

# NRB

**0800/3600**  
**only cooling**

**Air/Water chillers for outdoor installation**  
**Scroll compressors, plate heat exchangers and axial fans**  
**Cooling capacity 221 - 1047kW**

## R410A



Aermec participate in the EUROVENT program: LCP the products are present on the site [www.eurovent-certification.com](http://www.eurovent-certification.com)

*Variable Multi Flow*

VMF



- **HIGH EFFICIENCY ALSO AT PARTIAL LOADS**
- **MICROCHANNEL COIL**
- **HP FLOATING: ESEER +7% WITH INVERTER FANS**
- **NIGHT MODE**

### Characteristics

Outdoor chillers for the production of chilled water with high-efficiency scroll compressors, axial fans, microchannel condenser coils, plate heat exchanger. In the units (with desuperheater or total recovery) there is also the possibility of producing hot water for free. The base, the structure and the panels are made of steel treated with polyester paint.

#### Versions

|              |                                |
|--------------|--------------------------------|
| <b>NRB_°</b> | Standard                       |
| <b>NRB_L</b> | Standard low noise             |
| <b>NRB_A</b> | High efficiency                |
| <b>NRB_E</b> | High efficiency low noise      |
| <b>NRB_U</b> | Very high efficiency           |
| <b>NRB_N</b> | Very high efficiency low noise |

**Range of operation:** Work up to 50°C of outdoor air temperature at full load, depending on size and version. For further details refer to the selection software/technical documentation.

- Unit with 2 refrigerant circuits designed to provide maximum efficiency at full load, also ensuring high

efficiency at partial loads and ensuring continuity in case one of the circuits stops

- The full range uses aluminium microchannel coils, ensuring very high levels of efficiency. This allows using less refrigerant compared to traditional copper coils.
- The possibility of using the electronic thermostatic valve brings significant benefits, in particular when the refrigerant is working at partial loads to the benefit of energy efficiency of the unit. It is supplied as standard from size 1800÷3600 optional for all other sizes.
- Electrical heater for plate heat exchanger
- Possibility of integrated hydronic kit that encloses the main hydraulic components; it is available in different configurations with one or two pumps, with different static pressures available
- Microprocessor adjustment, with keyboard and LCD display, for easy consultation and intervention on the unit via a menu available in several languages. Adjustment includes complete management of the alarms and their log.
- The presence of a programmable timer allows set-

ting time bands of operation and a possible second set-point

- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- **Floating HP:** is supplied as standard on all models. This modulates the fan speed according to the unit load and offers an improved ESEER (beyond the declared values) when applied with variable speed fans (ie. units with DCPX option or inverter fans). **ESEER improvements of up to 7% are obtained with inverter equipped models.**
- **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 is standard on all low noise versions. For all other versions either the DCPX accessory or "J" inverter fan must be specified to allow Night Mode to operate.**

### Accessories

- **AER485P1:** RS-485 interface for supervision systems with MODBUS protocol.
- **AERWEB300:** Accessory AERWEB allows remote control of a chiller through a common PC and an ethernet connection over a common browser; 4 versions available:  
**AERWEB300-6:** Web server to monitor and remote control max. 6 units in RS485 network;  
**AERWEB300-18:** Web server to monitor and remote control max. 18 units in RS485 network;  
**AERWEB300-6G:** Web server to monitor and remote control max. 6 units in RS485 network with integrated GPRS modem;  
**AERWEB300-18G:** Web server to monitor and remote control max. 18 units in RS485 network

with integrated GPRS modem;

- **PGD1:** Remote control of the chiller operating functions.
- **MULTICHILLER\_PCO:** Control system for multiple parallel installed constant flow chillers providing individual chiller on/off and control capability.
- **DCPX:** Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer. **Standard in option low noise version or with desuperheater.**
- **AVX:** Spring anti-vibration mounts.
- **FL:** flow switch **The accessory must be mounted or otherwise forfeit warranty**

#### Accessories factory fitted only

- **DRE:** Electronic soft starter which reduces starting current.
- **RIF:** Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current).
- **GP:** Coil guards

#### COMPATIBILITY WITH THE VMF SYSTEM.

For further system information please refer to the specific documentation.

## Compatibility of accessories

| Mod. NRB                               | vers. | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|----------------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1                               |       | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| AERWEB300                              |       | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| PGD1                                   |       | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| MULTICHILLER_PCO                       |       | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| DCPX                                   | (1)   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| FL                                     |       | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| AVX                                    | (1)   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| <b>Accessories factory fitted only</b> |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| DRENRB                                 |       | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                                        | °     | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|                                        | L     | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1601 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| 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)   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
|                                        | (2) ° | -    | -    | -    | -    | -    | -    | -    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
|                                        | (2) L | -    | -    | -    | -    | -    | -    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
|                                        | (2) A | -    | -    | -    | -    | -    | -    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
|                                        | (2) E | -    | -    | -    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
|                                        | (2) U | -    | -    | -    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| XLA                                    | (2) N | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |

(1) Refer to the technical documentation; (2) with the accessory XLA not use the DCPX

## Unit Configurator

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

| Field   | Description                                                                                           | 15-16 | Integrated hydronic kit                        |
|---------|-------------------------------------------------------------------------------------------------------|-------|------------------------------------------------|
| 1,2,3   | NRB                                                                                                   | 00    | Without hydronic kit                           |
| 4,5,6,7 | Sizes (2)<br>0800-0900-1000-1100-1200-1400-1600-1800-2000-<br>2200-2400-2600-2800-3000-3200-3400-3600 |       | <b>With n°1 pump: (6)</b>                      |
|         |                                                                                                       | 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                                         |
|         |                                                                                                       |       | <b>With n°2 pump: (6)</b>                      |
|         |                                                                                                       | DA    | Pump A and Stand-by pump                       |
|         |                                                                                                       | DB    | Pump B and Stand-by pump                       |
|         |                                                                                                       | DC    | Pump C and Stand-by pump                       |
|         |                                                                                                       | DD    | Pump D and Stand-by pump                       |
|         |                                                                                                       | DE    | Pump E and Stand-by pump                       |
|         |                                                                                                       | DF    | Pump F and Stand-by pump                       |
|         |                                                                                                       | DG    | Pump G and Stand-by pump                       |
|         |                                                                                                       | DH    | Pump H and Stand-by pump                       |
|         |                                                                                                       | DI    | Pump I and Stand-by pump                       |
|         |                                                                                                       | DJ    | Pump J and Stand-by pump                       |
|         |                                                                                                       |       | <b>With n° 1 pump and buffer tank: (6)(7)</b>  |
|         |                                                                                                       | AA    | Pump A and buffer tank                         |
|         |                                                                                                       | AB    | Pump B and buffer tank                         |
|         |                                                                                                       | AC    | Pump C and buffer tank                         |
|         |                                                                                                       | AD    | Pump D and buffer tank                         |
|         |                                                                                                       | AE    | Pump E and buffer tank                         |
|         |                                                                                                       | AF    | Pump F and buffer tank                         |
|         |                                                                                                       | AG    | Pump G and buffer tank                         |
|         |                                                                                                       | AH    | Pump H and buffer tank                         |
|         |                                                                                                       | AI    | Pump I and buffer tank                         |
|         |                                                                                                       | AJ    | Pump J and buffer tank                         |
|         |                                                                                                       |       | <b>With n° 2 pumps and buffer tank: (6)(7)</b> |
|         |                                                                                                       | BA    | Pump A with Stand-by pump and buffer tank      |
|         |                                                                                                       | BB    | Pump B with Stand-by pump and buffer tank      |
|         |                                                                                                       | BC    | Pump C with Stand-by pump and buffer tank      |
|         |                                                                                                       | BD    | Pump D with Stand-by pump and buffer tank      |
|         |                                                                                                       | BE    | Pump E with Stand-by pump and buffer tank      |
|         |                                                                                                       | BF    | Pump F with Stand-by pump and buffer tank      |
|         |                                                                                                       | BG    | Pump G with Stand-by pump and buffer tank      |
|         |                                                                                                       | BH    | Pump H with Stand-by pump and buffer tank      |
|         |                                                                                                       | BI    | Pump I with Stand-by pump and buffer tank      |
|         |                                                                                                       | BJ    | Pump J with Stand-by pump and buffer tank      |
| 8       | <b>Operational limits</b>                                                                             |       |                                                |
|         | ° Standard (temperature of water produced up to +4 °C)(3)                                             |       |                                                |
| Y       | Low temperature (temperature of water produced from +4°C a -8°C) (4)                                  |       |                                                |
| X       | Electronic thermostatic valve (temperature of water produced up to +4 °C)                             |       |                                                |
| Z       | Low temperature electronic thermostatic valve (temperature of water produced from +4°C a -8°C) (4)    |       |                                                |
| 9       | <b>Model</b>                                                                                          |       |                                                |
|         | ° Cooling Only                                                                                        |       |                                                |
| C       | Motor condensing unit (5)                                                                             |       |                                                |
| 10      | <b>Heat recovery</b>                                                                                  |       |                                                |
|         | ° Without heat recovery                                                                               |       |                                                |
| D       | With desuperheater (5)                                                                                |       |                                                |
| T       | With total recovery (5)                                                                               |       |                                                |
| 11      | <b>Version</b>                                                                                        |       |                                                |
|         | ° Standard                                                                                            |       |                                                |
| L       | Low noise Standard                                                                                    |       |                                                |
| A       | High efficiency                                                                                       |       |                                                |
| E       | Low noise high efficiency                                                                             |       |                                                |
| U       | Very high efficiency                                                                                  |       |                                                |
| N       | Low noise very high efficiency                                                                        |       |                                                |
| 12      | <b>Coils</b>                                                                                          |       |                                                |
|         | ° Aluminium microchannel                                                                              |       |                                                |
| O       | Painted aluminium microchannel                                                                        |       |                                                |
| R       | Copper - Copper                                                                                       |       |                                                |
| S       | Copper - Tinned                                                                                       |       |                                                |
| 13      | <b>Fans</b>                                                                                           |       |                                                |
|         | ° Standard                                                                                            |       |                                                |
| M       | increased                                                                                             |       |                                                |
| J       | Inverter                                                                                              |       |                                                |
| 14      | <b>Power supply</b>                                                                                   |       |                                                |
|         | ° 400V/3/50Hz magnet circuit breakers                                                                 |       |                                                |

(2) The availability of models is to be agreed with the Technical Sales

(3) Sizes from 1800÷3600 standard with the electronic thermostatic valve

(4) In the versions A-E-U-N it's possible producing cooling water up to -10°C, for more information contact us

(5) The motor condensing units are not configurable with option Y/X/Z

The models with total recovery "D/T" are not configurable with Y/Z and with vers. "C"

(6) All hydronic kit (from PA to BJ) are not compatible for the following sizes and versions with heat recovery "T":

- 0800 - 0900 - 1000 - 1100 versions "non"

- 0800 - 0900 versions "A"

- 0800 - 0900 versions "L"

(7) All hydraulic kit with pump / and buffer tank (from AA to BJ) are not compatible for all sizes and versions with heat recovery "T"

Technical Data

| NRB - °       |                               |     | 0800        | 0900                           | 1000  | 1100  | 1200  | 1400  | 1600  | 1800  | 2000  | 2200  | 2400   | 2600   | 2800   | 3000   | 3200   | 3400   | 3600   |        |
|---------------|-------------------------------|-----|-------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12°C / 7°C    | V/ph/Hz                       |     | 400V/3/50Hz |                                |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |
|               | Cooling capacity              | (1) | kW          | 221                            | 244   | 270   | 299   | 352   | 404   | 438   | 510   | 559   | 596    | 674    | 719    | 784    | 829    | 878    | 943    | 996    |
|               | Total power input             | (1) | kW          | 73                             | 83    | 94    | 110   | 117   | 135   | 155   | 176   | 194   | 217    | 236    | 256    | 270    | 293    | 315    | 329    | 355    |
|               | EER                           | (1) |             | 3,02                           | 2,93  | 2,87  | 2,71  | 3,00  | 2,98  | 2,82  | 2,90  | 2,88  | 2,75   | 2,85   | 2,81   | 2,90   | 2,83   | 2,79   | 2,86   | 2,80   |
|               | ESEER                         | (1) |             | 4,16                           | 4,07  | 4,00  | 3,84  | 4,14  | 4,12  | 3,96  | 4,04  | 4,02  | 3,88   | 3,98   | 3,94   | 4,04   | 3,97   | 3,92   | 4,00   | 3,93   |
|               | ESEER HP floating             |     |             | ESEER improvements of up to 7% |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |
|               | Cooling Energy Class Eurovent | (1) |             | B                              | B     | C     | C     | B     | B     | C     | B     | C     | C      | C      | C      | B      | C      | C      | C      | C      |
|               | Water flow rate               | (1) | l/h         | 38160                          | 42120 | 46550 | 51620 | 60800 | 69720 | 75600 | 88010 | 96580 | 103000 | 116350 | 124240 | 135450 | 142970 | 151500 | 162790 | 171800 |
| Pressure drop | (1)                           | kPa | 46          | 55                             | 38    | 45    | 44    | 39    | 46    | 40    | 47    | 53    | 52     | 58     | 60     | 36     | 39     | 46     | 43     |        |

| NRB - L    |                               |     | 0800 | 0900                           | 1000  | 1100  | 1200  | 1400  | 1600  | 1800  | 2000  | 2200  | 2400   | 2600   | 2800   | 3000   | 3200   | 3400   | 3600   |        |
|------------|-------------------------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12°C / 7°C | Cooling capacity              | (1) | kW   | 217                            | 237   | 272   | 307   | 343   | 390   | 438   | 497   | 554   | 607    | 665    | 726    | 769    | 833    | 885    | 950    | 1002   |
|            | Total power input             | (1) | kW   | 73                             | 86    | 92    | 107   | 123   | 139   | 152   | 173   | 192   | 214    | 234    | 247    | 270    | 285    | 307    | 323    | 348    |
|            | EER                           | (1) |      | 2,97                           | 2,76  | 2,96  | 2,86  | 2,8   | 2,81  | 2,88  | 2,87  | 2,89  | 2,84   | 2,84   | 2,94   | 2,85   | 2,93   | 2,88   | 2,94   | 2,88   |
|            | ESEER                         | (1) |      | 4,23                           | 4,09  | 4,22  | 4,15  | 4,11  | 4,12  | 4,17  | 4,16  | 4,18  | 4,14   | 4,14   | 4,21   | 4,14   | 4,20   | 4,17   | 4,21   | 4,17   |
|            | ESEER HP floating             |     |      | ESEER improvements of up to 7% |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |
|            | Cooling Energy Class Eurovent | (1) |      | B                              | C     | B     | C     | C     | C     | C     | C     | C     | C      | C      | B      | C      | B      | C      | B      | C      |
|            | Water flow rate               | (1) | l/h  | 37360                          | 40940 | 46960 | 52990 | 59200 | 67320 | 75460 | 85760 | 95600 | 104710 | 114690 | 125170 | 132530 | 143570 | 152590 | 163960 | 172820 |
|            | Pressure drop                 | (1) | kPa  | 25                             | 20    | 27    | 24    | 29    | 23    | 30    | 28    | 37    | 36     | 44     | 28     | 31     | 30     | 34     | 39     | 43     |

| NRB - A    |                               |     | 0800 | 0900                           | 1000  | 1100  | 1200  | 1400  | 1600  | 1800  | 2000  | 2200  | 2400   | 2600   | 2800   | 3000   | 3200   | 3400   | 3600   |        |
|------------|-------------------------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12°C / 7°C | Cooling capacity              | (1) | kW   | 224                            | 252   | 283   | 326   | 361   | 411   | 461   | 518   | 575   | 632    | 696    | 756    | 804    | 865    | 927    | 978    | 1024   |
|            | Total power input             | (1) | kW   | 71                             | 81    | 90    | 105   | 115   | 132   | 148   | 166   | 183   | 203    | 223    | 240    | 256    | 277    | 297    | 314    | 330    |
|            | EER                           | (1) |      | 3,17                           | 3,11  | 3,14  | 3,11  | 3,13  | 3,12  | 3,13  | 3,12  | 3,13  | 3,11   | 3,12   | 3,14   | 3,14   | 3,12   | 3,12   | 3,11   | 3,10   |
|            | ESEER                         | (1) |      | 4,32                           | 4,23  | 4,27  | 4,23  | 4,25  | 4,24  | 4,25  | 4,24  | 4,26  | 4,23   | 4,24   | 4,28   | 4,27   | 4,25   | 4,24   | 4,23   | 4,21   |
|            | ESEER HP floating             |     |      | ESEER improvements of up to 7% |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |
|            | Cooling Energy Class Eurovent | (1) |      | A                              | A     | A     | A     | A     | A     | A     | A     | A     | A      | A      | A      | A      | A      | A      | A      | A      |
|            | Water flow rate               | (1) | l/h  | 38600                          | 43440 | 48860 | 56140 | 62190 | 70870 | 79580 | 89370 | 99160 | 109010 | 120100 | 130380 | 138690 | 149210 | 159850 | 168810 | 176730 |
|            | Pressure drop                 | (1) | kPa  | 27                             | 22    | 30    | 27    | 32    | 25    | 34    | 30    | 39    | 39     | 48     | 30     | 34     | 32     | 38     | 41     | 45     |

| NRB - E    |                               |     | 0800 | 0900                           | 1000  | 1100  | 1200  | 1400  | 1600  | 1800  | 2000  | 2200  | 2400   | 2600   | 2800   | 3000   | 3200   | 3400   | 3600   |        |
|------------|-------------------------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12°C / 7°C | Cooling capacity              | (1) | kW   | 219                            | 248   | 275   | 321   | 358   | 403   | 454   | 514   | 568   | 636    | 687    | 740    | 793    | 856    | 910    | 963    | 1017   |
|            | Total power input             | (1) | kW   | 70                             | 79    | 89    | 102   | 115   | 130   | 144   | 165   | 183   | 203    | 221    | 237    | 255    | 275    | 291    | 310    | 328    |
|            | EER                           | (1) |      | 3,14                           | 3,12  | 3,10  | 3,14  | 3,12  | 3,10  | 3,15  | 3,12  | 3,10  | 3,13   | 3,10   | 3,13   | 3,10   | 3,12   | 3,13   | 3,10   | 3,10   |
|            | ESEER                         | (1) |      | 4,33                           | 4,3   | 4,27  | 4,33  | 4,29  | 4,27  | 4,33  | 4,29  | 4,27  | 4,31   | 4,27   | 4,31   | 4,27   | 4,29   | 4,31   | 4,26   | 4,27   |
|            | ESEER HP floating             |     |      | ESEER improvements of up to 7% |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |
|            | Cooling Energy Class Eurovent | (1) |      | A                              | A     | A     | A     | A     | A     | A     | A     | A     | A      | A      | A      | A      | A      | A      | A      | A      |
|            | Water flow rate               | (1) | l/h  | 37750                          | 42770 | 47360 | 55330 | 61750 | 69420 | 78330 | 88560 | 97950 | 109670 | 118450 | 127560 | 136720 | 147660 | 156920 | 166120 | 175460 |
|            | Pressure drop                 | (1) | kPa  | 19                             | 23    | 20    | 27    | 21    | 27    | 26    | 33    | 33    | 22     | 25     | 30     | 34     | 33     | 38     | 41     | 46     |

| NRB - U    |                               |     | 0800 | 0900                           | 1000  | 1100  | 1200  | 1400  | 1600  | 1800  | 2000  | 2200   | 2400   | 2600   | 2800   | 3000   | 3200   | 3400   | 3600   |        |
|------------|-------------------------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12°C / 7°C | Cooling capacity              | (1) | kW   | 227                            | 257   | 286   | 329   | 369   | 414   | 466   | 528   | 593    | 654    | 716    | 764    | 814    | 877    | 939    | 997    | 1047   |
|            | Total power input             | (1) | kW   | 69                             | 78    | 87    | 99    | 112   | 126   | 141   | 160   | 179    | 198    | 215    | 229    | 249    | 266    | 282    | 303    | 320    |
|            | EER                           | (1) |      | 3,30                           | 3,31  | 3,30  | 3,31  | 3,31  | 3,28  | 3,31  | 3,31  | 3,31   | 3,31   | 3,32   | 3,33   | 3,27   | 3,30   | 3,33   | 3,30   | 3,28   |
|            | ESEER                         | (1) |      | 4,37                           | 4,39  | 4,37  | 4,39  | 4,38  | 4,35  | 4,39  | 4,39  | 4,39   | 4,39   | 4,41   | 4,42   | 4,33   | 4,38   | 4,41   | 4,37   | 4,34   |
|            | ESEER HP floating             |     |      | ESEER improvements of up to 7% |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |
|            | Cooling Energy Class Eurovent | (1) |      | A                              | A     | A     | A     | A     | A     | A     | A     | A      | A      | A      | A      | A      | A      | A      | A      | A      |
|            | Water flow rate               | (1) | l/h  | 39190                          | 44360 | 49350 | 56750 | 63670 | 71380 | 80370 | 91100 | 102250 | 112740 | 123390 | 131760 | 140330 | 151290 | 161950 | 172070 | 180640 |
|            | Pressure drop                 | (1) | kPa  | 20                             | 25    | 21    | 29    | 23    | 28    | 27    | 35    | 36     | 23     | 27     | 32     | 36     | 35     | 40     | 44     | 49     |

| NRB - N    |                               |     | 0800 | 0900                           | 1000  | 1100  | 1200  | 1400  | 1600  | 1800  | 2000  | 2200  | 2400   | 2600   | 2800   | 3000   | 3200   | 3400   | 3600   |        |
|------------|-------------------------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12°C / 7°C | Cooling capacity              | (1) | kW   | 227                            | 260   | 284   | 327   | 367   | 412   | 465   | 521   | 578   | 645    | 702    | 748    | 803    | 865    | 925    | 971    | 1027   |
|            | Total power input             | (1) | kW   | 69                             | 79    | 86    | 99    | 112   | 125   | 140   | 158   | 176   | 195    | 213    | 229    | 247    | 263    | 283    | 301    | 319    |
|            | EER                           | (1) |      | 3,32                           | 3,3   | 3,29  | 3,32  | 3,28  | 3,28  | 3,31  | 3,3   | 3,28  | 3,31   | 3,29   | 3,27   | 3,26   | 3,28   | 3,27   | 3,22   | 3,22   |
|            | ESEER                         | (1) |      | 4,48                           | 4,44  | 4,44  | 4,48  | 4,42  | 4,42  | 4,47  | 4,45  | 4,42  | 4,47   | 4,44   | 4,4    | 4,38   | 4,42   | 4,41   | 4,33   | 4,32   |
|            | ESEER HP floating             |     |      | ESEER improvements of up to 7% |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |
|            | Cooling Energy Class Eurovent | (1) |      | A                              | A     | A     | A     | A     | A     | A     | A     | A     | A      | A      | A      | A      | A      | A      | A      | A      |
|            | Water flow rate               | (1) | l/h  | 39210                          | 44840 | 49030 | 56430 | 63300 | 70980 | 80240 | 89790 | 99680 | 111130 | 120920 | 128990 | 138510 | 149130 | 159500 | 167560 | 177270 |
|            | Pressure drop                 | (1) | kPa  | 20                             | 25    | 21    | 28    | 23    | 28    | 27    | 34    | 34    | 23     | 26     | 30     | 35     | 34     | 39     | 42     | 47     |

Date (14511:2013)  
(1) Water evaporator 12°C/7°C, External air 35°C

## Dimensions (mm)

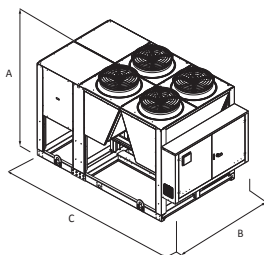
|                                |   |         | 0800                                    | 0900  | 1000  | 1100   | 1200   | 1400   | 1600   | 1800   | 2000   | 2200   | 2400   | 2600   | 2800   | 3000   | 3200   | 3400   | 3600   |      |
|--------------------------------|---|---------|-----------------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| Electrical data                |   |         |                                         |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| Total input current (cooling)  | ° | (2)     | A                                       | 128   | 143   | 160    | 186    | 202    | 230    | 261    | 300    | 330    | 367    | 405    | 434    | 459    | 498    | 535    | 563    | 606  |
| Maximum current (FLA)          |   | (2)     | A                                       | 162   | 178   | 194    | 224    | 259    | 288    | 317    | 365    | 406    | 446    | 494    | 527    | 566    | 607    | 648    | 695    | 736  |
| Starting current (LRA)         |   | (2)     | A                                       | 337   | 392   | 401    | 454    | 490    | 602    | 623    | 606    | 639    | 680    | 720    | 745    | 784    | 825    | 858    | 906    | 950  |
| Total input current (cooling)  | L | (2)     | A                                       | 123   | 142   | 154    | 179    | 203    | 232    | 251    | 290    | 319    | 359    | 390    | 413    | 449    | 479    | 513    | 545    | 585  |
| Maximum current (FLA)          |   |         | A                                       | 174   | 190   | 219    | 249    | 278    | 307    | 349    | 365    | 406    | 446    | 494    | 527    | 566    | 607    | 648    | 695    | 736  |
| Starting current (LRA)         |   |         | A                                       | 339   | 394   | 423    | 467    | 497    | 609    | 642    | 606    | 639    | 680    | 720    | 745    | 784    | 825    | 858    | 906    | 950  |
| Total input current (cooling)  | A | (2)     | A                                       | 124   | 140   | 159    | 182    | 198    | 224    | 252    | 284    | 316    | 349    | 386    | 418    | 442    | 476    | 513    | 542    | 568  |
| Maximum current (FLA)          |   |         | A                                       | 174   | 191   | 220    | 249    | 278    | 307    | 349    | 390    | 444    | 485    | 544    | 590    | 623    | 663    | 717    | 758    | 799  |
| Starting current (LRA)         |   |         | A                                       | 342   | 398   | 427    | 472    | 501    | 614    | 648    | 616    | 670    | 703    | 762    | 800    | 833    | 867    | 913    | 954    | 995  |
| Total input current (cooling)  | E | (2)     | A                                       | 119   | 135   | 149    | 172    | 193    | 216    | 240    | 275    | 306    | 343    | 373    | 397    | 426    | 460    | 488    | 521    | 549  |
| Maximum current (FLA)          |   |         | A                                       | 187   | 203   | 219    | 261    | 291    | 320    | 361    | 421    | 462    | 516    | 556    | 602    | 635    | 689    | 742    | 783    | 824  |
| Starting current (LRA)         |   |         | A                                       | 343   | 398   | 425    | 471    | 501    | 613    | 646    | 632    | 673    | 718    | 759    | 796    | 829    | 874    | 919    | 960    | 1001 |
| Total input current (cooling)  | U | (2)     | A                                       | 124   | 138   | 153    | 176    | 196    | 218    | 244    | 278    | 312    | 348    | 377    | 401    | 432    | 463    | 494    | 528    | 556  |
| Maximum current (FLA)          |   |         | A                                       | 180   | 196   | 213    | 255    | 280    | 309    | 350    | 406    | 447    | 501    | 537    | 583    | 611    | 665    | 718    | 755    | 796  |
| Starting current (LRA)         |   |         | A                                       | 376   | 431   | 447    | 512    | 542    | 654    | 696    | 691    | 732    | 785    | 826    | 872    | 905    | 958    | 1012   | 1053   | 1094 |
| Total input current (cooling)  | N | (2)     | A                                       | 118   | 135   | 147    | 167    | 189    | 209    | 234    | 264    | 295    | 329    | 360    | 385    | 412    | 442    | 475    | 506    | 536  |
| Maximum current (FLA)          |   |         | A                                       | 191   | 208   | 218    | 261    | 290    | 319    | 361    | 415    | 450    | 504    | 539    | 580    | 613    | 658    | 696    | 734    | 771  |
| Starting current (LRA)         |   |         | A                                       | 388   | 443   | 459    | 525    | 554    | 667    | 714    | 703    | 744    | 798    | 838    | 884    | 917    | 971    | 1024   | 1071   | 1114 |
| Scroll Compressor              |   |         |                                         |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| Compressors / Circuit          |   | n°      | 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    |      |
| Refrigerant                    |   | Type    | R410A                                   |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| Heat exchanger system side     |   |         |                                         |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| Exchanger                      |   | Type/n° | Plate/1                                 |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| hydraulic connections (In/Out) |   | Ø       | Please refer to technical documentation |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| Axial fans                     |   |         |                                         |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| Fan                            | ° | n°      | 4                                       | 4     | 4     | 4      | 6      | 6      | 6      | 8      | 8      | 8      | 10     | 10     | 12     | 12     | 12     | 14     | 14     |      |
| Air flow rate                  |   | m³/h    | 64000                                   | 64000 | 64000 | 64000  | 96000  | 96000  | 96000  | 128000 | 128000 | 128000 | 160000 | 160000 | 192000 | 192000 | 192000 | 224000 | 224000 |      |
| Fan                            | L | n°      | 4                                       | 4     | 6     | 6      | 6      | 6      | 8      | 8      | 10     | 10     | 12     | 14     | 14     | 14     | 16     | 16     | 16     |      |
| Air flow rate                  |   | m³/h    | 46000                                   | 46000 | 69000 | 69000  | 69000  | 69000  | 92000  | 92000  | 115000 | 115000 | 138000 | 161000 | 161000 | 161000 | 184000 | 184000 | 208000 |      |
| Fan                            | A | n°      | 4                                       | 4     | 6     | 6      | 6      | 6      | 8      | 8      | 10     | 10     | 12     | 14     | 14     | 14     | 16     | 16     | 16     |      |
| Air flow rate                  |   | m³/h    | 64000                                   | 64000 | 96000 | 96000  | 96000  | 96000  | 128000 | 128000 | 160000 | 160000 | 192000 | 224000 | 224000 | 224000 | 256000 | 256000 | 288000 |      |
| Fan                            | E | n°      | 6                                       | 6     | 6     | 8      | 8      | 8      | 10     | 12     | 12     | 14     | 14     | 16     | 16     | 18     | 20     | 20     | 20     |      |
| Air flow rate                  |   | m³/h    | 69000                                   | 69000 | 69000 | 92000  | 92000  | 92000  | 115000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 230000 |      |
| Fan                            | U | n°      | 6                                       | 6     | 6     | 8      | 8      | 8      | 10     | 12     | 12     | 14     | 14     | 16     | 16     | 18     | 20     | 20     | 20     |      |
| Air flow rate                  |   | m³/h    | 96000                                   | 96000 | 96000 | 128000 | 128000 | 128000 | 160000 | 192000 | 192000 | 224000 | 224000 | 256000 | 256000 | 288000 | 320000 | 320000 | 320000 |      |
| Fan                            | N | n°      | 8                                       | 8     | 8     | 10     | 10     | 10     | 12     | 14     | 14     | 16     | 16     | 18     | 18     | 20     | 22     | 22     | 22     |      |
| Air flow rate                  |   | m³/h    | 92000                                   | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 230000 | 253000 | 253000 | 253000 |      |
| Sound data (cooling)           |   |         |                                         |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| Sound power level              | ° | dB(A)   | 88                                      | 88    | 88    | 88     | 90     | 90     | 90     | 92     | 92     | 93     | 95     | 95     | 96     | 96     | 96     | 96     | 96     |      |
|                                | L | dB(A)   | 83                                      | 83    | 85    | 85     | 85     | 86     | 86     | 88     | 89     | 90     | 90     | 91     | 91     | 92     | 92     | 93     | 93     |      |
|                                | A | dB(A)   | 88                                      | 88    | 90    | 90     | 90     | 90     | 91     | 92     | 94     | 94     | 96     | 96     | 96     | 96     | 97     | 97     | 97     |      |
|                                | E | dB(A)   | 85                                      | 85    | 85    | 86     | 86     | 86     | 88     | 89     | 89     | 91     | 91     | 92     | 92     | 93     | 93     | 93     | 93     |      |
|                                | U | dB(A)   | 90                                      | 90    | 90    | 91     | 91     | 91     | 93     | 94     | 95     | 96     | 96     | 97     | 97     | 98     | 98     | 98     | 98     |      |
|                                | N | dB(A)   | 86                                      | 86    | 86    | 88     | 88     | 88     | 88     | 90     | 90     | 91     | 92     | 93     | 93     | 93     | 94     | 94     | 94     |      |

(2) Unit standar configuration without hydronic kit

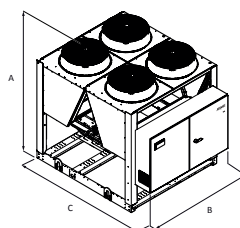
**Sound power** Aermec determines sound power values on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.

## Dimensions (mm)

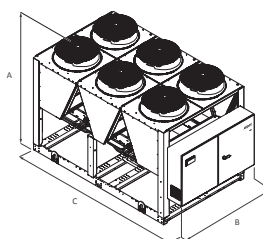
- (1) Unit with buffer tank  
NRB0800÷1100° (1)  
NRB0800÷0900 L/A (1)



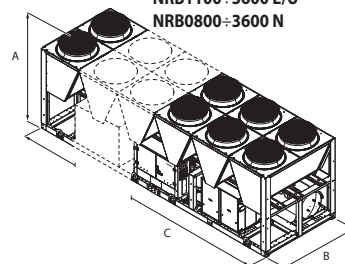
- NRB0800÷1100°  
NRB0800÷0900 L/A



- NRB1200÷1600°  
NRB1000÷1400 L/A  
NRB0800÷1000 E/U



- NRB1800÷3600°  
NRB1600÷3600 L/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  |
|--------------|---|------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| High         | A | Alls | mm   | 2450  | 2450  | 2450  | 2450  | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450  | 2450  | 2450  | 2450  | 2450  |
| Width        | B | Alls | mm   | 2200  | 2200  | 2200  | 2200  | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200  | 2200  | 2200  | 2200  | 2200  |
| Depth        | C | °    | mm   | 2780* | 2780* | 2780* | 2780* | 3970 | 3970 | 3970 | 4760 | 4760 | 4760 | 5950 | 5950  | 7140  | 7140  | 8330  | 8330  |
|              |   | L    | mm   | 2780* | 2780* | 3970  | 3970  | 3970 | 3970 | 4760 | 4760 | 5950 | 5950 | 7140 | 8330  | 8330  | 8330  | 9520  | 9520  |
|              |   | A    | mm   | 2780* | 2780* | 3970  | 3970  | 3970 | 3970 | 4760 | 4760 | 5950 | 5950 | 7140 | 8330  | 8330  | 8330  | 9520  | 9520  |
|              |   | E    | mm   | 3970  | 3970  | 3970  | 4760  | 4760 | 4760 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520  | 9520  | 10710 | 11900 | 11900 |
|              |   | U    | mm   | 3970  | 3970  | 3970  | 4760  | 4760 | 4760 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520  | 9520  | 10710 | 11900 | 11900 |
|              |   | N    | mm   | 4760  | 4760  | 4760  | 5950  | 5950 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 13090 | 13090 |
| Empty weight |   | °    | kg   | 2240  | 2280  | 2350  | 2390  | 2880 | 2930 | 2960 | 3580 | 3660 | 3740 | 4270 | 4500  | 5150  | 5390  | 5470  | 6150  |
|              |   | L    | kg   | 2260  | 2320  | 2800  | 2870  | 2910 | 2970 | 3490 | 3630 | 4110 | 4230 | 4670 | 5510  | 5760  | 5910  | 6390  | 6600  |
|              |   | A    | kg   | 2260  | 2320  | 2800  | 2870  | 2910 | 2970 | 3490 | 3630 | 4110 | 4230 | 4670 | 5510  | 5760  | 5910  | 6390  | 6600  |
|              |   | E    | kg   | 2720  | 2760  | 2840  | 3370  | 3440 | 3460 | 3940 | 4390 | 4510 | 5200 | 5280 | 5910  | 6160  | 6700  | 7140  | 7300  |
|              |   | U    | kg   | 2720  | 2760  | 2840  | 3370  | 3440 | 3460 | 3940 | 4390 | 4510 | 5200 | 5280 | 5910  | 6160  | 6700  | 7140  | 7300  |
|              |   | N    | kg   | 3220  | 3270  | 3340  | 3770  | 3840 | 3870 | 4290 | 4840 | 4970 | 5600 | 5680 | 6310  | 6560  | 7010  | 7540  | 7700  |

\* Depth unit Standard or with pump, for the unit with buffer tank the depth is 3970mm

Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

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