

NRB 0800H-3600H

Reversible air/water heat pump with shell and tube heat exchanger

Cooling capacity 196 ÷ 971 kW
Heating capacity 209 ÷ 1006 kW

- Shell and tube heat exchanger
- High efficiency also at partial loads
- Night mode
- HP floating: ESEER +7% with inverter fans



DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

They are outdoor units with axial fan scroll compressors and Shell and tube exchangers.

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

VERSIONS

- ° Standard
- A High efficiency
- E Silenced high efficiency
- L Standard silenced

FEATURES

Operating field

Working at full load up to -10 °C outside air temperature in winter, and up to 50 °C in summer. Hot water production up to 55 °C. (for more information, refer to the technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

It is standard in all sizes from 1800 to 3600.

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

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:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load. **Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan**

ACCESSORIES

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

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

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

GP_V: Anti-intrusion grid kit

BRC1: Condensate drip tray. Consider 1 for each V-block.

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.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

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

Antivibration

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Integrated hydronic kit: 00																		
°	AVX1001	AVX1001	AVX1004	AVX1004	AVX1004	AVX1004	AVX1004	AVX1123	AVX1123	AVX1124	AVX1124	AVX1115	AVX1119	AVX1117	AVX1121	AVX1121	AVX1121	
A,L	AVX1001	AVX1004	AVX1004	AVX1004	AVX1004	AVX1123	AVX1123	AVX1124	AVX1124	AVX1115	AVX1115	AVX1117	AVX1117	AVX1116	AVX1116	AVX1118	AVX1118	
E	AVX1004	AVX1123	AVX1123	AVX1123	AVX1123	AVX1124	AVX1119	AVX1117	AVX1117	AVX1116	AVX1116	AVX1118	AVX1118	AVX1120	AVX1120	AVX1118	AVX1122	
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ																		
°	AVX (1)	AVX (1)	AVX1004	AVX1004	AVX1004	AVX (1)	AVX (1)	AVX1123	AVX1123	AVX1124	AVX1124	AVX1115	AVX1119	AVX1117	AVX1121	AVX1121	AVX1121	
A,L	AVX (1)	AVX1004	AVX (1)	AVX (1)	AVX (1)	AVX1123	AVX1123	AVX1124	AVX1124	AVX1115	AVX1115	AVX1117	AVX1117	AVX1116	AVX1116	AVX1118	AVX1118	
E	AVX1004	AVX1123	AVX1123	AVX1123	AVX1123	AVX1124	AVX1119	AVX1117	AVX1117	AVX1116	AVX1116	AVX1118	AVX1118	AVX1120	AVX1120	AVX1118	AVX1122	

(1) Contact us.

Condensation control temperature

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
°	DCPX130	DCPX130	DCPX131	DCPX131	DCPX131	DCPX131	DCPX131	DCPX132	DCPX132
A	DCPX130	DCPX131	DCPX131	DCPX131	DCPX131	DCPX132	DCPX132	DCPX133	DCPX133
E,L	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard
Ver	2200	2400	2600	2800	3000	3200	3400	3600	
°	DCPX133	DCPX133	DCPX134	DCPX134	DCPX135	DCPX135	DCPX135	DCPX135	
A	DCPX134	DCPX134	DCPX135	DCPX135	DCPX136	DCPX136	DCPX137	DCPX137	
E,L	As standard	As standard	As standard	As standard	As standard	As standard	As standard	As standard	

Device for peak current reduction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200
°A,E,L	DRENRB0800 (1)	DRENRB0900 (1)	DRENRB1000 (1)	DRENRB1100 (1)	DRENRB1200 (1)	DRENRB1400 (1)	DRENRB1600 (1)	-	-	-

(1) Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

Power factor correction

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000
°	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1100	RIFNRB1200	RIFNRB1400	RIFNRB1600	RIFNRB1800	RIFNRB2000
A,L	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1100	RIFNRB1200	RIFNRB1401	RIFNRB1601	RIFNRB1800	RIFNRB2000
E	RIFNRB0800	RIFNRB0900	RIFNRB1000	RIFNRB1001	RIFNRB1201	RIFNRB1401	RIFNRB1601	RIFNRB1800	RIFNRB2000
Ver	2200	2400	2600	2800	3000	3200	3400	3600	
°A,E,L	RIFNRB2200	RIFNRB2400	RIFNRB2600	RIFNRB2800	RIFNRB3000	RIFNRB3200	RIFNRB3400	RIFNRB3600	

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

Anti-intrusion grid

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Integrated hydronic kit: 00																		
°	GP2VN	GP2VN	GP3VN	GP3VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP5VN	GP5VN	GP6V	GP6V	GP7V	GP7V	GP7V	GP7V	
A	GP2VN	GP3VN	GP3VN	GP3VN	GP4VN	GP4VN	GP5VN	GP4VN	GP6V	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN	GP9VN	
E	GP3VN	GP4VN	GP4VN	GP4VN	GP4VN	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN	GP10V	GP10V	GP11V	GP11V	GP11V	
L	GP2VN	GP3VN	GP3VN	GP3VN	GP5VN	GP4VN	GP5VN	GP5VN	GP6V	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN	GP9VN	
Integrated hydronic kit: DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ																		
°	GP2VNA	GP2VNA	GP3VN	GP3VN	GP3VNA	GP3VNA	GP4VN	GP4VN	GP5VN	GP5VN	GP6V	GP6V	GP7V	GP7V	GP7V	GP7V	GP7V	
A	GP2VNA	GP3VN	GP3VNA	GP3VNA	GP4VN	GP4VN	GP5VN	GP4VN	GP6V	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN	GP9VN	
E	GP3VN	GP4VN	GP4VN	GP4VN	GP4VN	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN	GP10V	GP10V	GP11V	GP11V	GP11V	
L	GP2VNA	GP3VN	GP3VNA	GP3VNA	GP5VN	GP4VN	GP5VN	GP5VN	GP6V	GP6V	GP7V	GP7V	GP8V	GP8V	GP9VN	GP9VN	GP9VN	

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

Condensate drip

Ver	0800	0900	1000	1100	1200	1400	1600	1800	2000	2200
°	BRC1x2 (1)	BRC1x2 (1)	BRC1x3 (1)	BRC1x3 (1)	BRC1x3 (1)	BRC1x3 (1)	BRC1x3 (1)	BRC1x4 (1)	BRC1x4 (1)	BRC1x5 (1)
A,L	BRC1x2 (1)	BRC1x3 (1)	BRC1x3 (1)	BRC1x3 (1)	BRC1x3 (1)	BRC1x4 (1)	BRC1x4 (1)	BRC1x5 (1)	BRC1x5 (1)	BRC1x6 (1)
E	BRC1x3 (1)	BRC1x4 (1)	BRC1x4 (1)	BRC1x4 (1)	BRC1x4 (1)	BRC1x5 (1)	BRC1x6 (1)	BRC1x7 (1)	BRC1x7 (1)	BRC1x8 (1)

(1) Condensate drip tray. Consider 1 for each V-block.

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

Ver	2400	2600	2800	3000	3200	3400	3600
°	BRC1x5 (1)	BRC1x6 (1)	BRC1x6 (1)	BRC1x7 (1)	BRC1x7 (1)	BRC1x7 (1)	BRC1x7 (1)
A	BRC1x6 (1)	BRC1x7 (1)	BRC1x7 (1)	BRC1x8 (1)	BRC1x8 (1)	BRC1x9 (1)	BRC1x9 (1)
E	BRC1x8 (1)	BRC1x9 (1)	BRC1x9 (1)	BRC1x10 (1)	BRC1x10 (1)	BRC1x11 (1)	BRC1x11 (1)
L	BRC1x6 (1)	BRC1x7 (1)	BRC1x7 (1)	BRC1x8 (1)	BRC1x8 (1)	BRC1x10 (1)	BRC1x10 (1)

(1) Condensate drip tray. Consider 1 for each V-block.

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

CONFIGURATOR

Field	Description
1,2,3	NRB
	Size
4,5,6,7	0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600
8	Operating field
°	Standard mechanic thermostatic valve
X	Electronic thermostatic expansion valve
9	Model
H	Heat pump
W	Heat pump with shell and tube heat exchanger
10	Heat recovery
°	Without heat recovery
D	With desuperheater (1)
11	Version
°	Standard
A	High efficiency
E	Silenced high efficiency
L	Standard silenced
12	Coils
°	Copper-aluminium
R	Copper-copper
S	Copper-Tinned copper
V	Copper-painted aluminium
13	Fans
°	Standard
J	Inverter

Field	Description
14	Power supply
°	400V ~ 3 50Hz with magnet circuit breakers
15,16	Integrated hydronic kit
00	Without hydronic kit
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
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) The desuperheater can only be used with cold running.

Compatibility of models with hydronic units available with a configurator

Version		800	900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
standard	H°								•	•	•	•	•	•	•	•	•	•
Standard silenced	HL								•	•	•	•	•	•	•	•	•	•
High efficiency	HA								•	•	•	•	•	•	•	•	•	•
Silenced high efficiency	HE				•	•	•	•	•	•	•	•	•	•	•	•	•	•

NRB HE

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Cooling performance 12 °C / 7 °C (1)																		
Cooling capacity	kW	209,6	241,7	264,7	294,5	326,7	377,8	432,4	489,4	540,5	597,8	647,7	699,1	734,9	798,7	841,0	904,0	944,9
Input power	kW	67,3	77,4	85,0	98,1	112,4	125,3	139,1	157,0	177,4	192,3	215,2	231,2	250,7	269,1	289,6	308,2	327,5
Cooling total input current	A	115,0	132,0	144,0	164,0	187,0	208,0	230,0	261,0	296,0	322,0	362,0	387,0	417,0	449,0	483,0	515,0	547,0
EER	W/W	3,12	3,12	3,11	3,00	2,91	3,02	3,11	3,12	3,05	3,11	3,01	3,02	2,93	2,97	2,90	2,93	2,89
Water flow rate system side	l/h	36053	41586	45538	50642	56185	64960	74341	84155	92932	102793	111352	120183	126344	137316	144576	155409	162455
Pressure drop system side	kPa	15	20	18	22	16	22	21	27	27	33	21	24	27	27	29	33	36
Heating performance 40 °C / 45 °C (2)																		
Heating capacity	kW	223,4	258,1	283,7	316,7	349,3	403,2	458,7	520,7	571,9	634,1	683,9	741,3	784,2	848,2	895,3	960,1	1006,8
Input power	kW	69,3	80,5	87,9	98,5	109,0	126,1	143,1	162,7	177,1	198,2	211,7	230,0	244,9	264,9	279,5	299,5	315,3
Heating total input current	A	122,0	140,0	153,0	170,0	188,0	216,0	244,0	278,0	305,0	341,0	367,0	396,0	420,0	456,0	482,0	517,0	544,0
COP	W/W	3,22	3,21	3,23	3,22	3,20	3,20	3,21	3,20	3,23	3,20	3,23	3,22	3,20	3,20	3,20	3,21	3,19
Water flow rate system side	l/h	38791	44787	49248	54989	60660	70010	79655	90422	99327	110122	118791	128748	136201	147319	155503	166760	174868
Pressure drop system side	kPa	17	23	20	25	19	25	24	31	31	38	23	27	31	30	33	38	41

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C
(2) Data 14511:2018; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ELECTRIC DATA

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
Electric data																			
Maximum current (FLA)	°	A	168,6	185,0	209,8	239,2	268,5	297,5	326,5	375,9	416,9	466,3	507,2	548,6	581,4	630,9	671,8	712,7	753,6
	A _L	A	168,6	193,5	209,8	239,2	268,5	306,0	335,0	384,4	425,4	474,8	515,7	557,1	589,9	639,4	680,3	729,7	770,6
	E	A	177,1	202,0	218,3	247,7	277,0	314,5	352,0	401,4	442,4	491,8	532,7	574,1	606,9	656,4	697,3	752,6	793,5
Peak current (LRA)	°	A	357,2	412,4	437,2	489,9	519,2	631,7	660,7	645,2	686,2	735,6	776,5	817,9	850,7	900,2	941,1	982,0	1022,9
	A _L	A	357,2	420,9	437,2	489,9	519,2	640,2	669,2	653,7	694,7	744,1	785,0	826,4	859,2	908,7	949,6	999,0	1039,9
	E	A	365,7	429,4	445,7	498,4	527,7	648,7	686,2	670,7	711,7	761,1	802,0	843,4	876,2	925,7	966,6	1021,9	1062,8

ENERGY INDICES (REG. 2016/2281 EU)**NRB H°**

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 400 kW (1)																		
Pdesignh	kW	203	224	260	289	325	346	296	343	379	425	462	495	539	571	600	651	680
SCOP		3,65	3,65	3,65	3,68	3,65	3,60	3,73	3,73	3,80	3,73	3,80	3,68	3,80	3,68	3,75	3,88	3,90
ηsh	%	143,0%	143,0%	143,0%	144,0%	143,0%	146,0%	146,0%	146,0%	149,0%	146,0%	149,0%	144,0%	149,0%	144,0%	147,0%	152,0%	153,0%
SEER - 12/7 (EN14825:2018) with standard fans (2)																		
SEER	W/W	3,79	3,66	3,88	3,81	3,91	3,80	3,89	3,92	3,80	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)
Seasonal efficiency	%	148,6%	143,4%	152,2%	149,4%	153,4%	149,0%	152,6%	153,8%	149,0%	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)
SEER - (EN14825:2018) 12/7 with inverter fans (4)																		
SEER	W/W	-	-	-	-	-	-	-	-	-	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)	- (3)
SEER - 23/18 (EN14825:2018) with standard fans (5)																		
SEER	W/W	-	-	-	-	-	-	-	-	-	4,67	4,76	4,64	4,70	4,66	4,56	4,66	4,65
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	183,9%	187,3%	182,4%	184,9%	183,4%	179,3%	183,4%	182,8%
SEER - 23/18 (EN14825:2018) with inverter fans																		
SEER	W/W	-	-	-	-	-	-	-	-	-	4,88	5,02	5,07	4,92	4,96	4,96	4,92	4,96
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	192,3%	197,7%	199,7%	193,6%	195,3%	195,4%	193,7%	195,3%
SEPR - (EN14825:2018) High temperature with standard fans (5)																		
SEPR	W/W	-	-	-	-	-	-	-	-	-	5,53	5,54	5,52	5,52	5,51	5,51	5,51	5,51
SEPR - (EN14825:2018) High temperature with inverter fans (5)																		
SEPR	W/W	-	-	-	-	-	-	-	-	-	5,53	5,54	5,52	5,52	5,51	5,51	5,51	5,51

(1) Efficiencies for low temperature applications (35 °C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12 °C / 7 °C
(4) Calculation performed with FIXED/VARIABLE water flow rate and FIXED/VARIABLE outlet temperature.
(5) Calculation performed with FIXED water flow rate.

NRB HL

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 400 kW (1)																			
Pdesignh	kW	197	235	258	286	314	370	306	353	385	433	464	509	538	586	617	666	697	
SCOP		3,73	3,75	3,75	3,68	3,68	3,73	3,93	3,83	3,95	3,83	3,93	3,88	3,88	3,75	3,85	3,95	3,98	
ηsh	%	146.0%	147.0%	147.0%	144.0%	144.0%	146.0%	154.0%	150.0%	155.0%	150.0%	154%	152.0%	152.0%	147.0%	151.0%	155.0%	156.0%	
SEER - 12/7 (EN14825:2018) with standard fans (2)																			
SEER	W/W	3,83	4,01	3,92	3,90	3,82	4,05	3,99	4,04	3,87	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	
Seasonal efficiency	%	150,2%	157,4%	153,8%	153,0%	149,8%	159,0%	156,6%	158,6%	151,8%	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	
SEER - (EN14825:2018) 12/7 with inverter fans (4)																			
SEER	W/W	-	-	-	-	-	-	-	-	-	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	
SEER - 23/18 (EN14825: 2018) with standard fans (5)																			
SEER	W/W	-	-	-	-	-	-	-	-	-	4,72	4,67	4,79	4,63	4,73	4,67	4,75	4,70	
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	185,7%	183,6%	188,7%	182,3%	186,3%	183,6%	187,0%	185,0%	
SEER - 23/18 (EN14825: 2018) with inverter fans																			
SEER	W/W	-	-	-	-	-	-	-	-	-	5,08	5,11	5,10	4,95	5,04	4,96	5,09	5,02	
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	200,3%	201,2%	201,1%	195,0%	198,4%	195,2%	200,4%	197,7%	
SEPR - (EN14825: 2018) High temperature with standard fans (3)																			
SEPR	W/W	-	-	-	-	-	-	-	-	-	5,51	5,51	5,53	5,51	5,52	5,52	5,51	5,51	
SEPR - (EN14825: 2018) High temperature with inverter fans (5)																			
SEPR	W/W	-	-	-	-	-	-	-	-	-	5,51	5,51	5,53	5,51	5,52	5,52	5,51	5,51	

(1) Efficiencies for low temperature applications (35 °C)

(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

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

(4) Calculation performed with FIXED/VARIABLE water flow rate and FIXED/VARIABLE outlet temperature.

(5) Calculation performed with FIXED water flow rate.

NRB HA

Size		0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	
UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 400 kW (1)																			
Pdesignh	kW	196	233	255	284	312	367	304	351	384	430	462	506	535	582	614	662	693	
SCOP		3,03	3,08	3,03	3,08	3,03	3,10	3,13	3,08	3,30	3,08	3,15	3,08	3,13	3,03	3,20	3,20	3,15	
ηsh	%	118.0%	120.0%	118.0%	120.0%	118.0%	121.0%	122.0%	120.0%	129.0%	120.0%	123.0%	120.0%	122.0%	118.0%	125.0%	125.0%	123.0%	
SEER - 12/7 (EN14825:2018) with standard fans (2)																			
SEER	W/W	3,96	4,13	4,09	4,09	4,07	4,23	4,22	4,22	4,10	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	
Seasonal efficiency	%	155,4%	162,2%	160,6%	160,6%	159,8%	166,2%	165,8%	165,8%	161,0%	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	-(3)	
SEER - (EN14825:2018) 12/7 with inverter fans (4)																			
SEER	W/W	-	-	-	-	-	-	-	-	-	4,58	4,57	4,60	4,55	4,60	4,56	4,60	4,56	
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	180,3%	179,6%	180,8%	179,1%	180,8%	179,2%	181,0%	179,2%	
SEER - 23/18 (EN14825: 2018) with standard fans (5)																			
SEER	W/W	-	-	-	-	-	-	-	-	-	4,96	5,01	5,02	4,84	4,92	4,87	4,95	4,94	
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	195,3%	197,4%	197,8%	190,5%	193,9%	191,8%	195,0%	194,6%	
SEER - 23/18 (EN14825: 2018) with inverter fans																			
SEER	W/W	-	-	-	-	-	-	-	-	-	4,58	4,57	4,60	4,55	4,60	4,54	4,60	4,56	
Seasonal efficiency	%	-	-	-	-	-	-	-	-	-	180,3%	179,6%	180,8%	179,1%	180,8%	178,4%	181,0%	179,2%	
SEPR - (EN14825: 2018) High temperature with standard fans (3)																			
SEPR	W/W	-	-	-	-	-	-	-	-	-	5,52	5,52	5,51	5,55	5,52	5,51	5,51	5,52	
SEPR - (EN14825: 2018) High temperature with inverter fans (5)																			
SEPR	W/W	-	-	-	-	-	-	-	-	-	5,52	5,52	5,51	5,55	5,52	5,51	5,51	5,52	

(1) Efficiencies for average temperature applications (55 °C)

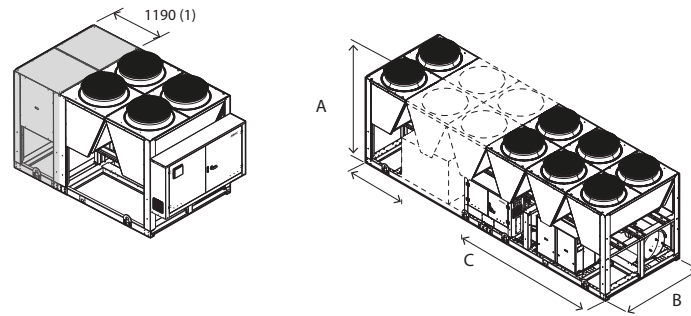
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

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

(4) Calculation performed with FIXED/VARIABLE water flow rate and FIXED/VARIABLE outlet temperature.

(5) Calculation performed with FIXED water flow rate.

DIMENSIONS



(1) Additional module needed to contain the hydronic kit in sizes:

NRB 0800 - 0900 - 1400 - 1600, "H" versions

NRB 0800 - 1000 - 1100 - 1200, "HA, HL" versions

Size			0800	0900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
Dimensions and weights without hydronic kit																			
A	° ,A,E,L	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	° ,A,E,L	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
	°	mm	2780	2780	3970	3970	3970	3970	3970	4760	4760	5950	5950	7140	7140	8330	8330	8330	8330
C	A,L	mm	2780	3970	3970	3970	3970	4760	4760	5950	5950	7140	7140	8330	8330	9520	9520	10710	10710
	E	mm	3970	4760	4760	4760	4760	5950	7140	8330	8330	9520	9520	10710	10710	11900	11900	13090	13090
	°	kg	2630	2710	3280	3330	3380	3430	3460	4260	4350	5040	5120	5820	6090	7000	7080	7180	7300
Empty weight	A,L	kg	2680	3250	3330	3360	3460	4120	4220	4870	4980	5500	5870	6670	6920	7570	7650	8330	8410
	E	kg	3210	3890	3970	4000	4100	4650	5200	5940	6040	6610	6950	7680	7930	8530	8610	9300	9380
Dimensions and weights with pump/s																			
A	° ,A,E,L	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
B	° ,A,E,L	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
	°	mm	3970 (1)	3970 (1)	3970	3970	3970	5160 (1)	5160 (1)	4760	4760	5950	5950	7140	7140	8330	8330	8330	8330
C	A,L	mm	3970 (1)	3970	5160 (1)	5160 (1)	5160 (1)	4760	4760	5950	5950	7140	7140	8330	8330	9520	9520	10710	10710
	E	mm	3970	4760	4760	4760	4760	5950	7140	8330	8330	9520	9520	10710	10710	11900	11900	13090	13090

(1) With additional module.

■ The dimensions shown in the table for units with a hydronic kit already include the additional module where necessary. For the weights, please contact the head office.

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.

Aermec S.p.A.

Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com