

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

VERSIONS

- ° Standard
- ▲ High efficiency
- Silenced high efficiency
- 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 |
|-----------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER48SP1 | °;A,E,L | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AERNET | °;A,E,L | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| FL | °;A,E,L | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| MULTICILLER_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 | DCPX132 | DCPX132 | DCPX132 | DCPX133 | DCPX133 |
| E,L | As standard |
| Ver | | | | | | | | | |
| 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 | |

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 |

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

| 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 | GP4VN | GP4VN | GP5VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP7V | GP7V | GP7V | GP7V |
| A | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP5VN | GP4VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP9VN | GP9VN |
| E | GP3VN | GP4VN | GP4VN | GP4VN | GP4VN | GP6V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP10V | GP11V | GP11V | GP11V | GP11V | GP11V |
| L | GP2VN | GP3VN | GP3VN | GP3VN | GP5VN | GP4VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | 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 | GP7V |
| A | GP2VNA | GP3VN | GP3VNA | GP3VNA | GP3VNA | GP4VN | GP4VN | GP5VN | GP4VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP9VN | GP9VN |
| E | GP3VN | GP4VN | GP4VN | GP4VN | GP4VN | GP6V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP10V | GP11V | GP11V | GP11V | GP11V | GP11V |
| L | GP2VNA | GP3VN | GP3VNA | GP3VNA | GP5VN | GP4VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP9VN | GP9VN | GP9VN |

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Condensate drip

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ° | BRClx2 (1) | BRClx2 (1) | BRClx3 (1) | BRClx4 (1) | BRClx4 (1) | BRClx5 (1) |
| A,L | BRClx2 (1) | BRClx3 (1) | BRClx3 (1) | BRClx3 (1) | BRClx4 (1) | BRClx4 (1) | BRClx4 (1) | BRClx5 (1) | BRClx5 (1) | BRClx6 (1) |
| E | BRClx3 (1) | BRClx4 (1) | BRClx4 (1) | BRClx4 (1) | BRClx4 (1) | BRClx5 (1) | BRClx6 (1) | BRClx7 (1) | BRClx7 (1) | BRClx8 (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 |
|-----|------------|------------|------------|-------------|-------------|-------------|-------------|
| ° | BRClx5 (1) | BRClx6 (1) | BRClx6 (1) | BRClx7 (1) | BRClx7 (1) | BRClx7 (1) | BRClx7 (1) |
| A | BRClx6 (1) | BRClx7 (1) | BRClx7 (1) | BRClx8 (1) | BRClx8 (1) | BRClx9 (1) | BRClx9 (1) |
| E | BRClx8 (1) | BRClx9 (1) | BRClx9 (1) | BRClx10 (1) | BRClx10 (1) | BRClx11 (1) | BRClx11 (1) |
| L | BRClx6 (1) | BRClx7 (1) | BRClx7 (1) | BRClx8 (1) | BRClx8 (1) | BRClx10 (1) | BRClx10 (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 |
| 4,5,6,7 | Size 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 | | | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

PERFORMANCE SPECIFICATIONS

NRB H*

| 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 | 196,4 | 218,0 | 251,8 | 279,2 | 314,2 | 353,8 | 389,0 | 456,7 | 501,9 | 568,7 | 616,1 | 654,4 | 718,3 | 767,3 | 805,3 | 869,8 | 914,8 |
| Input power | kW | 74,1 | 86,1 | 91,7 | 107,9 | 119,5 | 141,6 | 155,6 | 172,6 | 193,2 | 211,2 | 231,1 | 253,0 | 266,2 | 291,4 | 315,7 | 327,9 | 353,4 |
| Cooling total input current | A | 131,0 | 150,0 | 163,0 | 189,0 | 207,0 | 242,0 | 263,0 | 296,0 | 331,0 | 365,0 | 398,0 | 437,0 | 456,0 | 504,0 | 545,0 | 564,0 | 606,0 |
| EER | W/W | 2,65 | 2,53 | 2,74 | 2,59 | 2,63 | 2,50 | 2,50 | 2,65 | 2,60 | 2,69 | 2,67 | 2,59 | 2,70 | 2,63 | 2,55 | 2,65 | 2,59 |
| Water flow rate system side | l/h | 33794 | 37515 | 43314 | 48020 | 54046 | 60853 | 66910 | 78531 | 86311 | 97783 | 105939 | 112529 | 123524 | 131922 | 138449 | 149552 | 157281 |
| Pressure drop system side | kPa | 34 | 24 | 32 | 26 | 33 | 31 | 37 | 32 | 38 | 37 | 42 | 50 | 48 | 31 | 34 | 37 | 34 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 215,0 | 237,4 | 275,0 | 306,0 | 343,9 | 366,2 | 412,6 | 478,4 | 527,7 | 592,0 | 643,2 | 688,4 | 749,9 | 796,0 | 836,5 | 906,8 | 948,0 |
| Input power | kW | 70,2 | 77,7 | 89,6 | 99,8 | 112,3 | 121,7 | 137,0 | 157,3 | 174,3 | 193,9 | 210,7 | 227,9 | 245,2 | 260,8 | 275,8 | 295,9 | 311,8 |
| Heating total input current | A | 125,0 | 138,0 | 158,0 | 175,0 | 195,0 | 212,0 | 236,0 | 274,0 | 304,0 | 340,0 | 369,0 | 397,0 | 427,0 | 458,0 | 484,0 | 519,0 | 549,0 |
| COP | W/W | 3,06 | 3,06 | 3,07 | 3,07 | 3,06 | 3,01 | 3,04 | 3,03 | 3,05 | 3,05 | 3,02 | 3,06 | 3,05 | 3,03 | 3,06 | 3,04 | |
| Water flow rate system side | l/h | 37311 | 41207 | 47745 | 53116 | 59705 | 63585 | 71640 | 83071 | 91620 | 102803 | 111681 | 119537 | 130226 | 138243 | 145280 | 157484 | 164648 |
| Pressure drop system side | kPa | 42 | 28 | 38 | 32 | 40 | 34 | 42 | 36 | 42 | 40 | 46 | 56 | 53 | 33 | 37 | 40 | 37 |

(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.

NRB HL

| 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 | 197,9 | 227,9 | 247,7 | 275,2 | 301,1 | 359,1 | 392,2 | 453,8 | 495,0 | 552,5 | 592,9 | 651,2 | 681,3 | 748,5 | 784,2 | 848,0 | 882,7 |
| Input power | kW | 75,3 | 78,6 | 89,8 | 106,2 | 123,2 | 133,0 | 153,4 | 169,0 | 193,9 | 208,9 | 234,1 | 246,2 | 269,6 | 284,8 | 310,0 | 326,5 | 352,4 |
| Cooling total input current | A | 126,0 | 133,0 | 150,0 | 176,0 | 203,0 | 220,0 | 252,0 | 280,0 | 321,0 | 347,0 | 390,0 | 409,0 | 446,0 | 473,0 | 515,0 | 543,0 | 585,0 |
| EER | W/W | 2,63 | 2,90 | 2,76 | 2,59 | 2,44 | 2,70 | 2,56 | 2,69 | 2,55 | 2,64 | 2,53 | 2,65 | 2,53 | 2,63 | 2,53 | 2,60 | 2,50 |
| Water flow rate system side | l/h | 34040 | 39194 | 42596 | 47339 | 51779 | 61758 | 67431 | 78030 | 85114 | 95003 | 101921 | 111950 | 117122 | 128680 | 134820 | 145791 | 151753 |
| Pressure drop system side | kPa | 14 | 18 | 15 | 19 | 14 | 20 | 18 | 23 | 23 | 29 | 17 | 21 | 23 | 23 | 25 | 29 | 32 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 209,8 | 250,3 | 274,3 | 304,8 | 334,3 | 394,3 | 431,0 | 497,4 | 543,0 | 609,3 | 654,3 | 717,5 | 757,3 | 825,0 | 869,1 | 937,0 | 980,9 |
| Input power | kW | 67,1 | 79,5 | 87,1 | 98,9 | 108,2 | 126,2 | 136,7 | 158,3 | 173,1 | 194,8 | 208,8 | 228,3 | 244,3 | 265,2 | 280,3 | 299,5 | 317,4 |
| Heating total input current | A | 119,0 | 139,0 | 152,0 | 171,0 | 187,0 | 216,0 | 234,0 | 272,0 | 299,0 | 336,0 | 363,0 | 394,0 | 420,0 | 457,0 | 484,0 | 518,0 | 549,0 |
| COP | W/W | 3,13 | 3,15 | 3,15 | 3,08 | 3,09 | 3,12 | 3,15 | 3,14 | 3,14 | 3,13 | 3,13 | 3,14 | 3,10 | 3,11 | 3,10 | 3,13 | 3,09 |
| Water flow rate system side | l/h | 36429 | 43447 | 47619 | 52924 | 58032 | 68469 | 74854 | 86379 | 94306 | 105817 | 113644 | 124618 | 131534 | 143298 | 150956 | 162747 | 170364 |
| Pressure drop system side | kPa | 15 | 22 | 19 | 23 | 17 | 24 | 21 | 28 | 28 | 35 | 21 | 26 | 29 | 28 | 31 | 36 | 39 |

(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.

NRB HA

| 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 | 206,2 | 243,8 | 266,9 | 297,0 | 329,2 | 385,5 | 425,3 | 488,4 | 538,3 | 601,4 | 651,3 | 708,6 | 745,3 | 815,1 | 859,0 | 928,0 | 971,4 |
| Input power | kW | 71,8 | 78,2 | 88,1 | 102,2 | 117,2 | 129,2 | 147,2 | 163,7 | 184,8 | 201,3 | 222,3 | 237,4 | 257,9 | 274,4 | 295,7 | 312,0 | 333,6 |
| Cooling total input current | A | 127,0 | 141,0 | 157,0 | 179,0 | 203,0 | 225,0 | 254,0 | 285,0 | 321,0 | 352,0 | 389,0 | 416,0 | 448,0 | 479,0 | 515,0 | 546,0 | 582,0 |
| EER | W/W | 2,87 | 3,12 | 3,03 | 2,91 | 2,81 | 2,98 | 2,89 | 2,98 | 2,91 | 2,99 | 2,93 | 2,99 | 2,89 | 2,97 | 2,91 | 2,97 | 2,91 |
| Water flow rate system side | l/h | 35459 | 41942 | 45909 | 51076 | 56619 | 66291 | 73125 | 83982 | 92547 | 103407 | 111966 | 121819 | 128141 | 140122 | 147682 | 159542 | 167008 |
| Pressure drop system side | kPa | 15 | 21 | 18 | 22 | 17 | 23 | 21 | 27 | 27 | 34 | 21 | 25 | 28 | 28 | 31 | 35 | 38 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 214,3 | 254,4 | 279,0 | 310,5 | 341,2 | 400,9 | 438,9 | 506,0 | 553,2 | 620,0 | 666,5 | 730,0 | 771,1 | 840,0 | 885,5 | 954,2 | 999,6 |
| Input power | kW | 66,6 | 79,3 | 86,7 | 97,1 | 106,2 | 124,8 | 137,1 | 157,5 | 171,8 | 193,5 | 207,0 | 226,8 | 240,1 | 260,9 | 275,3 | 297,4 | 311,6 |
| Heating total input current | A | 120,0 | 142,0 | 155,0 | 172,0 | 187,0 | 219,0 | 240,0 | 277,0 | 303,0 | 342,0 | 368,0 | 401,0 | 421,0 | 460,0 | 485,0 | 526,0 | 550,0 |
| COP | W/W | 3,22 | 3,21 | 3,22 | 3,20 | 3,21 | 3,21 | 3,20 | 3,21 | 3,22 | 3,20 | 3,22 | 3,22 | 3,21 | 3,22 | 3,22 | 3,21 | 3,21 |
| Water flow rate system side | l/h | 37204 | 44148 | 48436 | 53909 | 59226 | 69618 | 76226 | 87877 | 96076 | 107669 | 115772 | 126793 | 133932 | 145898 | 153804 | 165737 | 173613 |
| Pressure drop system side | kPa | 16 | 23 | 20 | 24 | 18 | 25 | 22 | 29 | 29 | 36 | 22 | 26 | 30 | 30 | 33 | 37 | 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.

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 | 3,21 | 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) | |
| 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) | |
| SEER - (EN14825:2018) 12/7 with inverter fans (4) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - (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 | 4,92 | 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 | |
| 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 | |

(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% | 1,54% | 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 (5) | | | | | | | | | | | | | | | | | | |
| 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% | 123,0% | 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 (5) | | | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,52 | 5,51 | 5,55 | 5,52 | 5,51 | 5,52 | 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.

NRB HE

| 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 | 204 | 236 | 259 | 290 | 320 | 369 | 318 | 361 | 397 | 440 | 474 | 514 | 544 | 588 | 621 | 666 | 698 |
| SCOP | | 3,05 | 3,08 | 3,05 | 3,10 | 3,03 | 3,08 | 3,13 | 3,05 | 3,30 | 3,08 | 3,15 | 3,08 | 3,13 | 3,03 | 3,20 | 3,20 | 3,13 |
| ηsh | % | 119,0% | 120,0% | 119,0% | 121,0% | 118,0% | 120,0% | 122,0% | 119,0% | 129,0% | 120,0% | 123,0% | 120,0% | 122,0% | 118,0% | 125,0% | 125,0% | 122,0% |
| SEER - 12/7 (EN14825:2018) with standard fans (2) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | 4,16 | 4,15 | 4,18 | 4,19 | 4,16 | 4,27 | 4,39 | 4,36 | 4,22 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | |
| Seasonal efficiency | % | 163,4% | 163,0% | 164,2% | 164,6% | 163,4% | 167,8% | 172,6% | 171,4% | 165,8% | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | |
| SEER - (EN14825:2018) 12/7 with inverter fans (4) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,71 | 4,67 | 4,74 | 4,66 | 4,69 | 4,62 | 4,71 | 4,66 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 185,4% | 183,7% | 186,6% | 183,4% | 184,6% | 181,9% | 185,4% | 183,4% |
| SEER - 23/18 (EN14825: 2018) with standard fans (5) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 5,17 | 5,20 | 5,16 | 5,01 | 5,04 | 4,99 | 5,03 | 5,03 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 203,6% | 204,9% | 203,2% | 197,2% | 198,6% | 196,5% | 198,1% | 198,1% |
| SEER - 23/18 (EN14825: 2018) with inverter fans | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,71 | 4,67 | 4,74 | 4,66 | 4,69 | 4,62 | 4,71 | 4,66 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 185,4% | 183,7% | 186,6% | 183,4% | 184,6% | 181,9% | 185,4% | 183,4% |
| SEPR - (EN14825: 2018) High temperature with standard fans (5) | | | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,54 | 5,57 | 5,52 | 5,54 | 5,58 | 5,56 | 5,55 |
| SEPR - (EN14825: 2018) High temperature with inverter fans (5) | | | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,54 | 5,57 | 5,52 | 5,54 | 5,58 | 5,56 | 5,55 |

(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.

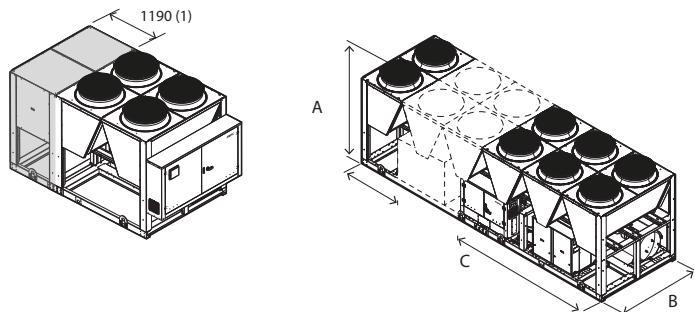
(5) Calculation performed with FIXED water flow rate.

GENERAL TECHNICAL DATA

| Size | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 | |
|--|--------|-------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Compressor | | | | | | | | | | | | | | | | | | |
| Type | °A,E,L | type | Scroll | | | | | | | | | | | | | | | |
| Compressor regulation | °A,E,L | Type | On-Off | | | | | | | | | | | | | | | |
| Number | °A,E,L | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 6 | |
| Circuits | °A,E,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Refrigerant | °A,L | type | R410A | | | | | | | | | | | | | | | |
| | E | type | | | | | | | | | | | | | | | | |
| Refrigerant charge | kg | 41,0 | 42,0 | 55,0 | 56,0 | 56,0 | 58,0 | 58,0 | 84,0 | 84,0 | 100,0 | 100,0 | 113,0 | 116,0 | 138,0 | 138,0 | 143,0 | |
| | A,L | kg | 43,0 | 56,0 | 58,0 | 58,0 | 60,0 | 84,0 | 87,0 | 100,0 | 103,0 | 116,0 | 125,0 | 138,0 | 138,0 | 166,0 | 166,0 | 183,0 |
| | E | kg | 56,0 | 80,0 | 82,0 | 82,0 | 84,0 | 97,0 | 113,0 | 137,0 | 140,0 | 153,0 | 162,0 | 175,0 | 175,0 | 203,0 | 203,0 | 220,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | | |
| Type | °A,E,L | type | Shell and tube | | | | | | | | | | | | | | | |
| System side hydraulic connections | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °A,E,L | Type | Grooved joints | | | | | | | | | | | | | | | |
| Sizes (in/out) | ° | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 5" | 5" | |
| | A,E,L | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 5" | 5" | 5" | 5" | 5" | |
| Fan | | | | | | | | | | | | | | | | | | |
| Type | °A,E,L | type | Axial | | | | | | | | | | | | | | | |
| Fan motor | °A | type | Asynchronous | | | | | | | | | | | | | | | |
| | E,L | type | Asynchronous with phase cut | | | | | | | | | | | | | | | |
| Number | no. | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | |
| | A,L | no. | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 18 | |
| | E | no. | 6 | 8 | 8 | 8 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | |
| Air flow rate | m³/h | 80000 | 80000 | 120000 | 120000 | 120000 | 120000 | 120000 | 160000 | 160000 | 200000 | 200000 | 240000 | 240000 | 280000 | 280000 | 280000 | |
| | A | 80000 | 120000 | 120000 | 120000 | 120000 | 160000 | 160000 | 200000 | 240000 | 240000 | 280000 | 320000 | 320000 | 360000 | 360000 | 360000 | |
| | E | 90000 | 120000 | 120000 | 120000 | 150000 | 180000 | 210000 | 240000 | 270000 | 300000 | 330000 | 330000 | 330000 | 330000 | 330000 | 330000 | |
| | L | 60000 | 90000 | 90000 | 90000 | 120000 | 120000 | 150000 | 180000 | 210000 | 240000 | 270000 | 300000 | 330000 | 330000 | 330000 | 330000 | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | | | | | |
| | ° | dB(A) | 90,0 | 89,5 | 91,6 | 91,6 | 91,6 | 91,6 | 91,6 | 93,1 | 93,1 | 94,2 | 94,2 | 95,1 | 95,1 | 95,9 | 95,9 | 95,9 |
| Sound power level | A | dB(A) | 90,0 | 91,6 | 91,6 | 91,6 | 91,6 | 93,1 | 94,2 | 94,2 | 95,1 | 95,1 | 95,9 | 95,9 | 96,6 | 96,6 | 97,2 | 97,2 |
| | E | dB(A) | 84,6 | 86,1 | 86,1 | 86,1 | 86,1 | 87,2 | 88,2 | 89,4 | 89,9 | 91,1 | 91,6 | 92,2 | 92,2 | 92,7 | 93,2 | 93,2 |
| | L | dB(A) | 82,6 | 84,6 | 84,6 | 84,6 | 84,6 | 86,1 | 86,1 | 87,7 | 88,2 | 89,6 | 90,1 | 90,9 | 90,9 | 91,6 | 92,1 | 92,1 |
| | ° | dB(A) | 57,0 | 57,4 | 59,3 | 59,3 | 59,3 | 59,3 | 59,3 | 60,7 | 60,7 | 61,7 | 61,7 | 62,5 | 62,5 | 63,2 | 63,2 | 63,2 |
| Sound pressure level (10 m) | A | dB(A) | 57,0 | 59,3 | 59,3 | 59,3 | 60,7 | 60,7 | 61,7 | 61,7 | 62,5 | 62,5 | 63,2 | 63,2 | 63,7 | 63,7 | 64,2 | 64,2 |
| | E | dB(A) | 52,0 | 53,7 | 53,7 | 53,7 | 54,7 | 54,7 | 55,5 | 56,7 | 57,2 | 58,2 | 58,7 | 59,2 | 59,6 | 59,6 | 60,0 | 60,0 |
| | L | dB(A) | 50,0 | 52,4 | 52,4 | 52,4 | 52,4 | 53,8 | 53,8 | 55,2 | 55,7 | 57,0 | 57,5 | 58,2 | 58,2 | 58,7 | 59,1 | 59,1 |

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

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 |
| C ° mm | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 4760 | 4760 | 5950 | 5950 | 7140 | 7140 | 8330 |
| C A,L mm | 2780 | 3970 | 3970 | 3970 | 3970 | 4760 | 4760 | 4760 | 4760 | 4760 | 5950 | 5950 | 7140 | 7140 | 8330 | 8330 | 8330 |
| C E mm | 3970 | 4760 | 4760 | 4760 | 4760 | 5950 | 5950 | 5950 | 5950 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 |
| Empty weight ° 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 |
| Empty weight 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 |
| C ° mm | 3970 | 3970 | 3970 | 3970 | 3970 | 5160 (1) | 5160 (1) | 4760 | 4760 | 5950 | 5950 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 |
| C A,L mm | 3970 | 3970 | 5160 (1) | 5160 (1) | 5160 (1) | 4760 | 4760 | 5950 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 |
| C 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.

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