



















NRK 0200-0700

Reversible air/water heat pump

Cooling capacity 35,5 ÷ 148 kW Heating capacity 42,31 ÷ 175 kW



- Water produced up to +65 °C
- Heating operations with external temperatures down to -20 °C
- Optimized for operation in heating mode
- Night mode





DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users.

It's optimised for use in heating mode, and can be combined not only with low-temperature emission systems such as floor heating or fan coils, but also conventional radiators.

Equipped with scroll compressors, axial fans, external coil with aluminium fins, plate heat exchanger on the side.

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

VERSIONS

A High efficiency **E** Silenced high efficiency

FEATURES

Operating field

Working at full load up to -20 °C outside air temperature in winter, and up to 48 °C in summer. Hot water production up to 65 °C.

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to facilitate installation.

Components

Water filter, flow switch, low and high pressure transducers as standard supply on all units.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

CONTROL

pCO⁵ control type

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

Adjustment includes complete management of the alarms and their

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the inte-gral proportional logic, based on the water output temperature.

ACCESSORIES

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

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

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

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.

GP: Anti-intrusion grid.

VT: Antivibration 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.

PRM1: It is a manual pressure switch electrically wired in series with the existing automatic high pressure switch on the compressor discharge pipe.

COMPATIBILITY WITH VMF SYSTEM

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

ACCESSORIES COMPATIBILITY

| Model | Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|
| AFD40FD1 | A | | | | | • | • | • | • | • | • |
| AER485P1 | E | • | | • | • | • | | • | • | • | |
| AFDNET | A | | | | | | | • | • | | |
| AERNET | E | • | • | • | • | • | • | • | • | • | • |
| C TOUCH | A | | | | | | | • | • | | |
| C-TOUCH | E | • | • | • | • | • | • | • | • | • | • |
| MULTICUULED EVO | A | | | | | | | • | • | | |
| MULTICHILLER_EVO | E | • | | • | | | | • | • | | |
| DCD1 | A | | | | | • | | • | • | • | • |
| PGD1 | F | • | | | | | | • | | | |

GP: anti-intrusion grid

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | - | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| E | GP3 | GP3 | GP4 | GP4 | GP2 x 2 (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-

VT: Antivibration

| 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dronic kit: 00 | | | | | | | | | |
| - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| dronic kit: 01, 02, | , 03, 04, 05, 06, 07, | 08 | | | | | | | |
| - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| Ironic kit: P1, P2 | , P3, P4 | | | | | | | | |
| - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| | dronic kit: 00 - VT17 dronic kit: 01, 02, - VT13 dronic kit: P1, P2, | dronic kit: 00 VT17 VT17 dronic kit: 01, 02, 03, 04, 05, 06, 07, VT13 VT13 dronic kit: P1, P2, P3, P4 - | ronic kit: 00 | ronic kit: 00 | Control Cont | | | | Profice Prof |

The accessory cannot be fitted on the configurations indicated with -

DRE: Device for peak current reduction

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| A | - | - | - | - | DRE351 (1) | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) |
| E | DRE201 (1) | DRE281 (1) | DRE301 (1) | DRE331 (1) | DRE351 (1) | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 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

RIF: Power factor correction

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | - | - | - | - | RIF65 | RIF58 | RIF59 | RIF60 | RIF61 | RIF61 |
| E | RIF55 | RIF56 | RIF54 | RIF57 | RIF65 | RIF58 | RIF59 | RIF60 | RIF61 | RIF61 |

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

PRM1: Manually reset pressure switch

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|------|------|------|------|------|------|------|------|------|------|
| Α | - | - | - | - | PRM1 | PRM1 | PRM1 | PRM1 | PRM1 | PRM1 |
| E | PRM1 |

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

CONFIGURATOR

| Field | Description |
|---------|------------------------------------------------------------------------|
| 1,2,3 | NRK |
| 4,5,6,7 | Size (1) |
| 4,3,0,7 | 0200, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700 |
| 8 | Operating field |
| • | Standard mechanic thermostatic valve (2) |
| 9 | Model |
| Н | Heat pump |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| 11 | Version |
| A | High efficiency |
| E | Silenced high efficiency |
| 12 | Coils |
| 0 | Copper-aluminium |
| R | Copper-copper |
| S | Copper-Tinned copper |
| ٧ | Copper-painted alumimium |
| 13 | Fans |
| 0 | Standard (4) |
| J | Inverter (5) |
| M | Oversized (6) |
| 14 | Power supply |
| 0 | 400V 3N ~ 50Hz |
| 15,16 | Integrated hydronic kit (7) |
| 00 | Without hydronic kit |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| 05 | Storage tank with holes for heaters and single low head pump |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump |
| 07 | Storage tank with holes for heaters and single high head pump |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |

- (1) The size 0200÷0330 only available in low noise version "E".

 (2) Water produced up to +4 °C

 (3) The desuperheater must be isolated in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.

 (4) As standard in sizes form 0350÷0700.

 (5) Standard for size 0200÷0330, without useful static pressure. Option for size 0350÷0700 with useful static pressure.

 (6) Option available only for size 0200+0330.

 (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

NRK - A / 12/7 °C - 40/45 °C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 75,4 | 88,8 | 101,6 | 117,4 | 133,4 | 148,1 |
| Input power | kW | - | - | - | - | 25,4 | 29,5 | 34,4 | 41,0 | 45,0 | 52,6 |
| Cooling total input current | A | - | - | - | - | 55,0 | 61,0 | 66,0 | 72,0 | 87,0 | 107,0 |
| EER | W/W | - | - | - | - | 2,97 | 3,01 | 2,95 | 2,86 | 2,97 | 2,82 |
| Water flow rate system side | l/h | - | - | - | - | 12983 | 15278 | 17488 | 20211 | 22975 | 25516 |
| Pressure drop system side | kPa | - | - | - | - | 23 | 26 | 32 | 28 | 34 | 42 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 87,9 | 103,9 | 118,9 | 136,6 | 155,6 | 174,4 |
| Input power | kW | - | - | - | - | 25,5 | 30,2 | 34,7 | 39,9 | 45,6 | 51,7 |
| Heating total input current | A | - | - | - | - | 54,0 | 59,0 | 64,0 | 70,0 | 85,0 | 106,0 |
| COP | W/W | - | - | - | - | 3,45 | 3,44 | 3,42 | 3,42 | 3,41 | 3,37 |
| Water flow rate system side | l/h | - | - | - | - | 15236 | 18010 | 20602 | 23680 | 26988 | 30254 |
| Pressure drop system side | kPa | - | - | - | - | 32 | 36 | 44 | 37 | 45 | 57 |

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

NRK - E / 12/7 °C - 40/45 °C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | |
| Cooling capacity | kW | 35,6 | 50,4 | 59,5 | 66,1 | 74,4 | 87,4 | 99,8 | 114,5 | 130,8 | 145,3 |
| Input power | kW | 11,7 | 17,4 | 19,5 | 22,3 | 27,6 | 32,4 | 38,1 | 45,8 | 49,5 | 58,1 |
| Cooling total input current | A | 28,0 | 38,0 | 42,0 | 49,0 | 60,0 | 67,0 | 73,0 | 72,0 | 95,0 | 119,0 |
| EER | W/W | 3,05 | 2,90 | 3,05 | 2,96 | 2,69 | 2,70 | 2,62 | 2,50 | 2,64 | 2,50 |
| Water flow rate system side | l/h | 6131 | 8670 | 10235 | 11379 | 12801 | 15035 | 17175 | 19713 | 22512 | 25033 |
| Pressure drop system side | kPa | 18 | 17 | 23 | 19 | 22 | 25 | 30 | 27 | 32 | 41 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 42,2 | 59,7 | 69,4 | 78,2 | 87,9 | 103,9 | 118,9 | 136,6 | 155,6 | 174,4 |
| Input power | kW | 12,0 | 17,0 | 19,9 | 22,4 | 25,5 | 30,2 | 34,7 | 39,9 | 45,6 | 51,7 |
| COP | W/W | 3,50 | 3,50 | 3,49 | 3,49 | 3,45 | 3,44 | 3,42 | 3,42 | 3,41 | 3,37 |
| Heating total input current | A | 24,0 | 34,0 | 38,0 | 44,0 | 54,0 | 59,0 | 64,0 | 70,0 | 85,0 | 106,0 |
| Water flow rate system side | l/h | 7318 | 10355 | 12032 | 13569 | 15236 | 18010 | 20602 | 23680 | 26988 | 30254 |
| Pressure drop system side | kPa | 24 | 22 | 30 | 25 | 32 | 36 | 44 | 37 | 45 | 57 |

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

NRK - A / 23/18 °C - 30/35 °C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 93,2 | 108,2 | 122,7 | 143,0 | 165,0 | 181,0 |
| Input power | kW | - | - | - | - | 26,4 | 30,7 | 35,9 | 43,3 | 47,0 | 55,1 |
| Cooling total input current | A | - | - | - | - | 57,0 | 63,0 | 69,0 | 75,0 | 90,0 | 112,0 |
| EER | W/W | - | - | - | - | 3,54 | 3,53 | 3,42 | 3,30 | 3,51 | 3,28 |
| Water flow rate system side | l/h | - | - | - | - | 16111 | 18705 | 21231 | 24719 | 28513 | 31266 |
| Pressure drop system side | kPa | - | - | - | - | 35 | 39 | 47 | 42 | 52 | 63 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 86,4 | 101,5 | 114,6 | 132,6 | 150,2 | 170,5 |
| Input power | kW | - | - | - | - | 20,6 | 24,5 | 27,8 | 31,7 | 37,0 | 41,9 |
| Heating total input current | A | - | - | - | - | 44,0 | 48,0 | 51,0 | 55,0 | 68,0 | 85,0 |
| COP | W/W | - | - | - | - | 4,19 | 4,15 | 4,13 | 4,19 | 4,06 | 4,06 |
| Water flow rate system side | l/h | - | - | - | - | 14931 | 17533 | 19787 | 22919 | 25938 | 29467 |
| Pressure drop system side | kPa | - | - | - | - | 31 | 34 | 41 | 35 | 42 | 54 |

NRK-E/23/18°C-30/35°C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 44,2 | 61,5 | 72,1 | 80,9 | 91,9 | 106,5 | 120,6 | 139,5 | 161,7 | 177,5 |
| Input power | kW | 12,2 | 18,2 | 20,4 | 23,5 | 28,7 | 33,6 | 39,7 | 48,3 | 51,7 | 60,8 |
| Cooling total input current | А | 29,0 | 40,0 | 44,0 | 51,0 | 62,0 | 69,0 | 76,0 | 75,0 | 99,0 | 124,0 |
| EER | W/W | 3,64 | 3,37 | 3,53 | 3,44 | 3,20 | 3,16 | 3,04 | 2,89 | 3,13 | 2,92 |
| Water flow rate system side | l/h | 7643 | 10631 | 12470 | 13977 | 15886 | 18408 | 20850 | 24110 | 27939 | 30673 |
| Pressure drop system side | kPa | 28 | 26 | 34 | 29 | 34 | 37 | 44 | 40 | 49 | 62 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 41,4 | 57,2 | 67,2 | 75,7 | 86,4 | 101,5 | 114,6 | 132,6 | 150,2 | 170,5 |
| Input power | kW | 9,4 | 13,3 | 15,8 | 18,1 | 20,6 | 24,5 | 27,8 | 31,7 | 37,0 | 41,9 |
| Heating total input current | Α | 19,0 | 26,0 | 30,0 | 35,0 | 44,0 | 48,0 | 51,0 | 55,0 | 68,0 | 85,0 |
| COP | W/W | 4,41 | 4,31 | 4,26 | 4,18 | 4,19 | 4,15 | 4,13 | 4,19 | 4,06 | 4,06 |
| Water flow rate system side | l/h | 7156 | 9895 | 11628 | 13083 | 14931 | 17533 | 19787 | 22919 | 25938 | 29467 |
| Pressure drop system side | kPa | 23 | 20 | 28 | 23 | 31 | 34 | 41 | 35 | 42 | 54 |

⁽¹⁾ Data 14511:2018; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data 14511:2018; System side water heat exchanger 30 °C/ 35 °C; Outside air 7 °C d.b. / 6 °C w.b.

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

⁽¹⁾ Data 14511:2018; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data 14511:2018; System side water heat exchanger 30 °C/ 35 °C; Outside air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | | |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| Cooling capacity with low leaving water temp (UEn° 2016/2281) | | | | | | | | | | | | | | |
| CLLD | A | W/W | - | - | - | - | 3,45 | 3,52 | 3,46 | 3,42 | 3,44 | 3,33 | | |
| SEER | E | W/W | 3,40 | 3,30 | 3,48 | 3,39 | 3,35 | 3,42 | 3,34 | 3,29 | 3,35 | 3,27 | | |
| | A | % | - | - | - | - | 134,80 | 137,60 | 135,20 | 133,70 | 134,60 | 130,00 | | |
| ηςς | E | % | 133,00 | 128,80 | 136,10 | 132,50 | 130,90 | 133,70 | 130,60 | 128,70 | 130,90 | 127,90 | | |
| UE 813/2013 performance in average a | UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 400 kW (1) | | | | | | | | | | | | | |
| Danimak | A | kW | - | - | - | - | 89 | 106 | 121 | 137 | 157 | 178 | | |
| Pdesignh | E | kW | 44 | 62 | 70 | 80 | 89 | 106 | 121 | 137 | 157 | 178 | | |
| CCOD | A | | - | - | - | - | 2,88 | 2,90 | 3,03 | 3,03 | 2,93 | 2,90 | | |
| SCOP | E | | 3,08 | 3,03 | 3,00 | 3,03 | 2,88 | 2,90 | 3,03 | 3,03 | 2,93 | 2,90 | | |
| | A | % | - | - | - | - | 112,00 | 113,00 | 118,00 | 118,00 | 114,00 | 113,00 | | |
| ηsh | E | % | 120,00 | 118,00 | 117,00 | 118,00 | 112,00 | 113,00 | 118,00 | 118,00 | 114,00 | 113,00 | | |

⁽¹⁾ Efficiencies for average temperature applications (55 $^{\circ}\text{C})$

ELECTRIC DATA

| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | |
| Maximum current (FLA) | Α | Α | - | - | - | - | 75,0 | 85,0 | 94,0 | 114,0 | 144,0 | 147,0 |
| | E | А | 40,0 | 49,0 | 61,0 | 74,0 | 75,0 | 85,0 | 94,0 | 114,0 | 144,0 | 147,0 |
| Peak current (LRA) | A | А | - | - | - | - | 216,0 | 226,0 | 191,0 | 228,0 | 285,0 | 288,0 |
| | E | A | 124,0 | 146,0 | 175,0 | 215,0 | 216,0 | 226,0 | 191,0 | 228,0 | 285,0 | 288,0 |

GENERAL TECHNICAL DATA

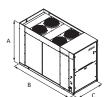
| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Compressor | | | | | | | | | | | | |
| Туре | A | type | - | - | - | - | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| | E | type | Scroll |
| Compressor regulation | Α | Туре | - | - | - | - | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff |
| | E | Туре | On-Off | 0n-0ff |
| Number | Α | no. | - | - | - | - | 2 | 3 | 4 | 4 | 4 | 4 |
| | Е | no. | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 4 |
| Circuits | Α | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | Е | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Defrigurant | Α | type | - | - | - | - | R410A | R410A | R410A | R410A | R410A | R410A |
| Refrigerant | E | type | R410A |
| Refrigerant charge | Α | kg | - | - | - | - | 23,0 | 28,0 | 29,0 | 29,0 | 39,0 | 40,0 |
| | E | kg | 14,0 | 16,0 | 16,0 | 16,0 | 23,0 | 28,0 | 29,0 | 29,0 | 39,0 | 40,0 |
| System side heat exchanger | | | | | | | | | | | | |
| Tuno | Α | type | - | - | - | - | Brazed plate |
| Туре | E | type | Brazed plate |
| Number | Α | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Number | E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | |
| Commentions (in Lord) | Α | Туре | - | - | - | - | G.s. | G.s. | G.s. | G.s. | G.s. | G.s. |
| Connections (in/out) | E | Туре | G.s. |
| Cina (in) | Α | Ø | - | - | - | - | 21/2" | 21/2" | 21/2" | 21/2" | 21/2" | 3" |
| Size (in) | E | Ø | 2½" | 21/2" | 21/2" | 2½" | 21/2" | 21/2" | 2½" | 21/2" | 21/2" | 3" |
| Cina (aut) | А | Ø | - | - | - | - | 21/2" | 2½" | 2½" | 21/2" | 21/2" | 3" |
| Size (out) | E | Ø | 2½" | 2½" | 21/2" | 2½" | 21/2" | 2½" | 2½" | 21/2" | 21/2" | 3" |
| Fan | | | | | | | | | | | | |
| Туре | A | type | - | - | - | - | axials | axials | axials | axials | axials | axials |
| | E | type | axials |
| F | A | type | - | - | - | - | 0n-0ff | On-Off | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff |
| Fan motor | E | type | Inverter | Inverter | Inverter | Inverter | On-Off | On-Off | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff |
| Newskan | Α | no. | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 |
| Number | E | no. | 4 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 3 | 3 |
| Air flow rate | A | m³/h | - | - | - | - | 37000 | 36500 | 36500 | 36500 | 58000 | 58000 |
| | E | m³/h | 14000 | 20000 | 26000 | 26000 | 21100 | 21400 | 22400 | 22400 | 31900 | 31900 |
| Sound data calculated in cooling mode | (1) | | | | | | | | | | | |
| Cannad mannamianal | А | dB(A) | - | - | - | - | 82,0 | 82,0 | 82,0 | 83,0 | 85,0 | 85,0 |
| Sound power level | E | dB(A) | 74,0 | 74,0 | 75,0 | 75,0 | 74,0 | 74,0 | 74,0 | 75,0 | 77,0 | 77,0 |
| | A | dB(A) | - | - | - | - | 50,1 | 50,1 | 50,1 | 51,1 | 53,0 | 53,0 |
| Sound pressure level (10 m) | E | dB(A) | 42,3 | 42,3 | 43,2 | 43,2 | 42,1 | 42,1 | 42,1 | 43,1 | 45,0 | 45,0 |
| | | (- / | ,- | ,- | ,- | ,- | ,: | ,: | ,: | ,- | ,- | ,- |

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

G.s. = Grooved joints

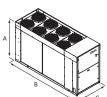
DIMENSIONS

NRK 0200

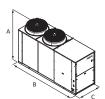


NRK 0280

NRK 0300-0330



NRK 0350-0500-0550-0600



NRK 0650-0700



| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|------------------------|---|----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | |
| A | А | mm | - | - | - | - | 1875 | 1875 | 1875 | 1875 | 1875 | 1875 |
| | E | mm | 1606 | 1606 | 1606 | 1606 | 1875 | 1875 | 1875 | 1875 | 1875 | 1875 |
| В | А | mm | - | - | - | - | 3330 | 3330 | 3330 | 3330 | 4330 | 4330 |
| | E | mm | 2700 | 2700 | 3250 | 3250 | 3330 | 3330 | 3330 | 3330 | 4330 | 4330 |
| C | A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | E | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Weight empty | A | kg | - | - | - | - | 1118 | 1264 | 1325 | 1367 | 1562 | 1597 |
| | E | kg | 804 | 876 | 960 | 967 | 1118 | 1264 | 1325 | 1367 | 1562 | 1597 |