

NRB 0282H-0754H

Reversible air/water heat pump

Cooling capacity 52 ÷ 261 kW
Heating capacity 57 ÷ 193 kW



- High efficiency also at partial loads
- Components redundancy for greater safety
- Low refrigerant charge
- Compact dimensions



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.

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

VERSIONS

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

FEATURES

Operating field

Working at full load up to -15°C outside air temperature in winter, and up to 48°C in summer. Hot water production up to 55°C (for more information see the technical documentation).

Units mono or dual-circuit

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

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

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

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed or variable pumps also inverter.

- **VARIABLE FLOW RATE:** Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- 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:** the function can be activated with inverter fans or with DCPX which allows unit operation to be optimised at any operating point through continuous modulation of the fan speed. In addition, the use of inverter fans ensures an increase in energy efficiency at partial loads.
- **Night mode:** only in the non-silenced versions with the fan to be, inverter or phase-cut or with the DCPX accessory, a silenced operation profile can be set, which is useful, for example, at night for greater acoustic comfort, but always ensures performance even at peak load hours.

ACCESSORIES

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

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

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.

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.

SGD: Electronic expansion that enables connecting to the photovoltaic system and heat pumps to accumulate heat in the DHW tank or in the heating system during the photovoltaic production phase and release it at times when heating demand is highest.

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

GP: Anti-intrusion grid.

VT: Anti-vibration supports.

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.

C-TOUCH: 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.

AERCALM: The aim of the accessory installed in the electric box of the unit is to provide a clean contact for commanding - on the basis of the outside air temperature - a boiler to replace the heat pump. Aercalm must be requested at the time of ordering, as it is installed in the factory.

COMPATIBILITY WITH VMF SYSTEM

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

ACCESSORIES COMPATIBILITY

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °A | | | | | | | | | | | | | | | |
| | E,L | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| AERBACP | °A | | | | | | | | | | | | | | | |
| | E,L | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| AERLINK | °A | | | | | | | | | | | | | | | |
| | E,L | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| AERNET | °A | | | | | | | | | | | | | | | |
| | E,L | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MULTICHILLER_EVO | °A | | | | | | | | | | | | | | | |
| | E,L | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| PGD1 | °A | | | | | | | | | | | | | | | |
| | E,L | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| SGD | °A | | | | | | | | | | | | | | | |
| | E,L | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

Condensation control temperature

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | |
|----------------|---------|---------|---------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Fans: ° | | | | | | | | | | | | | | | | |
| ° | - | - | - | - | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | |
| A | - | - | - | - | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | |
| E,L | DCPX140 | DCPX140 | DCPX140 | DCPX140 | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | |
| Fans: M | | | | | | | | | | | | | | | | |
| E,L | DCPX141 | DCPX141 | DCPX141 | DCPX141 | - | - | - | - | - | - | - | - | - | - | - | |

Antivibration

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Integrated hydronic kit: 00, 11, 12, 13, 14, P1, P2, P3, P4 | | | | | | | | | | | | | | | | |
| ° | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 | |
| E | VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 | |
| L | VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 | |
| Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08, K1, K2, K3, K4, W1, W2, W3, W4 | | | | | | | | | | | | | | | | |
| ° | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 | |
| E | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 | |
| L | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 | |

Anti-intrusion grid

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ° | - | - | - | - | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| A | - | - | - | - | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| E | GP3 | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| L | GP3 | GP3 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) |

(1) x _ indicates the quantity to buy

The accessory cannot be fitted on the configurations indicated with -

Device for peak current reduction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | | |
|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| °A | - | - | - | - | - | - | DRENRB502 (1) | DRENRB552 (1) | DRENRB602 (1) | DRENRB604 (1) |
| E,L | DRENRB282 (1) | DRENRB302 (1) | DRENRB332 (1) | DRENRB352 (1) | DRENRB502 (1) | DRENRB552 (1) | DRENRB602 (1) | DRENRB604 (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

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| °A,E,L | DRENRB652 (1) | DRENRB654 (1) | DRENRB682 (1) | DRENRB702 (1) | DRENRB704 (1) | DRENRB752 (1) | DRENRB754 (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.

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

Power factor correction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| °A | - | - | - | - | RIF0502 | RIF0552 | RIF0602 | RIF0604 | RIF0652 | RIF0654 | RIF0682 | RIF0702 | RIF0704 | RIF0752 | RIF0754 |
| E,L | RIF0282 | RIF0302 | RIF0332 | RIF0352 | RIF0502 | RIF0552 | RIF0602 | RIF0604 | RIF0652 | RIF0654 | RIF0682 | RIF0702 | RIF0704 | RIF0752 | RIF0754 |

The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

Touch screen keyboard

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| °A,E,L | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH | C-TOUCH |

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

Clean contact for controlling a boiler.

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AERCALM | °A,E,L | | | | | | | | | | | | | | | |

CONFIGURATOR

| Field | Description |
|----------------|--|
| 1,2,3 | NRB |
| | Size |
| 4,5,6,7 | 0282, 0302, 0332, 0352, 0502, 0552, 0602, 0604, 0652, 0654, 0682, 0702, 0704, 0752, 0754 |
| 8 | Operating field |
| ° | Standard mechanic thermostatic valve (1) |
| X | Electronic thermostatic expansion valve (1) |
| Y | Double mechanical thermostat for low temperature (2) |
| Z | Low temperature electronic thermostatic valve (3) |
| 9 | Model |
| H | Heat pump |
| 10 | Heat recovery |
| ° | Without heat recovery |
| D | With desuperheater (4) |
| 11 | Version |
| ° | Standard |
| A | High efficiency |
| E | Silenced high efficiency (5) |
| L | Standard silenced (5) |
| 12 | Coils |
| ° | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pipes-Coated aluminium fins |
| 13 | Fans |
| ° | Standard |
| J | Inverter |
| M | Oversized (6) |
| 14 | Power supply |
| ° | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| | Without hydronic kit |
| 00 | Without hydronic kit |
| | Kit with storage tank and pump/s |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |

| Field | Description |
|-------|--|
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with pump/s and storage tank with holes for heaters |
| 05 | Storage tank with holes for heaters and single low head pump (7) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (7) |
| 07 | Storage tank with holes for heaters and single high head pump (7) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (7) |
| | Double loop |
| 09 | Double loop |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| I1 | Single low head pump + fixed speed inverter |
| I2 | Single low head pump with fixed speed inverter + stand-by pump |
| I3 | Single high head pump + fixed speed inverter |
| I4 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K1 | Single low head pump + storage tank + fixed speed inverter |
| K2 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and variable speed inverter pump/s |
| W1 | Single low head pump + Storage tank + variable speed inverter |
| W2 | Double low head pump + Storage tank + variable speed inverter |
| W3 | Single high head pump + Storage tank + variable speed inverter |
| W4 | Double high head pump + Storage tank + variable speed inverter |

- (1) Water produced from 4 °C ÷ 18 °C
- (2) Water produced from -10 °C ÷ 18 °C
- (3) Water produced from 4 °C ÷ 18 °C for ° version; -10 °C for the others versions
- (4) The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
- (5) The size 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"
- (6) Only for 0282 ÷ 0352 sizes
- (7) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS 12 °C / 7 °C - 40 °C / 45 °C

NRB H°

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 91,2 | 99,7 | 116,0 | 115,4 | 124,7 | 133,4 | 151,0 | 169,9 | 159,9 | 187,2 | 180,8 |
| Input power | kW | - | - | - | - | 33,5 | 37,5 | 42,6 | 46,2 | 47,8 | 51,2 | 51,7 | 60,0 | 58,0 | 69,8 | 65,7 |
| Cooling total input current | A | - | - | - | - | 61,0 | 67,0 | 74,0 | 83,0 | 83,0 | 92,0 | 90,0 | 102,0 | 105,0 | 116,0 | 116,0 |
| EER | W/W | - | - | - | - | 2,72 | 2,66 | 2,72 | 2,50 | 2,61 | 2,60 | 2,92 | 2,83 | 2,76 | 2,68 | 2,75 |
| Water flow rate system side | l/h | - | - | - | - | 15705 | 17177 | 19972 | 19876 | 21484 | 22988 | 25997 | 29247 | 27534 | 32236 | 31116 |
| Pressure drop system side | kPa | - | - | - | - | 35 | 42 | 37 | 44 | 43 | 44 | 50 | 61 | 65 | 74 | 59 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 96,8 | 105,8 | 123,7 | 129,0 | 136,1 | 143,4 | 158,7 | 178,4 | 171,8 | 198,7 | 188,6 |
| Input power | kW | - | - | - | - | 31,0 | 33,8 | 38,7 | 42,7 | 43,3 | 47,7 | 51,2 | 58,2 | 57,3 | 66,0 | 61,8 |
| Heating total input current | A | - | - | - | - | 56,0 | 60,0 | 68,0 | 77,0 | 76,0 | 87,0 | 89,0 | 99,0 | 104,0 | 110,0 | 111,0 |
| COP | W/W | - | - | - | - | 3,12 | 3,13 | 3,20 | 3,03 | 3,15 | 3,01 | 3,10 | 3,07 | 3,00 | 3,01 | 3,05 |
| Water flow rate system side | l/h | - | - | - | - | 16773 | 18334 | 21443 | 22371 | 23594 | 24863 | 27527 | 30948 | 29797 | 34460 | 32710 |
| Pressure drop system side | kPa | - | - | - | - | 40 | 48 | 43 | 56 | 52 | 52 | 56 | 69 | 76 | 84 | 65 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRB HL

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 52,1 | 59,2 | 67,3 | 78,1 | 88,5 | 96,5 | 111,5 | 110,4 | 119,3 | 126,4 | 147,0 | 164,5 | 154,9 | 180,5 | 174,0 |
| Input power | kW | 19,5 | 22,0 | 24,8 | 29,5 | 34,1 | 38,3 | 44,1 | 48,4 | 49,9 | 54,2 | 52,3 | 61,5 | 59,2 | 72,5 | 67,8 |
| Cooling total input current | A | 35,0 | 41,0 | 47,0 | 55,0 | 59,0 | 66,0 | 74,0 | 84,0 | 84,0 | 94,0 | 87,0 | 100,0 | 103,0 | 116,0 | 116,0 |
| EER | W/W | 2,67 | 2,69 | 2,71 | 2,65 | 2,60 | 2,52 | 2,53 | 2,28 | 2,39 | 2,33 | 2,81 | 2,68 | 2,62 | 2,49 | 2,57 |
| Water flow rate system side | l/h | 8974 | 10197 | 11584 | 13455 | 15234 | 16630 | 19200 | 19020 | 20540 | 21776 | 25312 | 28324 | 26677 | 31068 | 29958 |
| Pressure drop system side | kPa | 33 | 42 | 33 | 45 | 33 | 39 | 34 | 40 | 39 | 40 | 48 | 58 | 60 | 69 | 55 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 57,5 | 65,7 | 75,3 | 84,9 | 96,8 | 105,8 | 123,7 | 129,0 | 136,1 | 143,4 | 158,7 | 178,4 | 171,8 | 198,7 | 188,6 |
| Input power | kW | 17,6 | 20,7 | 23,1 | 26,9 | 31,0 | 33,8 | 38,7 | 42,6 | 43,3 | 47,7 | 51,2 | 58,2 | 57,3 | 66,0 | 61,8 |
| Heating total input current | A | 32,0 | 38,0 | 43,0 | 51,0 | 56,0 | 60,0 | 68,0 | 77,0 | 76,0 | 87,0 | 89,0 | 99,0 | 104,0 | 110,0 | 111,0 |
| COP | W/W | 3,27 | 3,17 | 3,26 | 3,16 | 3,12 | 3,13 | 3,20 | 3,03 | 3,15 | 3,01 | 3,10 | 3,07 | 3,00 | 3,01 | 3,05 |
| Water flow rate system side | l/h | 9973 | 11376 | 13056 | 14711 | 16773 | 18334 | 21443 | 22371 | 23594 | 24863 | 27527 | 30948 | 29797 | 34460 | 32710 |
| Pressure drop system side | kPa | 41 | 53 | 42 | 54 | 40 | 47 | 43 | 55 | 52 | 52 | 56 | 69 | 75 | 84 | 65 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRB HA

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 96,9 | 106,5 | 123,6 | 123,1 | 133,6 | 142,1 | 163,9 | 178,5 | 168,0 | 199,9 | 190,0 |
| Input power | kW | - | - | - | - | 32,3 | 36,1 | 39,5 | 43,3 | 45,0 | 47,2 | 50,7 | 57,0 | 55,4 | 66,5 | 62,8 |
| Cooling total input current | A | - | - | - | - | 57,0 | 61,0 | 68,0 | 73,0 | 74,0 | 79,0 | 85,0 | 94,0 | 99,0 | 102,0 | 106,0 |
| EER | W/W | - | - | - | - | 3,00 | 2,95 | 3,13 | 2,84 | 2,97 | 3,01 | 3,23 | 3,13 | 3,03 | 3,01 | 3,03 |
| Water flow rate system side | l/h | - | - | - | - | 16684 | 18331 | 21277 | 21205 | 23007 | 24462 | 28216 | 30726 | 28924 | 34406 | 32698 |
| Pressure drop system side | kPa | - | - | - | - | 26 | 31 | 32 | 38 | 38 | 50 | 44 | 52 | 50 | 56 | 54 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 100,3 | 110,9 | 124,3 | 129,7 | 138,2 | 149,4 | 164,1 | 179,7 | 172,3 | 200,6 | 190,0 |
| Input power | kW | - | - | - | - | 30,7 | 33,5 | 37,6 | 40,5 | 42,0 | 46,7 | 50,2 | 56,3 | 54,3 | 62,9 | 59,5 |
| Heating total input current | A | - | - | - | - | 56,0 | 60,0 | 67,0 | 73,0 | 74,0 | 86,0 | 87,0 | 96,0 | 99,0 | 106,0 | 107,0 |
| COP | W/W | - | - | - | - | 3,27 | 3,31 | 3,31 | 3,20 | 3,29 | 3,20 | 3,27 | 3,19 | 3,17 | 3,19 | 3,19 |
| Water flow rate system side | l/h | - | - | - | - | 17406 | 19230 | 21553 | 22489 | 23953 | 25914 | 28469 | 31171 | 29889 | 34800 | 32956 |
| Pressure drop system side | kPa | - | - | - | - | 28 | 34 | 33 | 42 | 41 | 56 | 45 | 54 | 54 | 57 | 55 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRB HE

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 55,4 | 62,1 | 70,0 | 81,2 | 94,0 | 103,0 | 119,1 | 117,6 | 128,0 | 138,3 | 159,4 | 172,5 | 162,3 | 191,7 | 182,6 |
| Input power | kW | 18,5 | 21,0 | 23,7 | 28,3 | 32,8 | 36,9 | 40,7 | 44,7 | 46,9 | 47,7 | 51,4 | 58,5 | 56,7 | 69,3 | 64,9 |
| Cooling total input current | A | 32,0 | 37,0 | 42,0 | 47,0 | 56,0 | 61,0 | 68,0 | 74,0 | 75,0 | 76,0 | 83,0 | 93,0 | 98,0 | 102,0 | 106,0 |
| EER | W/W | 3,00 | 2,96 | 2,95 | 2,86 | 2,86 | 2,79 | 2,92 | 2,63 | 2,73 | 2,90 | 3,10 | 2,95 | 2,87 | 2,77 | 2,81 |
| Water flow rate system side | l/h | 9530 | 10696 | 12052 | 13983 | 16181 | 17722 | 20498 | 20255 | 22037 | 23819 | 27431 | 29692 | 27947 | 33000 | 31425 |
| Pressure drop system side | kPa | 23 | 29 | 26 | 35 | 24 | 29 | 30 | 34 | 34 | 48 | 41 | 49 | 47 | 51 | 50 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 59,0 | 68,2 | 76,6 | 87,1 | 100,3 | 110,9 | 124,3 | 129,7 | 138,2 | 149,4 | 164,1 | 179,7 | 172,3 | 200,6 | 190,0 |
| Input power | kW | 17,5 | 20,3 | 22,9 | 26,4 | 30,7 | 33,5 | 37,6 | 40,5 | 42,0 | 46,7 | 50,2 | 56,3 | 54,3 | 62,9 | 59,5 |
| Heating total input current | A | 33,0 | 38,0 | 44,0 | 50,0 | 56,0 | 60,0 | 67,0 | 73,0 | 74,0 | 86,0 | 87,0 | 96,0 | 99,0 | 106,0 | 107,0 |
| COP | W/W | 3,37 | 3,36 | 3,35 | 3,30 | 3,27 | 3,31 | 3,31 | 3,20 | 3,29 | 3,20 | 3,27 | 3,19 | 3,17 | 3,19 | 3,19 |
| Water flow rate system side | l/h | 10227 | 11816 | 13289 | 15100 | 17406 | 19230 | 21553 | 22489 | 23953 | 25914 | 28469 | 31171 | 29889 | 34800 | 32956 |
| Pressure drop system side | kPa | 26 | 35 | 31 | 41 | 28 | 34 | 33 | 42 | 41 | 56 | 45 | 54 | 54 | 57 | 55 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12 °C / 7 °C; outside air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

PERFORMANCE SPECIFICATIONS 23 °C / 18 °C - 30 °C / 35 °C

NRB H°

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 122,6 | 133,3 | 155,1 | 154,9 | 165,6 | 183,4 | 203,5 | 227,9 | 218,9 | 248,3 | 247,3 |
| Input power | kW | - | - | - | - | 36,3 | 41,0 | 46,5 | 50,2 | 52,2 | 55,9 | 55,8 | 65,6 | 62,6 | 77,0 | 72,2 |
| Cooling total input current | A | - | - | - | - | 65,0 | 72,0 | 80,0 | 89,0 | 90,0 | 99,0 | 96,0 | 110,0 | 112,0 | 126,0 | 126,0 |
| EER | W/W | - | - | - | - | 3,38 | 3,25 | 3,33 | 3,08 | 3,17 | 3,28 | 3,65 | 3,48 | 3,50 | 3,23 | 3,42 |
| Water flow rate system side | l/h | - | - | - | - | 21190 | 23054 | 26805 | 26775 | 28622 | 31700 | 35175 | 39395 | 37837 | 42931 | 42743 |
| Pressure drop system side | kPa | - | - | - | - | 63 | 75 | 67 | 81 | 76 | 84 | 92 | 111 | 123 | 131 | 112 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 98,8 | 107,2 | 127,4 | 132,8 | 139,6 | 146,7 | 163,5 | 182,9 | 176,8 | 201,7 | 192,4 |
| Input power | kW | - | - | - | - | 25,4 | 27,7 | 31,8 | 34,3 | 35,5 | 38,4 | 42,0 | 47,3 | 46,5 | 53,2 | 50,4 |
| Heating total input current | A | - | - | - | - | 46,0 | 49,0 | 56,0 | 61,0 | 62,0 | 70,0 | 72,0 | 80,0 | 84,0 | 88,0 | 90,0 |
| COP | W/W | - | - | - | - | 3,89 | 3,87 | 4,01 | 3,87 | 3,93 | 3,82 | 3,90 | 3,87 | 3,80 | 3,79 | 3,82 |
| Water flow rate system side | l/h | - | - | - | - | 17058 | 18508 | 21998 | 22936 | 24118 | 25357 | 28248 | 31616 | 30551 | 34851 | 33261 |
| Pressure drop system side | kPa | - | - | - | - | 41 | 49 | 45 | 59 | 54 | 54 | 59 | 72 | 80 | 86 | 68 |

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

NRB HL

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 69,6 | 79,3 | 92,2 | 105,6 | 118,1 | 128,2 | 147,6 | 146,8 | 156,6 | 170,9 | 196,8 | 218,8 | 210,1 | 237,3 | 235,3 |
| Input power | kW | 21,9 | 24,2 | 27,3 | 32,5 | 37,3 | 42,4 | 48,9 | 53,8 | 55,5 | 60,7 | 57,2 | 68,1 | 64,8 | 81,0 | 75,7 |
| Cooling total input current | A | 39,0 | 44,0 | 51,0 | 60,0 | 64,0 | 72,0 | 81,0 | 92,0 | 93,0 | 104,0 | 94,0 | 110,0 | 111,0 | 128,0 | 128,0 |
| EER | W/W | 3,18 | 3,27 | 3,37 | 3,25 | 3,17 | 3,02 | 3,02 | 2,73 | 2,82 | 2,82 | 3,44 | 3,22 | 3,24 | 2,93 | 3,11 |
| Water flow rate system side | l/h | 12041 | 13740 | 15960 | 18270 | 20427 | 22163 | 25508 | 25376 | 27064 | 29542 | 34006 | 37824 | 36327 | 41017 | 40668 |
| Pressure drop system side | kPa | 59 | 77 | 63 | 83 | 59 | 69 | 61 | 70 | 68 | 73 | 86 | 103 | 112 | 120 | 101 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 58,9 | 66,7 | 77,1 | 86,8 | 98,8 | 107,2 | 127,4 | 132,8 | 139,6 | 146,7 | 163,5 | 182,9 | 176,8 | 201,7 | 192,4 |
| Input power | kW | 13,9 | 16,5 | 18,4 | 21,5 | 25,4 | 27,7 | 31,8 | 34,3 | 35,5 | 38,4 | 42,0 | 47,3 | 46,5 | 53,2 | 50,4 |
| Heating total input current | A | 25,0 | 30,0 | 34,0 | 40,0 | 46,0 | 49,0 | 56,0 | 61,0 | 62,0 | 70,0 | 72,0 | 80,0 | 84,0 | 88,0 | 90,0 |
| COP | W/W | 4,25 | 4,06 | 4,19 | 4,03 | 3,89 | 3,87 | 4,01 | 3,87 | 3,93 | 3,82 | 3,90 | 3,87 | 3,80 | 3,79 | 3,82 |
| Water flow rate system side | l/h | 10168 | 11516 | 13317 | 14972 | 17058 | 18508 | 21998 | 22936 | 24118 | 25357 | 28248 | 31616 | 30551 | 34851 | 33261 |
| Pressure drop system side | kPa | 42 | 54 | 44 | 56 | 41 | 48 | 45 | 57 | 54 | 54 | 59 | 72 | 79 | 86 | 68 |

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C

(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

NRB HA

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 131,3 | 143,6 | 166,5 | 170,4 | 178,7 | 198,2 | 222,3 | 241,2 | 231,6 | 268,1 | 261,3 |
| Input power | kW | - | - | - | - | 34,9 | 39,4 | 42,9 | 47,2 | 49,0 | 50,3 | 54,8 | 62,4 | 59,6 | 73,6 | 68,8 |
| Cooling total input current | A | - | - | - | - | 61,0 | 66,0 | 74,0 | 79,0 | 80,0 | 82,0 | 91,0 | 101,0 | 105,0 | 112,0 | 115,0 |
| EER | W/W | - | - | - | - | 3,77 | 3,65 | 3,88 | 3,61 | 3,65 | 3,94 | 4,06 | 3,86 | 3,88 | 3,65 | 3,80 |
| Water flow rate system side | l/h | - | - | - | - | 22699 | 24821 | 28771 | 29452 | 30874 | 34255 | 38412 | 41683 | 40019 | 46336 | 45163 |
| Pressure drop system side | kPa | - | - | - | - | 48 | 57 | 59 | 73 | 68 | 98 | 81 | 97 | 96 | 102 | 103 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 104,2 | 114,6 | 128,1 | 133,6 | 141,8 | 154,4 | 169,0 | 184,0 | 177,3 | 203,5 | 193,6 |
| Input power | kW | - | - | - | - | 25,2 | 27,6 | 30,9 | 32,6 | 34,4 | 38,0 | 41,2 | 45,8 | 44,1 | 50,7 | 48,5 |
| Heating total input current | A | - | - | - | - | 46,0 | 49,0 | 54,0 | 59,0 | 60,0 | 69,0 | 71,0 | 78,0 | 80,0 | 85,0 | 87,0 |
| COP | W/W | - | - | - | - | 4,14 | 4,16 | 4,15 | 4,10 | 4,12 | 4,07 | 4,10 | 4,02 | 4,02 | 4,01 | 3,99 |
| Water flow rate system side | l/h | - | - | - | - | 18004 | 19795 | 22128 | 23077 | 24492 | 26674 | 29206 | 31801 | 30649 | 35173 | 33469 |
| Pressure drop system side | kPa | - | - | - | - | 30 | 36 | 35 | 45 | 43 | 60 | 47 | 56 | 56 | 58 | 57 |

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C
 (2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

NRB HE

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 76,4 | 85,7 | 96,8 | 111,4 | 126,2 | 137,5 | 158,5 | 160,4 | 168,9 | 191,5 | 214,3 | 230,5 | 221,2 | 253,2 | 247,4 |
| Input power | kW | 20,4 | 23,1 | 25,7 | 31,2 | 35,9 | 41,0 | 45,2 | 49,8 | 52,2 | 51,4 | 56,4 | 65,1 | 62,1 | 78,2 | 72,6 |
| Cooling total input current | A | 35,0 | 40,0 | 45,0 | 51,0 | 61,0 | 66,0 | 75,0 | 81,0 | 82,0 | 81,0 | 90,0 | 102,0 | 106,0 | 114,0 | 117,0 |
| EER | W/W | 3,74 | 3,72 | 3,77 | 3,57 | 3,51 | 3,36 | 3,51 | 3,22 | 3,24 | 3,72 | 3,80 | 3,54 | 3,56 | 3,24 | 3,41 |
| Water flow rate system side | l/h | 13219 | 14836 | 16740 | 19268 | 21829 | 23767 | 27392 | 27721 | 29185 | 33098 | 37025 | 39827 | 38232 | 43759 | 42750 |
| Pressure drop system side | kPa | 43 | 55 | 50 | 66 | 44 | 52 | 53 | 64 | 60 | 92 | 75 | 88 | 88 | 91 | 92 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 60,5 | 70,2 | 78,9 | 90,4 | 104,2 | 114,6 | 128,1 | 133,6 | 141,8 | 154,4 | 169,0 | 184,0 | 177,3 | 203,5 | 193,6 |
| Input power | kW | 13,8 | 16,1 | 18,2 | 21,1 | 25,2 | 27,6 | 30,9 | 32,6 | 34,4 | 38,0 | 41,2 | 45,8 | 44,1 | 50,7 | 48,5 |
| Heating total input current | A | 26,0 | 30,0 | 35,0 | 40,0 | 46,0 | 49,0 | 54,0 | 59,0 | 60,0 | 69,0 | 71,0 | 78,0 | 80,0 | 85,0 | 87,0 |
| COP | W/W | 4,38 | 4,36 | 4,34 | 4,28 | 4,14 | 4,16 | 4,15 | 4,10 | 4,12 | 4,07 | 4,10 | 4,02 | 4,02 | 4,01 | 3,99 |
| Water flow rate system side | l/h | 10456 | 12125 | 13636 | 15617 | 18004 | 19795 | 22128 | 23077 | 24492 | 26674 | 29206 | 31801 | 30649 | 35173 | 33469 |
| Pressure drop system side | kPa | 27 | 37 | 33 | 43 | 30 | 36 | 35 | 45 | 43 | 60 | 47 | 56 | 56 | 58 | 57 |

(1) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C
 (2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | |
|--|---|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity with low leaving water temp (UE n° 2016/2281) | | | | | | | | | | | | | | | | | |
| SEER | ° | W/W | - | - | - | - | 3,92 | 3,83 | 3,99 | 3,70 | 3,91 | 3,67 | 4,14 | 3,97 | 3,73 | 3,88 | 3,76 |
| | A | W/W | - | - | - | - | 4,21 | 4,14 | 4,39 | 3,93 | 4,20 | 3,92 | 4,38 | 4,27 | 3,99 | 4,24 | 4,06 |
| | E | W/W | 4,28 | 4,32 | 4,22 | 4,24 | 4,17 | 4,10 | 4,33 | 3,86 | 4,12 | 3,93 | 4,35 | 4,21 | 3,98 | 4,16 | 3,92 |
| | L | W/W | 4,10 | 4,11 | 4,11 | 4,00 | 3,88 | 3,83 | 3,93 | 3,68 | 3,89 | 3,64 | 4,08 | 3,89 | 3,70 | 3,81 | 3,71 |
| ηsc | ° | % | - | - | - | - | 154,00 | 150,00 | 157,00 | 145,00 | 153,00 | 144,00 | 163,00 | 156,00 | 146,00 | 152,00 | 147,00 |
| | A | % | - | - | - | - | 165,00 | 163,00 | 173,00 | 154,00 | 165,00 | 154,00 | 172,00 | 168,00 | 157,00 | 167,00 | 160,00 |
| | E | % | 168,00 | 170,00 | 166,00 | 167,00 | 164,00 | 161,00 | 170,00 | 151,00 | 162,00 | 154,00 | 171,00 | 165,00 | 156,00 | 163,00 | 154,00 |
| | L | % | 161,00 | 161,00 | 161,00 | 157,00 | 152,00 | 150,00 | 154,00 | 144,00 | 153,00 | 143,00 | 160,00 | 153,00 | 145,00 | 149,00 | 145,00 |
| UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 400 kW (1) | | | | | | | | | | | | | | | | | |
| Pdesignh | ° | kW | - | - | - | - | 88,80 | 97,30 | 112,20 | 116,80 | 124,50 | 129,90 | 144,90 | 162,80 | 157,50 | 182,70 | 172,10 |
| | A | kW | - | - | - | - | 90,20 | 99,60 | 112,20 | 116,80 | 125,80 | 135,00 | 149,00 | 164,10 | 157,00 | 183,30 | 173,60 |
| | E | kW | 53,46 | 53,46 | 53,46 | 78,80 | 90,20 | 99,60 | 112,20 | 116,80 | 125,80 | 135,00 | 149,00 | 164,10 | 157,00 | 183,30 | 173,60 |
| | L | kW | 52,20 | 60,22 | 68,44 | 78,20 | 88,80 | 97,30 | 112,20 | 116,80 | 124,50 | 129,90 | 144,90 | 162,80 | 157,50 | 182,70 | 172,10 |
| ηsh | ° | % | - | - | - | - | 136 | 140 | 140 | 130 | 140 | 130 | 134 | 137 | 126 | 138 | 128 |
| | A | % | - | - | - | - | 138 | 143 | 143 | 133 | 143 | 132 | 140 | 141 | 128 | 142 | 133 |
| | E | % | 158 | 158 | 158 | 153 | 138 | 143 | 143 | 133 | 143 | 132 | 140 | 141 | 128 | 142 | 133 |
| | L | % | 156 | 153 | 152 | 150 | 136 | 140 | 140 | 130 | 140 | 130 | 134 | 137 | 126 | 138 | 128 |
| SCOP | ° | W/W | - | - | - | - | 3,47 | 3,56 | 3,58 | 3,34 | 3,58 | 3,31 | 3,43 | 3,51 | 3,23 | 3,54 | 3,29 |
| | A | W/W | - | - | - | - | 3,53 | 3,65 | 3,66 | 3,40 | 3,65 | 3,38 | 3,57 | 3,61 | 3,29 | 3,63 | 3,40 |
| | E | W/W | 4,03 | 4,04 | 4,03 | 3,89 | 3,54 | 3,65 | 3,65 | 3,40 | 3,66 | 3,38 | 3,57 | 3,61 | 3,29 | 3,62 | 3,40 |
| | L | W/W | 3,98 | 3,89 | 3,88 | 3,83 | 3,47 | 3,56 | 3,59 | 3,34 | 3,58 | 3,31 | 3,43 | 3,51 | 3,23 | 3,54 | 3,29 |

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

ELECTRIC DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | ° | A | - | - | - | - | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 113,5 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| | A | A | - | - | - | - | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 117,7 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| | E | A | 42,6 | 49,2 | 56,9 | 65,3 | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 117,7 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| | L | A | 41,5 | 49,2 | 55,8 | 65,3 | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 113,5 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| Peak current (LRA) | ° | A | - | - | - | - | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 227,2 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |
| | A | A | - | - | - | - | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 231,5 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |
| | E | A | 148,0 | 163,0 | 170,6 | 208,9 | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 231,5 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |
| | L | A | 146,9 | 163,0 | 169,5 | 208,9 | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 227,2 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |

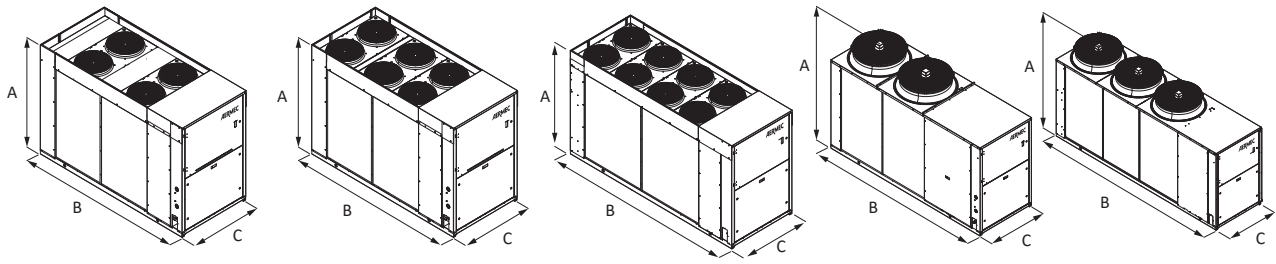
GENERAL TECHNICAL DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|--------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | |
| Type | °A,E,L | type | Scroll | | | | | | | | | | | | | | |
| Compressor regulation | °A,E,L | Type | On-Off | | | | | | | | | | | | | | |
| Number | °A | no. | - | - | - | - | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 |
| | E,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 |
| Circuits | °A | no. | - | - | - | - | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| | E,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| Refrigerant | °A,E,L | type | R410A | | | | | | | | | | | | | | |
| Refrigerant charge (1) | ° | kg | - | - | - | - | 12,2 | 12,2 | 16,8 | 17,6 | 16,8 | 20,0 | 24,5 | 24,5 | 23,0 | 24,5 | 23,0 |
| | A | kg | - | - | - | - | 15,9 | 15,8 | 17,8 | 19,8 | 18,4 | 21,6 | 28,6 | 28,6 | 27,0 | 28,6 | 27,0 |
| | E | kg | 9,1 | 10,7 | 11,1 | 12,5 | 15,9 | 15,8 | 17,8 | 19,8 | 18,4 | 21,6 | 28,6 | 28,6 | 27,0 | 28,6 | 27,0 |
| | L | kg | 8,8 | 9,4 | 10,3 | 11,0 | 12,2 | 12,2 | 16,8 | 17,6 | 16,8 | 20,0 | 24,5 | 24,5 | 23,0 | 24,5 | 23,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | |
| Type | °A,E,L | type | Braze plate | | | | | | | | | | | | | | |
| Number | °A | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | E,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °A,E,L | Type | Grooved joints | | | | | | | | | | | | | | |
| Sizes (in/out) | °A,E,L | Ø | 2" 1/2 | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | |
| Type | °A,E,L | type | Axial | | | | | | | | | | | | | | |
| Number | ° | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | A | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | E | no. | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | L | no. | 4 | 6 | 6 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| Air flow rate | ° | m³/h | - | - | - | - | 42785 | 42785 | 41094 | 41065 | 41094 | 39542 | 62015 | 61936 | 61936 | 61936 | 61936 |
| | A | m³/h | - | - | - | - | 41080 | 41080 | 39461 | 39461 | 39461 | 59684 | 59701 | 59684 | 59684 | 59684 | 59684 |
| | E | m³/h | 21230 | 22746 | 28176 | 25787 | 31149 | 31149 | 29855 | 29855 | 29855 | 47085 | 45202 | 45187 | 45187 | 45187 | 45187 |
| | L | m³/h | 15574 | 21226 | 22732 | 28156 | 32650 | 32650 | 31613 | 31169 | 31161 | 29823 | 47087 | 47125 | 47125 | 47125 | 47125 |
| Sound data calculated in cooling mode (2) | | | | | | | | | | | | | | | | | |
| Sound power level | ° | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 86,5 | 87,3 | 86,5 | 88,8 | 88,9 | 88,2 | 89,4 | 89,5 |
| | A | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 86,5 | 87,3 | 88,2 | 88,8 | 88,9 | 88,2 | 89,4 | 89,5 |
| | E | dB(A) | 73,0 | 73,5 | 74,3 | 74,5 | 82,2 | 82,9 | 83,3 | 76,7 | 83,7 | 77,8 | 84,9 | 85,0 | 78,0 | 86,1 | 84,0 |
| | L | dB(A) | 72,4 | 73,5 | 73,9 | 74,5 | 82,2 | 82,9 | 83,3 | 76,7 | 83,7 | 77,1 | 84,9 | 85,0 | 78,0 | 86,1 | 84,0 |
| Sound pressure level (10 m) | ° | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 54,6 | 55,4 | 54,6 | 56,8 | 56,9 | 56,2 | 57,4 | 57,5 |
| | A | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 54,6 | 55,4 | 56,2 | 56,8 | 56,9 | 56,2 | 57,4 | 57,5 |
| | E | dB(A) | 41,3 | 41,7 | 42,5 | 42,7 | 50,3 | 51,0 | 51,4 | 44,8 | 51,8 | 45,8 | 52,9 | 53,1 | 46,0 | 54,1 | 52,0 |
| | L | dB(A) | 40,7 | 41,7 | 42,1 | 42,7 | 50,3 | 51,0 | 51,4 | 44,8 | 51,8 | 45,3 | 52,9 | 53,1 | 46,0 | 54,1 | 52,0 |

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) 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



| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | |
| A | °A | mm | - | - | - | - | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| | E,L | mm | 1680 | 1680 | 1680 | 1680 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| B | ° | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 |
| | A | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 |
| | E | mm | 2450 | 2950 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 |
| C | L | mm | 2450 | 2450 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 |
| | °A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | E,L | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |

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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