	-	-	-
	FE	A	620	795	816	944	971	-	-	-	-	-	-	-	-
	FU	A	620	795	816	944	971	-	-	-	-	-	-	-	-
	FN	A	635	810	831	959	986	-	-	-	-	-	-	-	-
MCA	FA	A	272	313	364	389	414	-	-	-	-	-	-	-	-
	FE	A	287	328	364	404	429	-	-	-	-	-	-	-	-
	FU	A	287	328	364	404	429	-	-	-	-	-	-	-	-
	FN	A	302	343	379	419	444	-	-	-	-	-	-	-	-
MOP	FA	A	328	387	438	475	499	-	-	-	-	-	-	-	-
	FE	A	343	402	438	490	514	-	-	-	-	-	-	-	-
	FU	A	343	402	438	490	514	-	-	-	-	-	-	-	-
	FN	A	358	417	453	505	529	-	-	-	-	-	-	-	-
Recommended fuse	FA	A	300	350	400	450	450	-	-	-	-	-	-	-	-
	FE	A	300	400	400	450	500	-	-	-	-	-	-	-	-
	FU	A	300	400	400	450	500	-	-	-	-	-	-	-	-
	FN	A	350	400	450	500	500	-	-	-	-	-	-	-	-
230V-3-60HZ - FAN J															
Total input current (2)	FA	A	243	268	287	324	362	-	-	-	-	-	-	-	-
	FE	A	225	250	275	302	342	-	-	-	-	-	-	-	-
	FU	A	247	267	287	327	362	-	-	-	-	-	-	-	-
	FN	A	221	242	263	294	332	-	-	-	-	-	-	-	-
LRA	FA	A	578	752	786	938	1,042	-	-	-	-	-	-	-	-
	FE	A	593	767	786	953	1,057	-	-	-	-	-	-	-	-
	FU	A	593	767	786	953	1,057	-	-	-	-	-	-	-	-
	FN	A	608	782	801	968	1,072	-	-	-	-	-	-	-	-
MCA	FA	A	267	308	359	385	407	-	-	-	-	-	-	-	-
	FE	A	282	323	359	400	422	-	-	-	-	-	-	-	-
	FU	A	282	323	359	400	422	-	-	-	-	-	-	-	-
	FN	A	297	338	374	415	437	-	-	-	-	-	-	-	-
MOP	FA	A	323	382	433	470	493	-	-	-	-	-	-	-	-
	FE	A	338	397	433	485	508	-	-	-	-	-	-	-	-
	FU	A	338	397	433	485	508	-	-	-	-	-	-	-	-
	FN	A	353	412	448	500	523	-	-	-	-	-	-	-	-
Recommended fuse	FA	A	300	350	400	450	450	-	-	-	-	-	-	-	-
	FE	A	300	350	400	450	500	-	-	-	-	-	-	-	-
	FU	A	300	350	400	450	500	-	-	-	-	-	-	-	-
	FN	A	350	400	400	450	500	-	-	-	-	-	-	-	-

(2) Unit with standard configuration and operation, without integrated hydronic kit

Technical data

NRB-FC		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
460V-3-60HZ - FAN J																
Total input current (2)	FA	A	111	122	132	149	166	192	214	244	270	298	321	349	377	407
	FE	A	102	114	125	137	156	184	203	226	257	280	310	332	363	386
	FU	A	114	123	132	151	167	190	215	243	270	297	322	350	377	405
	FN	A	101	110	120	134	151	176	197	221	250	274	301	325	354	378
LRA	FA	A	291	341	357	413	432	484	521	632	666	699	655	774	800	826
	FE	A	299	349	357	421	440	492	529	648	674	715	663	782	808	842
	FU	A	299	349	357	421	440	492	529	648	674	715	663	782	808	842
	FN	A	307	357	365	429	448	500	537	656	682	723	671	790	816	849
MCA	FA	A	129	139	155	181	204	233	266	307	352	370	390	440	477	514
	FE	A	137	147	155	189	212	240	273	323	360	385	398	447	485	529
	FU	A	137	147	155	189	212	240	273	323	360	385	398	447	485	529
	FN	A	145	154	163	196	220	248	281	331	368	393	406	455	492	537
MOP	FA	A	156	169	185	223	246	287	320	380	425	443	445	513	550	587
	FE	A	164	177	185	231	254	295	328	396	433	458	452	520	558	602
	FU	A	164	177	185	231	254	295	328	396	433	458	452	520	558	602
	FN	A	171	185	193	238	262	303	336	404	441	466	460	528	565	610
Recommended fuse	FA	A	150	150	175	200	225	250	300	350	400	400	400	500	500	500
	FE	A	150	150	175	225	225	250	300	350	400	450	400	500	500	500
	FU	A	150	150	175	225	225	250	300	350	400	450	400	500	500	500
	FN	A	150	175	175	225	250	250	300	350	400	450	450	500	500	600
575V-3-60HZ - FAN J																
Total input current (2)	FA	A	86	95	102	115	128	149	166	189	209	231	249	270	292	315
	FE	A	79	88	97	106	120	142	157	174	199	216	239	256	280	298
	FU	A	88	95	102	117	129	147	167	189	210	231	249	271	292	314
	FN	A	78	85	93	104	116	136	152	171	193	211	232	250	273	292
LRA	FA	A	219	270	283	348	362	374	403	549	575	600	506	658	679	699
	FE	A	225	276	283	354	368	380	409	561	581	613	512	665	685	711
	FU	A	225	276	283	354	368	380	409	561	581	613	512	665	685	711
	FN	A	231	282	289	360	374	387	415	567	587	619	519	671	691	717
MCA	FA	A	115	117	125	148	169	202	237	243	254	298	348	360	365	370
	FE	A	121	123	125	154	175	208	243	255	260	311	354	366	371	383
	FU	A	121	123	125	154	175	208	243	255	260	311	354	366	371	383
	FN	A	128	130	131	160	181	214	249	261	266	317	361	373	378	389
MOP	FA	A	139	142	150	183	203	251	286	294	306	350	398	412	417	422
	FE	A	145	148	150	189	210	257	293	307	312	363	404	418	423	434
	FU	A	145	148	150	189	210	257	293	307	312	363	404	418	423	434
	FN	A	151	154	156	195	216	263	299	313	318	369	410	424	429	441
Recommended fuse	FA	A	125	125	125	175	175	225	250	250	250	300	350	400	400	400
	FE	A	125	125	125	175	200	250	250	300	300	350	350	400	400	400
	FU	A	125	125	125	175	200	250	250	300	300	350	350	400	400	400
	FN	A	125	125	150	175	200	250	250	300	300	300	400	400	400	400

(2) Unit with standard configuration and operation, without integrated hydronic kit

Technical data

NRB-FC		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
SCROLL COMPRESSORS																
Compressors / Circuit	All	nr.	4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2	5/2	6/2	6/2	6/2	6/2	
Refrigerant gas	All	Type								R410A						
SYSTEM SIDE PLATE HEAT EXCHANGER																
Heat exchanger		no.								1						
	FA	Ø	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	
Water connections (IN/OUT)	FE	Ø	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"	
	FU	Ø	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"	
	FN	Ø	3"	3"	3"	3"	3"	3"	3"	3"	5"	5"	5"	5"	5"	
STANDARD AXIAL FANS																
FANS J 208V																
	Fans	FA	nr.	4	4	6	6	6	-	-	-	-	-	-	-	
		FE	nr.	6	6	6	8	8	-	-	-	-	-	-	-	
		FU	nr.	6	6	6	8	8	-	-	-	-	-	-	-	
		FN	nr.	8	8	8	10	10	-	-	-	-	-	-	-	
	Air flow rate	FA	cfm	39,680	39,680	59,520	59,520	59,520	-	-	-	-	-	-	-	
		FE	cfm	34,114	34,114	34,114	45,486	45,486	-	-	-	-	-	-	-	
		FU	cfm	59,520	59,520	59,520	79,360	79,360	-	-	-	-	-	-	-	
		FN	cfm	45,486	45,486	45,529	56,857	56,857	-	-	-	-	-	-	-	
FANS J 230V																
	Fans	FA	nr.	4	4	6	6	6	-	-	-	-	-	-	-	
		FE	nr.	6	6	6	8	8	-	-	-	-	-	-	-	
		FU	nr.	6	6	6	8	8	-	-	-	-	-	-	-	
		FN	nr.	8	8	8	10	10	-	-	-	-	-	-	-	
	Air flow rate	FA	cfm	39,680	39,680	59,520	59,520	59,520	-	-	-	-	-	-	-	
		FE	cfm	34,114	34,114	34,114	45,486	45,486	-	-	-	-	-	-	-	
		FU	cfm	59,520	59,520	59,520	79,360	79,360	-	-	-	-	-	-	-	
		FN	cfm	45,486	45,486	45,529	56,857	56,857	-	-	-	-	-	-	-	
FANS J 460V																
	Fans	FA	nr.	4	4	6	6	6	6	8	8	10	10	12	14	
		FE	nr.	6	6	6	8	8	8	10	12	12	14	14	16	
		FU	nr.	6	6	6	8	8	8	10	12	12	14	14	16	
		FN	nr.	8	8	8	10	10	10	12	14	14	16	16	18	
	Air flow rate	FA	cfm	39,680	39,680	59,520	59,520	59,520	59,520	79,360	79,361	99,201	99,201	119,041	138,881	
		FE	cfm	34,114	34,114	34,114	45,486	45,486	45,589	56,857	68,304	68,229	79,600	79,600	90,972	102,342
		FU	cfm	59,520	59,520	59,520	79,360	79,360	79,375	99,201	119,041	119,041	138,881	138,881	158,721	158,721
		FN	cfm	45,486	45,486	45,529	56,857	56,857	56,837	68,229	79,600	79,600	90,971	90,972	102,343	113,714
FANS J 575V																
	Fans	FA	nr.	4	4	6	6	6	6	8	8	10	10	12	14	
		FE	nr.	6	6	6	8	8	8	10	12	12	14	14	16	
		FU	nr.	6	6	6	8	8	8	10	12	12	14	14	16	
		FN	nr.	8	8	8	10	10	10	12	14	14	16	16	18	
	Air flow rate	FA	cfm	39,680	39,680	59,520	59,520	59,520	59,520	79,360	79,361	99,201	99,201	119,041	138,881	
		FE	cfm	34,114	34,114	34,114	45,486	45,486	45,589	56,857	68,304	68,229	79,600	79,600	90,972	102,342
		FU	cfm	59,520	59,520	59,520	79,360	79,360	79,375	99,201	119,041	119,041	138,881	138,881	158,721	158,721
		FN	cfm	45,486	45,486	45,529	56,857	56,857	56,837	68,229	79,600	79,600	90,971	90,972	102,343	113,714
SOUND DATA																
	Sound power level	FA	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
		FE	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
		FU	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
		FN	dB(A)	84.2	88.5	90.7	92.4	93.6	93.2	92.7	95.1	96.6	95.6	94.4	96.1	97.4

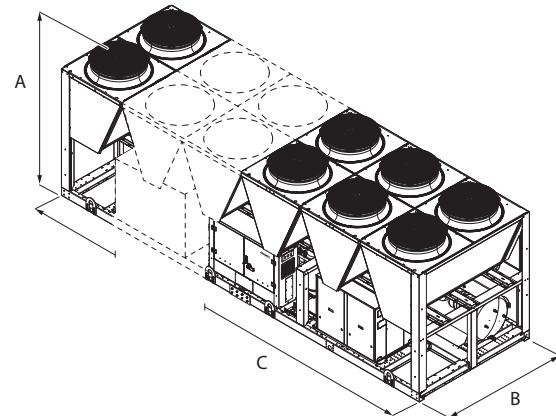
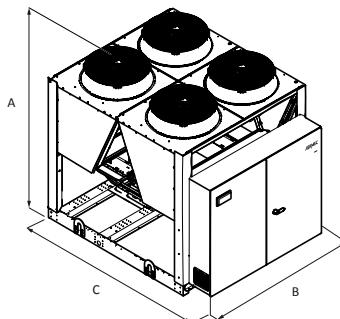
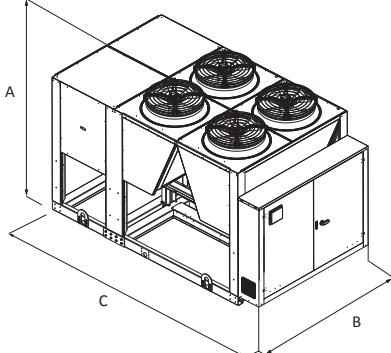
Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.

Dimensions (in)

Versions with accumulation tank
NRB0800-0900FA (*)

NRB0900FA

NRB3000FN



NRB	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
A	All in	97	97	97	97	97	97	97	97	97	97	97	97	97
B	All in	87	87	87	87	87	87	87	87	87	87	87	87	87
C	A in	110 (*)	110 (*)	156	156	156	156	203	203	250	250	297	344	344
	E in	156	156	156	203	203	203	250	297	297	344	344	391	391
	U in	156	156	156	203	203	203	250	297	297	344	344	391	391
	N in	203	203	203	250	250	250	297	344	344	391	391	438	438
Empty weight	A lbs	5,666	5,776	7,187	7,341	7,430	7,540	8,995	9,281	10,692	10,957	12,258	14,484	15,036
	E lbs	6,790	6,900	7,253	8,796	8,951	8,995	10,274	11,574	11,861	13,625	13,845	15,675	16,226
	U lbs	6,790	6,900	7,253	8,796	8,951	8,995	10,274	11,574	11,861	13,625	13,845	15,675	16,226
	N lbs	8,289	8,378	8,730	9,987	10,163	10,207	11,376	12,875	13,162	14,815	15,036	16,843	17,394
														18,739

(*) Depth of models without hydronic kit or with pumps. For models with an accumulation tank, the depth is 156 in.

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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