

NRB

0800/3600
free-cooling

HFC
Refrigerant
R410A

Variable Multi Flow[®]
VMF

Air/Water chillers for outdoor installation, with Free-Cooling
Scroll compressors, plate heat exchanger and axial fans
Cooling capacity 212-1004kW



- 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 50°C, 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.
- DCPX as standard.
- 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.
- AERWEB300:** The AERWEB device provides the remote control of a chiller via a standard PC using an Ethernet connection and a standard browser; 4 models are available:
 - AERWEB300-6:** Web server to monitor and control up to 6 devices on the RS485 network;
 - AERWEB300-18:** Web server to monitor and control up to 18 devices on the RS485 network;
 - AERWEB300-6G:** Web server to monitor and control up to 6 devices on the RS485 network with integrated GPRS modem;
 - AERWEB300-18G:** Web server to monitor and control up to 18 devices on the RS485 network with integrated GPRS modem;
- PGD1:** This allows chiller command operations to be implemented from a distance.
- MULTICHILLER_PCO:** Control system to command, activate and deactivate the individual chillers in a system in which several units are installed in parallel, always ensuring constant delivery to the evaporators.
- FL:** Flow switch
Warning: the flow switch and water filter must be fitted. Otherwise, the warranty will be considered null.
- FB1:** 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.
- AVX:** Anti-vibration spring supports.

Accessories installed in the factory

- DRE:** Electronic device for reducing the rated starting current.
- RIF:** Current phase advancer. When connected to the motor in parallel, the input current is reduced (by about 10%).
- GP:** Anti-intrusion grille.
- COMPATIBILITY with the VMF SYSTEM**
For further information about the system see the specific documentation.

Compatibility of accessories

NRB mod.	vers.	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
AER485P1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AERWEB300		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PGD1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MULTICHILLER_PCO		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FL		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FB1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AVX	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Accessories installed in the factory																		
DRENRB		0800	0900	1000	1100	1200	1400	1600	-	-	-	-	-	-	-	-	-	-
RIF	A	0800	0900	1000	1100	1200	1400	1601	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
	E	0800	0900	1000	1101	1201	1401	1601	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
	U	0800	0900	1000	1101	1201	1401	1601	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
	N	0801	0901	1001	1101	1201	1401	1601	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
GP	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

(1) Refer to the technical documentation

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 (1)

0800-0900-1000-1100-1200-1400-1600-1800-2000-2200-2400-2600-2800-3000-3200-3400-3600

8 Field of use

° Standard (processed water up to +4°C)

Y Low temperature (processed water from +4°C to -10°C)

X Electronic thermostatic valve (processed water up to +4°C)

Z Electronic thermostatic valve low temperature (processed water from +4°C to -10°C)

9 Model

F Free Cooling

P Free cooling plus (2)

10 Heat recovery

° Without heat recovery

D With desuperheater(3)

11 Version

A High efficiency

E Silenced high efficiency

U Extra high efficiency

N Silenced extra high efficiency

12 Condensing coils

° Micro-channel aluminium

O Painted micro-channel aluminium

R Copper - Copper

S Copper - Tin-plated

V Painted copper / aluminium

Free Cooling water coils

Copper Aluminium

Copper Painted aluminium

Copper - Copper

Copper - Tin-plated

Copper Painted aluminium

13 Fans

° Standard

J Inverter

14 Power supply

° 400V/3/50Hz with circuit breakers on the compressors and auxiliary circuit

15-16 Integrated hydronic kit

00 Without hydronic kit

With 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

With 2 pumps:

DA Pump A and reserve pump

DB Pump B and reserve pump

DC Pump C and reserve pump

DD Pump D and reserve pump

DE Pump E and reserve pump

DF Pump F and reserve pump

DG Pump G and reserve pump

DH Pump H and reserve pump

DI Pump I and reserve pump

DJ Pump J and reserve pump

With 1 pump and accumulation tank:

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

AI Pump I and accumulation tank

AJ Pump J and accumulation tank

With 2 pumps 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

BI Pump I with reserve pump and accumulation tank

BJ Pump J with reserve pump and accumulation tank

(1) Sizes 1800 - 3600 have an electronic thermostatic valve fitted as standard

(2) **The Free-Cooling Plus "P" models are only compatible with "O" and "O" coils**

(3) "D" heat recovery units not compatible with operating ranges "Y" and "Z" (no YD - ZD)

Technical data

NRB - FA			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
12°C/7°C	Cooling power	(1)	kW	212	234	273	307	336	373	432	474	542	584	656	720	760	803	878	922	962
	Absorbed power	(1)	kW	76	88	94	109	125	146	157	185	201	229	244	259	280	308	321	348	375
	EER	(1)		2.79	2.66	2,91	2,82	2.69	2.56	2.75	2.56	2,70	2.55	2.69	2,78	2,71	2.61	2.73	2.65	2.57
	Water flow rate	(1)	l/h	36440	40290	47020	52820	57780	64210	74300	81560	93260	100510	112760	123870	130640	138170	151030	158660	165510
	pressure drops	(1)	kPa	49	50	68	76	91	99	64	68	88	96	122	71	78	82	99	108	118
15 °C	Cooling power	(2)	kW	181,7	184,6	264,1	270,9	275,1	279,1	364,6	369,8	456,1	461,3	548,0	632,6	638,6	644,2	731,2	736,7	741,0
	Absorbed power	(2)	kW	7.5	7.5	11,2	11,2	11,2	11,2	15,0	15,0	18,7	18,7	22,5	26,2	26,2	26,2	30,0	30,0	30,0
	EER	(2)		24,2	24,6	23,5	24,1	24,5	24,8	24,3	24,7	24,3	24,6	24,4	24,1	24,3	24,5	24,4	24,6	24,7
	Water flow rate	(2)	l/h	36440	40290	47020	52820	57780	64210	74300	81560	93260	100510	112760	123870	130640	138170	151030	158660	165510
	pressure drops	(2)	kPa	88	97	101	117	139	158	112	125	144	161	188	119	132	142	159	175	190

NRB - FE				0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
12°C/7°C	Cooling power	(1)	kW	221	243	265	310	345	379	439	498	547	610	653	714	753	816	886	926	967
	Absorbed power	(1)	kW	73	84	96	107	122	142	155	175	199	219	245	258	279	300	317	343	369
	EER	(1)		3,00	2,88	2,77	2,91	2,82	2,67	2,82	2,85	2,75	2,78	2,67	2,77	2,70	2,72	2,80	2,70	2,62
	Water flow rate	(1)	l/h	37940	41730	45620	53370	59290	65230	75430	85680	94060	104940	112290	122810	129480	140310	152350	159310	166270
	pressure drops	(1)	kPa	44	53	57	82	90	109	58	75	85	89	102	69	77	85	100	109	119
15°C	Cooling power	(2)	kW	214,0	219,0	223,0	289,2	295,9	300,6	371,1	440,5	448,2	518,9	524,8	595,6	600,6	671,7	743,5	749,0	753,6
	Absorbed power	(2)	kW	7,9	7,9	7,9	10,5	10,5	10,5	13,1	15,8	15,8	18,4	18,4	21,0	21,0	23,6	26,3	26,3	26,3
	EER	(2)		27,2	27,8	28,3	27,5	28,2	28,6	28,3	28,0	28,5	28,2	28,6	28,4	28,6	28,4	28,3	28,5	28,7
	Water flow rate	(2)	l/h	37940	41730	45620	53370	59290	65230	75430	85680	94060	104940	112290	122810	129480	140310	152350	159310	166270
	pressure drops	(2)	kPa	67	80	88	120	136	165	95	114	132	139	159	110	122	132	150	163	178

Data

(1) Water evaporator 12°C/7°C, Outside air 35°C; 0% Free-cooling

(2) Evaporator water 15°C; Outside air 2°C

			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Electrical Data																				
Total input current (chiller)	FA	(2)	A	134	152	165	189	215	248	270	316	347	394	423	450	483	529	557	602	646
Total input current (Free-Cooling)			A	15	15	23	23	23	30	30	38	38	46	53	53	53	61	61	61	
Maximum current (FLA)			A	190	207	243	272	301	330	379	420	480	521	587	639	672	713	773	814	855
Starting current (LRA)			A	379	434	470	523	552	664	713	689	749	790	856	909	941	982	1043	1084	1124
Total input current (chiller)	FE	(2)	A	126	142	160	179	205	236	258	292	333	368	411	432	465	501	531	575	619
Total input current (Free-Cooling)			A	11	11	11	15	15	15	18	22	22	26	26	29	29	33	37	37	37
Maximum current (FLA)			A	210	226	243	291	321	350	398	464	505	565	606	659	692	752	812	853	894
Starting current (LRA)			A	398	454	470	542	571	684	732	734	774	835	876	928	961	1021	1081	1122	1163
Scroll Compressors																				
Compressors / Circuit		no.	4/2	4/2	4/2	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	6/2	
Coolant gas		Type	R410A																	
System side plate heat exchanger																				
Heat exchanger		no.	1																	
Water connections (IN/OUT)		Ø	see the technical documentation																	
Standard axial fans																				
Fans	FA	no.	4	4	6	6	6	6	8	8	10	10	12	14	14	14	16	16	16	
Air flow rate, cooling		m³/h	57600	57600	86400	86400	86400	86400	115200	115200	144000	144000	172800	201600	201600	201600	230400	230400	230400	
Fans	FE	no.	6	6	6	8	8	8	10	12	12	14	14	16	16	18	20	20	20	
Air flow rate, cooling		m³/h	64800	64800	64800	86400	86400	86400	108000	129600	129600	151200	151200	172800	172800	194400	216000	216000	216000	
Sound Data																				
sound power level	FA	dB(A)	88,0	88,1	90,3	90,2	90,2	90,2	91,7	92,2	93,9	94,4	95,8	96,7	96,7	96,7	97,4	97,4	97,4	
	FE	dB(A)	85,0	85,1	85,1	86,5	86,5	86,5	87,7	89,2	89,7	91,0	91,5	92,2	92,2	92,8	93,4	93,4	93,4	

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

Sound power (Cold operation) Aermec determines the sound power value based on measures in accordance with standard UNI EN ISO 9614-2, in compliance with Eurovent certification.

Technical data

NRB - FU				0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
12°C/7°C	Cooling power	(1)	kW	227	251	276	320	358	396	455	516	569	634	681	742	785	849	920	965	1011
	Absorbed power	(1)	kW	74	84	94	106	121	138	153	173	195	216	238	253	272	294	312	335	358
	EER	(1)		3.08	3,00	2,93	3,01	2,97	2,86	2,97	2,98	2,92	2,94	2,86	2,93	2,88	2,89	2,95	2,88	2,83
	Water flow rate	(1)	l/h	39090	43150	47430	55110	61560	68160	78330	88740	97900	109000	117110	127630	135030	146070	158190	166010	173820
	pressure drops	(1)	kPa	47	57	61	88	97	120	62	81	92	96	111	75	84	92	108	118	130
15 °C	Cooling power	(2)	kW	250,5	258,2	264,7	339,9	350,6	358,8	440,2	520,4	533,3	615,3	625,6	707,4	716,3	799,0	882,4	892,2	900,7
	Absorbed power	(2)	kW	11,2	11,2	11,2	15,0	15,0	15,0	18,7	22,5	22,5	26,2	26,2	30,0	30,0	33,7	37,5	37,5	37,5
	EER	(2)		22,3	23,0	23,5	22,7	23,4	23,9	23,5	23,1	23,7	23,5	23,8	23,6	23,9	23,7	23,5	23,8	24,0
	Water flow rate	(2)	l/h	39090	43150	47430	55110	61560	68160	78330	88740	97900	109000	117110	127630	135030	146070	158190	166010	173820
	pressure drops	(2)	kPa	71	86	95	128	147	179	103	122	142	150	173	119	133	143	161	177	194

NRB - FN			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
12°C/7°C	Cooling power	(1)	kW	228	252	278	320	358	397	454	511	563	628	675	728	769	837	900	943	985
	Absorbed power	(1)	kW	73	82	92	105	119	136	151	171	194	213	236	253	273	292	312	337	362
	EER	(1)		3.15	3,07	3,01	3.06	3,02	2,91	3,01	2,98	2.90	2.94	2,86	2,88	2,82	2,86	2,88	2,80	2.72
	Water flow rate	(1)	l/h	39270	43420	47810	55090	61630	68310	78160	87880	96890	108100	116150	125260	132330	143980	154790	162140	169490
	pressure drops	(1)	kPa	50	61	66	88	98	120	63	79	90	94	109	72	80	90	103	113	123
15°C	Cooling power	(2)	kW	263,0	272,4	280,8	342,2	354,1	363,5	431,2	498,3	510,5	580,2	589,4	657,1	664,7	735,5	805,1	812,8	819,4
	Absorbed power	(2)	kW	10,5	10,5	10,5	13,1	13,1	13,1	15,8	18,4	18,4	21,0	21,0	23,6	23,6	26,3	28,9	28,9	28,9
	EER	(2)		25,0	25,9	26,7	26,1	27,0	27,7	27,4	27,1	27,8	27,6	28,1	27,8	28,1	28,0	27,9	28,1	28,4
	Water flow rate	(2)	l/h	39270	43420	47810	55090	61630	68310	78160	87880	96890	108100	116150	125260	132330	143980	154790	162140	169490
	pressure drops	(2)	kPa	71	86	96	121	139	171	95	115	133	143	164	110	122	134	151	165	180

Data

(1) Water evaporator 12°C/7°C, Outside air 35°C; 0% Free-cooling

(2) Evaporator water 15°C; Outside air 2°C

			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Electrical Data																				
Total input current (chiller)	FU	(2)	A	133	149	166	189	212	240	267	304	341	379	418	444	474	513	547	587	626
Total input current (Free-Cooling)			A	23	23	23	30	30	30	38	46	46	53	53	61	61	68	76	76	76
Maximum current (FLA)			A	210	226	243	291	321	350	398	464	505	565	606	659	692	752	812	853	894
Starting current (LRA)			A	398	454	470	542	571	684	732	734	774	835	876	928	961	1021	1081	1122	1163
Total input current (chiller)	FN	(2)	A	124	140	156	177	199	227	251	287	325	360	399	425	457	490	525	567	608
Total input current (Free-Cooling)			A	15	15	15	18	18	18	22	26	26	29	29	33	33	37	40	40	40
Maximum current (FLA)			A	229	246	262	311	340	369	423	484	525	585	626	678	711	771	832	872	913
Starting current (LRA)			A	418	473	489	561	591	703	758	753	794	854	895	947	980	1041	1101	1142	1183
Scroll Compressors																				
Compressors / Circuit		no.	4/2	4/2	4/2	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	6/2	
Coolant gas		Type	R410A																	
System side plate heat exchanger																				
Heat exchanger		no.	1																	
Water connections (IN/OUT)		Ø	Refer to the technical documentation																	
Standard axial fans																				
Fans	FU	no.	6	6	6	8	8	8	10	12	12	14	14	16	16	18	20	20	20	
Air flow rate, cooling		m³/h	86400	86400	86400	115200	115200	115200	144000	172800	172800	201600	201600	230400	230400	259200	288000	288000	288000	
Fans	FN	no.	8	8	8	10	10	10	12	14	14	16	16	18	18	20	22	22	22	
Air flow rate, cooling		m³/h	86400	86400	86400	108000	108000	108000	129600	151200	151200	172800	172800	194400	194400	216000	237600	237600	237600	
Sound Data																				
sound power level	FU	dB(A)	90.2	90.3	90.3	91.7	91.7	91.7	92.9	94.4	94.9	96.2	96.7	97.4	97.4	98.0	98.6	98.6	98.6	
	FN	dB(A)	86.5	86.6	86.6	87.7	87.7	87.7	88.7	90.0	90.5	91.7	92.2	92.8	92.8	93.4	93.9	93.9	93.9	

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

Sound power (Cold operation) Aermec determines the sound power value based on measures in accordance with standard UNI EN ISO 9614-2, in compliance with Eurovent certification.

Technical data

NRB - PA			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
12°C/7°C	Cooling power	(1)	kW	210	232	272	305	333	370	429	470	538	579	651	715	754	797	872	915	954
	Absorbed power	(1)	kW	77	89	95	110	126	148	159	187	203	232	247	262	283	312	325	352	380
	EER	(1)		2,74	2,61	2,87	2,77	2,64	2,50	2,70	2,51	2,65	2,49	2,64	2,73	2,66	2,56	2,68	2,60	2,51
	Water flow rate	(1)	l/h	36180	39970	46770	52470	57330	63580	73780	80810	92570	99620	111940	123050	129690	137020	149950	157370	164040
	pressure drops	(1)	kPa	48	49	67	75	89	97	63	66	87	95	120	70	77	81	97	106	116
15°C	Cooling power	(2)	kW	194,7	197,6	283,1	290,3	294,6	298,4	390,7	395,6	488,6	493,7	587,0	678,1	684,2	689,6	783,3	788,6	792,7
	Absorbed power	(2)	kW	7,6	7,6	11,4	11,4	11,4	11,4	15,2	15,2	19,0	19,0	22,9	26,7	26,7	26,7	30,5	30,5	30,5
	EER	(2)		25,6	25,9	24,8	25,4	25,8	26,1	25,6	26,0	25,7	25,9	25,7	25,4	25,7	25,9	25,7	25,9	26,0
	Water flow rate	(2)	l/h	36180	39970	46770	52470	57330	63580	73780	80810	92570	99620	111940	123050	129690	137020	149950	157370	164040
	pressure drops	(2)	kPa	86	95	100	116	137	155	110	123	142	158	185	117	130	140	157	172	186

NRB - PE			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
12°C/7°C	Cooling power	(1)	kW	219	241	263	308	342	376	435	495	542	605	647	708	746	809	879	918	957
	Absorbed power	(1)	kW	74	85	97	108	124	144	157	177	202	222	248	261	282	303	320	347	374
	EER	(1)		2.96	2.83	2.72	2.86	2.76	2.61	2.77	2.80	2.69	2.73	2.61	2.72	2.64	2.67	2.74	2.64	2.56
	Water flow rate	(1)	l/h	37740	41460	45270	53040	58850	64630	74860	85080	93300	104130	111310	121840	128340	139130	151170	157930	164680
	pressure drops	(1)	kPa	44	53	56	81	89	107	57	74	84	88	100	68	76	84	98	107	117
15°C	Cooling power	(2)	kW	227,5	233,2	237,5	307,8	315,2	320,1	395,2	469,1	477,4	552,7	558,9	634,3	639,5	715,4	791,9	797,6	802,2
	Absorbed power	(2)	kW	8,0	8,0	8,0	10,7	10,7	10,7	13,3	16,0	16,0	18,6	18,6	21,3	21,3	24,0	26,6	26,6	26,6
	EER	(2)		28,5	29,2	29,7	28,9	29,6	30,0	29,7	29,4	29,9	29,6	30,0	29,8	30,0	29,8	29,7	29,9	30,1
	Water flow rate	(2)	l/h	37740	41460	45270	53040	58850	64630	74860	85080	93300	104130	111310	121840	128340	139130	151170	157930	164680
	pressure drops	(2)	kPa	66	79	87	118	134	162	94	113	130	137	156	108	120	130	147	160	174

Data

(1) Water evaporator 12°C/7°C, Outside air 35°C; 0% Free-cooling

(2) Evaporator water 15°C; Outside air 2°C

			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Electrical Data																				
Total input current (chiller)	PA	(2)	A	135	154	167	191	217	251	272	320	351	399	427	454	487	534	562	608	653
Total input current (Free-Cooling)			A	15	15	23	23	23	23	31	31	38	38	46	54	54	54	61	61	61
Maximum current (FLA)			A	190	207	243	272	301	330	379	420	480	521	587	639	672	713	773	814	855
Starting current (LRA)			A	379	434	470	523	552	664	713	689	749	790	856	909	941	982	1043	1084	1124
Total input current (chiller)	PE	(2)	A	126	144	162	181	206	238	260	294	336	372	415	436	470	506	536	581	626
Total input current (Free-Cooling)			A	11	11	11	15	15	15	18	22	22	26	26	30	30	33	37	37	37
Maximum current (FLA)			A	210	226	243	291	321	350	398	464	505	565	606	659	692	752	812	853	894
Starting current (LRA)			A	398	454	470	542	571	684	732	734	774	835	876	928	961	1021	1081	1122	1163
Scroll Compressors																				
Compressors / Circuit		no.	4/2	4/2	4/2	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	6/2	
Coolant gas		Type	R410A																	
System side plate heat exchanger																				
Heat exchanger		no.	1																	
Water connections (IN/OUT)		Ø	Refer to the technical documentation																	
Standard axial fans																				
Fans	PA	no.	4	4	6	6	6	6	8	8	10	10	12	14	14	14	16	16	16	
Air flow rate, cooling		m³/h	54800	54800	82200	82200	82200	82200	109600	109600	137000	137000	164400	191800	191800	191800	219200	219200	230400	
Fans	PE	no.	6	6	6	8	8	8	10	12	12	14	14	16	16	18	20	20	20	
Air flow rate, cooling		m³/h	61800	61800	61800	82400	82400	82400	103000	123600	123600	144200	144200	164800	164800	185400	206000	206000	216000	
Sound Data																				
sound power level	PA	dB(A)	88,0	88,1	90,3	90,2	90,2	90,2	91,7	92,2	93,9	94,4	95,8	96,7	96,7	96,7	97,4	97,4	97,4	
	PE	dB(A)	85,0	85,1	85,1	86,5	86,5	86,5	87,7	89,2	89,7	91,0	91,5	92,2	92,2	92,8	93,4	93,4	93,4	

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

Sound power (Cold operation) Aermec determines the sound power value based on measures in accordance with standard UNI EN ISO 9614-2, in compliance with Eurovent certification.

Technical data

NRB - PU			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
12°C/7°C	Cooling power	(1)	kW	226	250	274	319	356	394	453	513	566	630	677	738	780	844	915	959	1004
	Absorbed power	(1)	kW	74	84	95	107	122	140	155	175	197	218	241	255	275	297	315	338	361
	EER	(1)		3,04	2,96	2,89	2,97	2,92	2,82	2,93	2,94	2,87	2,89	2,81	2,89	2,84	2,85	2,91	2,84	2,78
	Water flow rate	(1)	l/h	38910	42940	47170	54840	61230	67730	77910	88280	97340	108400	116410	126920	134220	145220	157320	165030	172740
	pressure drops	(1)	kPa	46	57	60	87	96	118	62	80	91	95	110	74	83	91	106	117	128
15 °C	Cooling power	(2)	kW	267,7	276,5	283,7	363,7	375,7	384,7	471,8	557,5	571,7	659,5	670,6	758,2	767,9	856,5	945,9	956,4	965,5
	Absorbed power	(2)	kW	11,4	11,4	11,4	15,2	15,2	15,2	19,0	22,9	22,9	26,7	26,7	30,5	30,5	34,3	38,1	38,1	38,1
	EER	(2)		23,4	24,2	24,8	23,9	24,7	25,3	24,8	24,4	25,0	24,7	25,2	24,9	25,2	25,0	24,8	25,1	25,4
	Water flow rate	(2)	l/h	38910	42940	47170	54840	61230	67730	77910	88280	97340	108400	116410	126920	134220	145220	157320	165030	172740
	pressure drops	(2)	kPa	70	85	94	126	145	177	102	121	141	148	171	118	131	141	159	175	191

NRB - PN				0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
12°C/7°C	Cooling power	(1)	kW	227	251	277	319	356	395	452	508	560	625	671	724	764	831	894	936	978
	Absorbed power	(1)	kW	73	83	93	105	120	138	152	173	196	216	239	256	276	296	316	341	366
	EER	(1)		3.11	3.03	2,97	3,02	2,98	2,87	2,97	2,94	2,86	2,90	2,81	2,83	2,77	2,81	2,83	2,75	2,67
	Water flow rate	(1)	l/h	39120	43230	47590	54830	61290	67880	77730	87390	96280	107440	115350	124450	131400	143000	153780	160980	168180
	pressure drops	(1)	kPa	50	60	65	87	97	119	62	78	89	93	108	71	79	88	102	111	122
15 °C	Cooling power	(2)	kW	277,0	288,3	298,1	362,3	376,2	387,0	458,8	529,6	543,5	617,5	627,7	699,7	708,0	783,3	857,4	865,8	872,8
	Absorbed power	(2)	kW	10,7	10,7	10,7	13,3	13,3	13,3	16,0	18,6	18,6	21,3	21,3	24,0	24,0	26,6	29,3	29,3	29,3
	EER	(2)		26,0	27,1	28,0	27,2	28,3	29,1	28,7	28,4	29,2	29,0	29,5	29,2	29,5	29,4	29,3	29,6	29,8
	Water flow rate	(2)	l/h	39120	43230	47590	54830	61290	67880	77730	87390	96280	107440	115350	124450	131400	143000	153780	160980	168180
	pressure drops	(2)	kPa	70	86	96	120	138	169	94	114	132	141	162	108	121	132	149	163	177

Data
(1) Water evaporator 12°C/7°C, Outside air 35°C; 0% Free-cooling
(2) Evaporator water 15°C; Outside air 2°C

			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Electrical Data																				
Total input current (chiller)	PU	(2)	A	134	150	167	190	213	242	269	306	344	382	421	447	478	517	551	591	631
Total input current (Free-Cooling)			A	23	23	23	31	31	31	38	46	46	54	54	61	61	69	77	77	77
Maximum current (FLA)			A	210	226	243	291	321	350	398	464	505	565	606	659	692	752	812	853	894
Starting current (LRA)			A	398	454	470	542	571	684	732	734	774	835	876	928	961	1021	1081	1122	1163
Total input current (chiller)	PN	(2)	A	125	141	157	178	201	229	253	289	328	362	402	429	461	494	529	572	614
Total input current (Free-Cooling)			A	15	15	15	18	18	18	22	26	26	30	30	33	33	37	41	41	41
Maximum current (FLA)			A	229	246	262	311	340	369	423	484	525	585	626	678	711	771	832	872	913
Starting current (LRA)			A	418	473	489	561	591	703	758	753	794	854	895	947	980	1041	1101	1142	1183
Scroll Compressors																				
Compressors / Circuit		no.	4/2	4/2	4/2	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	6/2	
Coolant gas		Type	R410A																	
System side plate heat exchanger																				
Heat exchanger		no.	1																	
Water connections (IN/OUT)		Ø	Refer to the technical documentation																	
Standard axial fans																				
Fans	PU	no.	6	6	6	8	8	8	10	12	12	14	14	16	16	18	20	20	20	
Air flow rate, cooling		m³/h	82200	82200	82200	109600	109600	109600	137000	164400	164400	191800	191800	219200	219200	246600	274000	274000	288000	
Fans	PN	no.	8	8	8	10	10	10	12	14	14	16	16	18	18	20	22	22	22	
Air flow rate, cooling		m³/h	82400	82400	82400	103000	103000	103000	123600	144200	144200	164800	164800	185400	185400	206000	226600	226600	237600	
Sound Data																				
sound power level	PU	dB(A)	90,2	90,3	90,3	91,7	91,7	91,7	92,9	94,4	94,9	96,2	96,7	97,4	97,4	98,0	98,6	98,6	98,6	
	PN	dB(A)	86,5	86,6	86,6	87,7	87,7	87,7	88,7	90,0	90,5	91,7	92,2	92,8	92,8	93,4	93,9	93,9	93,9	

(2) Unit with standard configuration and operation, without integrated hydronic kit
Sound power (Cold operation) Aermec determines the sound power value based on measures in accordance with standard UNI EN ISO 9614-2, in compliance with Eurovent certification.

Data
(1) Water evaporator 12°C/7°C, Outside air 35°C; 0% Free-cooling
(2) Evaporator water 15°C; Outside air 2°C

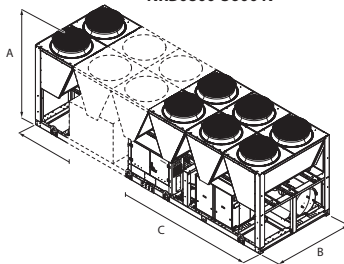
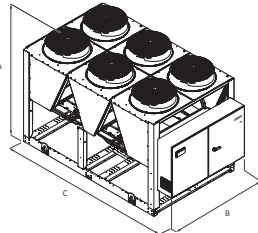
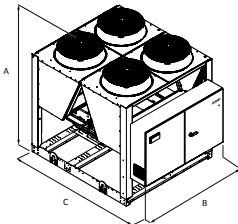
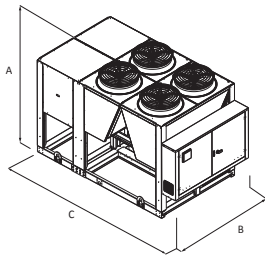
Dimensions (mm)

(1) Versions with accumulation tank
NRB0800-0900 A (*)

NRB0900A

NRB1000-1400 A
NRB0800-1000 E/U

NRB1600-3600 A
NRB1100-3600 E/U
NRB0800-3600 N



NRB																		
A	A	ALL	mm	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
				2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
				2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
				2780*	2780*	3970	3970	3970	3970	5160	5160	6350	6350	7140	8330	8330	8330	9520
				3970	3970	3970	5160	5160	5160	6350	7140	7140	8330	8330	9520	9520	10710	11900
B	B	ALL	mm	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
				2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
				2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	A	mm		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
				2780*	2780*	3970	3970	3970	3970	5160	5160	6350	6350	7140	8330	8330	8330	9520
				3970	3970	3970	5160	5160	5160	6350	7140	7140	8330	8330	9520	9520	10710	11900
				3970	3970	3970	5160	5160	5160	6350	7140	7140	8330	8330	9520	9520	10710	11900
C	U	mm		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
				5160	5160	5160	6350	6350	6350	7140	8330	8330	9520	9520	10710	10710	11900	13090
				5160	5160	5160	6350	6350	6350	7140	8330	8330	9520	9520	10710	10710	11900	13090

* Depth of models without hydronic kit or with pumps. For models with an accumulation tank, the depth is 3970mm