

NRB

0800/3600
glycol-free

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

HFC
Refrigerant
R410A



Variable Multi Flow[®]
VMF

- 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.
- Intermediate plate heat exchanger that creates two circuits:
the glycol hydraulic circuit (glycol is added to protect the coil from freezing),
and the primary hydraulic circuit for glycol-free systems.
- 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.
- **AERNET:** Le dispositif permet d'effectuer le contrôle, la gestion et le suivi à distance d'un groupe d'eau glacée avec un PC, un smartphone ou une tablette via une connexion Cloud. AERNET remplit la fonction de Master tandis que chaque unité connectée est configurée en Slave, jusqu'à un maximum de 6 unités ; avec un simple clic, il est également possible d'enregistrer, sur son propre terminal, un fichier journal contenant toutes les données des unités connectées pour d'éventuelles analyses postérieures.
- **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 <ul style="list-style-type: none">° 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 <ul style="list-style-type: none">B Free-Cooling (glycol-free)G Free-Cooling Plus (glycol-free) (2)
10	Heat recovery <ul style="list-style-type: none">° Without heat recoveryD With desuperheater(3)
11	Version <ul style="list-style-type: none">A High efficiencyE Silenced high efficiencyU Extra high efficiencyN Silenced extra high efficiency
12	Condensing coils <ul style="list-style-type: none">° Micro-channel aluminiumO Painted micro-channel aluminiumR Copper - Copper (3)S Copper - Tin-plated (3)V Painted copper / aluminium (3)
	Free Cooling water coils <ul style="list-style-type: none">Copper AluminiumCopper Painted aluminiumCopper - CopperCopper - Tin-platedCopper Painted aluminium
13	Fans <ul style="list-style-type: none">° StandardJ Inverter
14	Power supply <ul style="list-style-type: none">° 400V/3/50Hz with circuit breakers on the compressors and auxiliary circuit
15-16	Integrated hydronic kit <ul style="list-style-type: none">00 Without hydronic kitWith 1 pump:<ul style="list-style-type: none">PA Pump APB Pump BPC Pump CPD Pump DPE Pump EPF Pump FPG Pump GPH Pump HPI Pump IPJ Pump JWith 2 pumps:<ul style="list-style-type: none">DA Pump A and reserve pumpDB Pump B and reserve pumpDC Pump C and reserve pumpDD Pump D and reserve pumpDE Pump E and reserve pumpDF Pump F and reserve pumpDG Pump G and reserve pumpDH Pump H and reserve pumpDI Pump I and reserve pumpDJ Pump J and reserve pump

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

(2) **The Free-Cooling glycol-free Plus "G" 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 - BA			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	75	83	101	118	129	150	128	151	134	144	156	123	138	144	174	192	195
15°C	Cooling power	(2) kW	151,9	154,4	209,7	218,5	223,2	229,6	303,4	307,4	387,9	391,5	467,8	542,0	545,7	555,9	617,4	620,3	622,6
	Absorbed power	(2) kW	9,8	9,8	14,3	14,3	14,4	14,4	19,2	19,2	24,4	24,4	32,1	37,2	37,2	37,3	41,2	41,2	41,2
	EER	(2)	15,5	15,7	14,6	15,2	15,5	16,0	15,8	16,0	15,9	16,1	14,6	14,6	14,6	14,9	15,0	15,1	15,1
	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	75	83	101	118	129	150	128	151	134	144	156	123	138	144	174	192	195

NRB - BE			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	70	79	93	113	126	152	125	158	131	158	156	122	137	150	179	183	199
15°C	Cooling power	(2) kW	176,2	179,3	182,0	237,8	243,8	247,3	310,9	377,7	391,8	445,7	449,8	512,0	515,4	572,3	634,0	637,2	639,9
	Absorbed power	(2) kW	11,0	11,0	11,0	14,6	14,6	14,6	18,5	24,8	25,3	28,9	28,9	32,1	32,1	34,9	41,3	41,3	41,3
	EER	(2)	16,1	16,4	16,6	16,3	16,7	16,9	16,8	15,2	15,5	15,4	15,6	15,9	16,0	16,4	15,3	15,4	15,5
	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	70	79	93	113	126	152	125	158	131	158	156	122	137	150	179	183	199

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)		(2) A	134	152	165	189	215	248	270	316	347	394	423	450	483	529	557	602	646
Total input current (Free-Cooling)	BA	A	19	19	28	28	29	29	38	38	48	48	62	72	72	72	80	80	80
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)		(2) A	126	142	160	179	205	236	258	292	333	368	411	432	465	501	531	575	619
Total input current (Free-Cooling)	BE	A	17	17	17	22	22	22	27	37	38	43	43	48	48	52	61	61	61
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	BA	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	BE	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	BA	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
	BE	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 - BU		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	74	84	101	120	136	166	135	169	142	171	170	132	149	163	193	198	217
15°C	Cooling power (2)	kW	202,1	206,3	210,0	273,0	281,2	286,0	360,0	438,5	458,1	518,7	524,0	596,2	600,7	665,1	736,4	740,5	744,0
	Absorbed power (2)	kW	14,3	14,3	14,3	19,1	19,1	19,1	24,1	31,6	32,0	36,8	36,8	41,1	41,1	45,0	52,6	52,6	52,6
	EER (2)		14,1	14,4	14,7	14,3	14,7	15,0	14,9	13,9	14,3	14,1	14,3	14,5	14,6	14,8	14,0	14,1	14,2
	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	74	84	101	120	136	166	135	169	142	171	170	132	149	163	193	198	217

NRB - BN		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	70	80	96	120	136	158	131	166	139	168	167	119	134	158	174	194	209
15°C	Cooling power (2)	kW	220,3	225,4	229,9	276,8	285,8	297,7	372,1	419,7	440,5	490,1	495,0	564,0	568,3	629,6	677,5	681,1	684,2
	Absorbed power (2)	kW	14,5	14,5	14,5	18,1	18,2	18,2	24,8	28,3	28,9	31,6	31,6	34,9	34,9	41,3	44,0	44,0	44,0
	EER (2)		15,1	15,5	15,8	15,3	15,7	16,3	15,0	14,9	15,2	15,5	15,7	16,2	16,3	15,2	15,4	15,5	15,5
	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	70	80	96	120	136	158	131	166	139	168	167	119	134	158	174	194	209

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)	(2)	A	133	149	166	189	212	240	267	304	341	379	418	444	474	513	547	587	626
Total input current (Free-Cooling)	BU	A	28	28	28	37	37	37	47	61	62	71	71	79	79	87	101	101	101
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)	(2)	A	124	140	156	177	199	227	251	287	325	360	399	425	457	490	525	567	608
Total input current (Free-Cooling)	BN	A	21	21	21	27	27	27	37	42	43	47	47	52	52	61	65	65	65
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	BU	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	BN	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	BU	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
	BN	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 - GA			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	74	82	100	117	127	147	126	148	132	141	154	121	136	141	171	189	192
15°C	Cooling power	(2) kW	158,9	161,6	218,0	227,5	232,6	239,7	316,8	321,1	405,9	409,8	490,2	568,1	572,1	583,7	646,3	649,5	652,0
	Absorbed power	(2) kW	9,9	9,9	14,5	14,5	14,6	14,6	19,5	19,5	24,6	24,6	32,4	37,7	37,7	37,7	41,7	41,7	41,7
	EER	(2)	16,0	16,3	15,0	15,7	16,0	16,5	16,3	16,5	16,5	16,6	15,1	15,1	15,2	15,5	15,5	15,6	15,6
	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	74	82	100	117	127	147	126	148	132	141	154	121	136	141	171	189	192

NRB - GE			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	182,8	186,2	189,1	247,0	253,3	257,2	323,4	393,2	408,6	464,2	468,6	533,4	537,1	596,1	660,4	663,7	666,7
	Absorbed power	(2) kW	11,1	11,1	11,1	14,7	14,8	14,8	18,7	25,0	25,5	29,2	29,2	32,4	32,4	35,3	41,7	41,7	41,7
	EER	(2)	16,5	16,8	17,1	16,8	17,2	17,4	17,3	15,7	16,0	15,9	16,1	16,5	16,6	16,9	15,8	15,9	16,0
	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	69	78	92	111	124	150	123	156	129	156	153	120	134	148	176	179	195

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)	GA	(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	20	20	29	29	29	29	38	38	48	48	62	72	72	72	80	80	80
Maximum current (FLA)		A	190	207	243	272	301	330	379	420	480	521	587	639	672	713	773	814	855
Starting current (LRA)	GE	A	379	434	470	523	552	664	713	689	749	790	856	909	941	982	1043	1084	1124
Total input current (chiller)		(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	17	17	17	22	22	22	28	38	38	43	43	48	48	52	62	62	62
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	GA	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	GE	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	GA	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
	GE	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 - GU		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	73	84	99	119	134	164	133	168	141	169	168	131	147	161	191	196	215
15°C	Cooling power (2)	kW	209,8	214,3	218,2	283,3	292,2	297,4	374,7	457,1	479,5	541,3	547,2	622,7	627,7	693,9	768,5	773,0	776,8
	Absorbed power (2)	kW	14,5	14,5	14,5	19,3	19,3	19,3	24,4	31,9	32,4	37,2	37,2	41,6	41,6	45,6	53,2	53,2	53,2
	EER (2)		14,5	14,8	15,0	14,7	15,1	15,4	14,3	14,8	14,6	14,7	15,0	15,1	15,2	15,2	14,5	14,5	14,6
	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	73	84	99	119	134	164	133	168	141	169	168	131	147	161	191	196	215

NRB - GN		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	70	79	95	119	134	156	130	164	137	166	165	117	132	156	172	192	206
15°C	Cooling power (2)	kW	228,1	233,5	238,4	286,7	296,3	309,2	387,1	436,1	458,5	509,7	515,0	587,1	591,7	655,6	704,8	708,7	712,0
	Absorbed power (2)	kW	14,7	14,7	14,7	18,3	18,4	18,4	25,0	28,5	29,2	31,9	31,9	35,3	35,3	41,7	44,4	44,4	44,4
	EER (2)		15,5	15,9	16,2	15,7	16,1	16,8	15,5	15,3	15,7	16,0	16,1	16,7	16,8	15,7	15,9	15,9	16,0
	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	79	95	119	134	156	130	164	137	166	165	117	132	156	172	192	206

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)	(2)	A	134	150	167	190	213	242	269	306	344	382	421	447	478	517	551	591	631
Total input current (Free-Cooling)	GU	A	29	29	29	38	38	47	61	62	71	71	80	80	88	102	102	102	102
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)	(2)	A	125	141	157	178	201	229	253	289	328	362	402	429	461	494	529	572	614
Total input current (Free-Cooling)	GN	A	22	22	22	27	27	27	38	42	43	47	47	52	52	62	65	65	65
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	GU	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	GN	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	GU	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
	GN	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

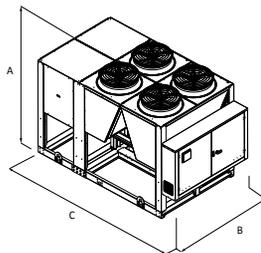
Sound power (Cold operation) Aermec determines the sound power value based on measures in accordance with standard UNI EN ISO 9614-2, in compliance with Eurovent certification.

Data

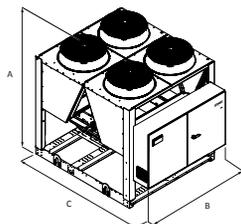
- (1) Water evaporator 12°C/7°C, Outside air 35°C; 0% Free-cooling
(2) Evaporator water 15°C; Outside air 2°C

Dimensions (mm)

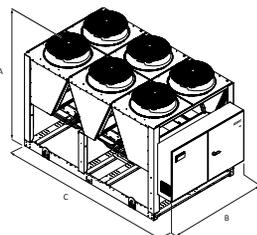
(1) Versions with accumulation tank
NRB0800-0900 A (*)



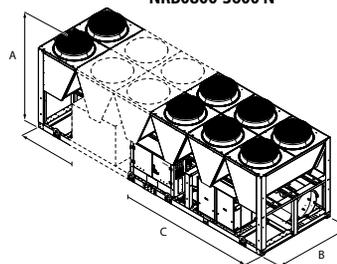
NRB0900A



NRB1000-1400 A
NRB0800-1000 E/U



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



NRB				0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
A	A	ALL	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	B	ALL	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
C	A	mm	2780*	2780*	3970	3970	3970	3970	3970	5160	5160	6350	6350	7140	8330	8330	8330	9520	9520	9520
	E	mm	3970	3970	3970	5160	5160	5160	6350	7140	7140	8330	8330	9520	9520	9520	10710	11900	11900	11900
	U	mm	3970	3970	3970	5160	5160	5160	6350	7140	7140	8330	8330	9520	9520	9520	10710	11900	11900	11900
	N	mm	5160	5160	5160	6350	6350	6350	7140	8330	8330	9520	9520	10710	10710	11900	13090	13090	13090	

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