

















# **WRK**

## Reversible water-cooled heat pump, gas side

Cooling capacity 38,9 ÷ 165,9 kW Heating capacity 48,5 ÷ 207,7 kW



- Optimised for heating in centralised systems.
- Production of hot water at high temperature up to 68°C.
- Independent from the gas network.
- DHW production.





#### **DESCRIPTION**

Water source heat pump with reverse cycle valve. The unit can produce chilled and hot water but it is optimized for high temperature hot water production, making it a perfect solution for DHW applications. It can also work with low source temperatures which make it possible to work with geothermal applications.

#### **VERSIONS**

- ° Standard
- L Standard silenced

#### **FEATURES**

#### **Extended operating range**

Particular attention has been given to winter operation, ensuring the production of hot water up to 68°C.

#### Plug and play

All units are equipped with scroll compressors with steam injection and brazed plate heat exchangers. The base and panels are made of steel treated with polyester paints RAL 9003.

The heat pump can be supplied with all the components required for its installation in new systems and in retrofit applications. It can be combined with low temperature emission systems such as in floor radiant heating or fan coils, but also with conventional radiators.

#### Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

## CONTROL PCO<sub>5</sub>

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

- 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.

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

AVX: Spring anti-vibration supports.

**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.

**T6:** Double safety valve; high and low pressure with exchange valve.

#### **ACCESSORIES COMPATIBILITY**

| Model    | Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|----------|-----|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | 0   |      |      |      |      |      | •    | •    | •    | •    | •    |
| AEK465PT | L   |      | •    | •    | •    | •    | •    | •    | •    | •    |      |
| AFDNET   | 0   |      |      |      |      |      | •    | •    | •    | •    |      |
| AERNET   | L   |      | •    | •    | •    | •    | •    | •    | •    | •    | •    |
| DCD1     | 0   |      |      |      |      |      | •    | •    | •    | •    | •    |
| PGD1     |     | •    |      |      | •    | •    | •    | •    |      | •    |      |

#### Antivibration

|          | Integrated    | Integrated      |      |      |      |      |      |          |        |        |        |        |
|----------|---------------|-----------------|------|------|------|------|------|----------|--------|--------|--------|--------|
| Version  | hydronic kit, |                 | 0200 | 0280 | 0300 | 0330 | 0350 | 0500     | 0550   | 0600   | 0650   | 0700   |
|          | user side     | source side     |      |      |      |      |      |          |        |        |        |        |
| 0        | ٥             | ٥               | -    | -    | -    | -    | -    | AVX345   | AVX342 | AVX342 | AVX342 | AVX342 |
| 0        | °,M           | J,K,U,W         | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| 0        | N             | ۰               | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| 0        | 0             | J,K,U,W         | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| 0        | Р             | ٥               | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| 0        | ٥             | Q,R,V,Z         | -    | -    | -    | -    | -    | AVX313   | AVX343 | AVX343 | AVX343 | AVX343 |
| 0        | M,0           | ٥               | -    | -    | -    | -    | -    | AVX313   | AVX343 | AVX343 | AVX343 | AVX343 |
| 0        | M             | Q,R,V,Z         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| 0        | N             | J,K,U,W         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| 0        | 0             | Q,R,V,Z         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| 0        | Р             | J,K,U,W         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| 0        | N,P           | Q,R,V,Z         | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX344 | AVX344 |
| L        | ٥             | ۰               | -    | -    | -    | -    | -    | AVX345   | AVX342 | AVX342 | AVX342 | AVX342 |
| L        | °,M           | J,K,U,W         | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| L        | N             | ٥               | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| L        | 0             | J,K,U,W         | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| L        | Р             | ٥               | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX343 | AVX343 |
| L        | 0             | Q,R,V,Z         | -    | -    | -    | -    | -    | AVX313   | AVX343 | AVX343 | AVX343 | AVX343 |
| L        | M,0           | ٥               | -    | -    | -    | -    | -    | AVX313   | AVX343 | AVX343 | AVX343 | AVX343 |
| L        | M             | Q,R,V,Z         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| L        | N             | J,K,U,W         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| L        | 0             | Q,R,V,Z         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| L        | Р             | J,K,U,W         | -    | -    | -    | -    | -    | -        | -      | -      | -      | -      |
| L        | N,P           | Q,R,V,Z         | -    | -    | -    | -    | -    | AVX343   | AVX343 | AVX343 | AVX344 | AVX344 |
|          | Integrated    | Integrated      |      |      |      |      |      |          |        |        |        |        |
| Version  | hydronic kit, | hydronic kit,   | 0200 | 0280 | 0300 | 0330 | 0350 | 0500     | 0550   | 0600   | 0650   | 0700   |
| VEISIOII | user side     | source side     | 0200 | 0200 | 0300 | 0330 | 0330 | 0300     | 0330   | 0000   | 0030   | 0700   |
| 0        | 0301 3100     | o o             | VT9  | VT9  | VT9  | VT9  | VT9  |          |        |        |        |        |
| - 1      | 0             | 0               | VT9  | VT9  | VT9  | VT9  | VT9  | <u>-</u> |        |        |        |        |
| <u>-</u> | 0             | J,K,Q,R,U,V,W,Z | VT15 | VT15 | VT15 | VT15 | VT15 |          |        |        |        |        |
| i        | М             | °,J,K,U,W       | VT15 | VT15 | VT15 | VT15 | VT15 |          |        |        |        |        |
| l l      | N N           | °,Q,R,V,Z       | VT15 | VT15 | VT15 | VT15 | VT15 |          |        |        |        |        |
| L        | IV            | , V, 11, V, L   | VII) | VIII | VIII | VIII | VIII |          |        |        |        |        |

## Electronic device for peak current reduction.

0

М

N

0

| Ver | 0200           | 0280           | 0300           | 0330           | 0350           | 0500           | 0550           | 0600           | 0650           | 0700           |
|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 0   | -              | -              | -              | -              | -              | DREWRK0500 (1) | DREWRK0550 (1) | DREWRK0600 (1) | DREWRK0650 (1) | DREWRK0700 (1) |
| L   | DREWRK0200 (1) | DREWRK0280 (1) | DREWRK0300 (1) | DREWRK0330 (1) | DREWRK0350 (1) | DREWRK0500 (1) | DREWRK0550 (1) | DREWRK0600 (1) | DREWRK0650 (1) | DREWRK0700 (1) |

VT15

°,J,K,U,W

°,Q,R,V,Z

Q,R,V,Z

J,K,U,W

Q,R,V,Z

J,K,U,W

## Power factor correction.

| Ver | 0200       | 0280       | 0300       | 0330       | 0350       | 0500       | 0550       | 0600       | 0650       | 0700       |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0   | -          | -          | -          | -          | -          | RIFWRK0500 | RIFWRK0550 | RIFWRK0600 | RIFWRK0650 | RIFWRK0700 |
| L   | RIFWRK0200 | RIFWRK0280 | RIFWRK0300 | RIFWRK0330 | RIFWRK0350 | RIFWRK0500 | RIFWRK0550 | RIFWRK0600 | RIFWRK0650 | RIFWRK0700 |

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

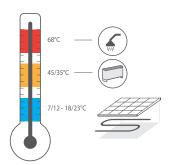
## Double safety valve.

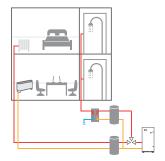
| Ver | 0200   | 0280   | 0300   | 0330   | 0350   | 0500   | 0550   | 0600   | 0650   | 0700   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0   | -      | -      | -      | -      | -      | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 |
| L   | T6WRK1 | T6WRK1 | T6WRK1 | T6WRK1 | T6WRK1 | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 |

A grey background indicates the accessory must be assembled in the factory  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

<sup>(1)</sup> 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. A grey background indicates the accessory must be assembled in the factory

#### **APPLICATION EXAMPLES**





WRK units are used in building renovations, where centralised boilers need replacing, while maintaining the existing distribution system and terminals (e.g. radiators) at the same time, to ensure the production of domestic hot water. This situation is typical when operating in contexts such as public buildings, but also in the case of centralised residential systems such as condominiums, where costs must be limited without changing the distribution system, while also offering a renewable energy source, represented precisely by heat pumps. Being able to upgrade a building without involving the distribution system also eliminates the inconveniences associated with the renovation of the premises, ensuring the continuity of the property's use, saving time and money.

#### CONFIGURATOR

| ATOR   |
|--|
| Description  |
| WRK  |
| <b>Size (1)</b> 0200, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700 |
| Operating field  |
| Standard mechanic thermostatic valve                                       |
| Model  |
| Heat pump  |
| Version  |
| Standard   |
| Standard silenced  |
| Evaporator   |
| Standard   |
| Heat recovery  |
| Without heat recovery  |
| With desuperheater   |
| Power supply   |
| $400V\sim3$ 50Hz with magnet circuit breakers                              |
| Integrated hydronic kit, user side   |
| Without hydronic kit   |
| Single pump low head   |
| Pump low head + stand-by pump  |
| Single pump high head  |
| Pump high head + stand-by pump   |
| Integrated hydronic kit, source side (2)                                   |
| Without hydronic kit   |
| Single low-head inverter pump  |
| Single high-head inverter pump   |
| Single high-head inverter pump + stand-by pump                             |
| Single low-head inverter pump + stand-by pump                              |
| Single pump low head   |
| Pump low head + stand-by pump  |
| Single pump high head  |
| Pump high head + stand-by pump   |
| Field for future development   |
| Field for future development   |
| • • •  |

<sup>(1)</sup> The size 0200-0280-0300-0330-0350 only available in low noise version (L)

<sup>(2)</sup> Heat pumps R and Q are availables only for sizes 0500  $\div$  0700

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

## WRK-H°/HL

| Size                                  |     | 0200 | 0280 | 0300 | 0330 | 0350 | 0500  | 0550  | 0600  | 0650  | 0700  |
|---------------------------------------|-----|------|------|------|------|------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1)  |     |      |      |      |      |      |       |       |       |       |       |
| Cooling capacity                      | kW  | -    | -    | -    | -    | -    | 96,2  | 110,9 | 130,0 | 145,8 | 166,1 |
| Input power                           | kW  | -    | -    | -    | -    | -    | 21,5  | 24,0  | 28,6  | 33,3  | 37,4  |
| Cooling total input current           | Α   | -    | -    | -    | -    | -    | 48,0  | 50,0  | 62,0  | 86,0  | 89,0  |
| EER                                   | W/W | -    | -    | -    | -    | -    | 4,47  | 4,63  | 4,55  | 4,38  | 4,44  |
| Water flow rate source side           | l/h | -    | -    | -    | -    | -    | 20140 | 23075 | 27128 | 30634 | 34797 |
| Pressure drop source side             | kPa | -    | -    | -    | -    | -    | 25    | 25    | 25    | 24    | 25    |
| Water flow rate system side           | l/h | -    | -    | -    | -    | -    | 16552 | 19082 | 22366 | 25077 | 28566 |
| Pressure drop system side             | kPa | -    | -    | -    | -    | -    | 17    | 17    | 17    | 16    | 17    |
| Heating performance 40 °C / 45 °C (2) |     |      |      |      |      |      |       |       |       |       |       |
| Heating capacity                      | kW  | -    | -    | -    | -    | -    | 120,7 | 137,6 | 162,9 | 186,9 | 207,7 |
| Input power                           | kW  | -    | -    | -    | -    | -    | 26,2  | 29,4  | 35,1  | 40,8  | 44,9  |
| Heating total input current           | Α   | -    | -    | -    | -    | -    | -     | -     | -     | -     | -     |
| COP                                   | W/W | -    | -    | -    | -    | -    | 4,61  | 4,67  | 4,64  | 4,58  | 4,62  |
| Water flow rate source side           | l/h | -    | -    | -    | -    | -    | 27698 | 31664 | 37423 | 42766 | 47632 |
| Pressure drop source side             | kPa | -    | -    | -    | -    | -    | 49    | 49    | 50    | 47    | 50    |
| Water flow rate system side           | l/h | -    | -    | -    | -    | -    | 20741 | 23637 | 27998 | 32124 | 35695 |
| Pressure drop system side             | kPa | -    | -    | -    | -    | -    | 28    | 27    | 28    | 27    | 28    |

<sup>(1)</sup> Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

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

#### WRK-H°/HL

| Size                                  |     | 0200  | 0280  | 0300  | 0330  | 0350  | 0500  | 0550  | 0600  | 0650  | 0700  |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) |     |       |       |       |       |       |       |       |       |       |       |
| Cooling capacity                      | kW  | 50,9  | 71,0  | 84,9  | 96,4  | 109,2 | 126,3 | 144,8 | 169,8 | 189,7 | 217,3 |
| Input power                           | kW  | 8,8   | 11,7  | 14,7  | 16,9  | 19,8  | 21,7  | 23,3  | 29,3  | 33,4  | 39,0  |
| Cooling total input current           | A   | 20,0  | 24,0  | 31,0  | 42,0  | 46,0  | 47,0  | 47,0  | 62,0  | 84,0  | 91,0  |
| EER                                   | W/W | 5,81  | 6,10  | 5,78  | 5,69  | 5,53  | 5,82  | 6,20  | 5,80  | 5,69  | 5,58  |
| Water flow rate source side           | l/h | 10217 | 14150 | 17036 | 19386 | 22038 | 25317 | 28767 | 34057 | 38166 | 43828 |
| Pressure drop source side             | kPa | 30    | 36    | 37    | 39    | 41    | 39    | 39    | 40    | 37    | 40    |
| Water flow rate system side           | l/h | 8796  | 12274 | 14672 | 16662 | 18865 | 21826 | 25015 | 29337 | 32770 | 37528 |
| Pressure drop system side             | kPa | 22    | 27    | 28    | 29    | 30    | 29    | 29    | 29    | 28    | 29    |
| Heating performance 30 °C/35 °C(2)    |     |       |       |       |       |       |       |       |       |       |       |
| Heating capacity                      | kW  | 46,4  | 66,1  | 77,8  | 89,0  | 100,1 | 116,4 | 132,7 | 155,6 | 178,3 | 198,1 |
| Input power                           | kW  | 8,3   | 11,5  | 13,8  | 16,2  | 18,2  | 20,7  | 23,0  | 27,5  | 32,1  | 35,4  |
| Heating total input current           | A   | 17,0  | 22,0  | 28,0  | 36,0  | 39,0  | 42,0  | 44,0  | 54,0  | 73,0  | 75,0  |
| COP                                   | W/W | 5,60  | 5,76  | 5,66  | 5,51  | 5,49  | 5,62  | 5,77  | 5,66  | 5,56  | 5,60  |
| Water flow rate source side           | l/h | 6629  | 9514  | 11157 | 12694 | 14269 | 16656 | 19095 | 22309 | 25455 | 28334 |
| Pressure drop source side             | kPa | 13    | 17    | 17    | 17    | 18    | 18    | 18    | 18    | 17    | 18    |
| Water flow rate system side           | l/h | 8016  | 11435 | 13458 | 15390 | 17310 | 20118 | 22943 | 26905 | 30825 | 34248 |
| Pressure drop system side             | kPa | 19    | 24    | 24    | 25    | 26    | 25    | 25    | 25    | 24    | 25    |

<sup>(1)</sup> Date 14511:2018; Water user side 23 °C / 18 °C; Water source side 30 °C / 35 °C (2) Date 14511:2018; Water user side 30 °C / 35 °C; Water source side 10 °C / 5 °C

## **ENERGY DATA**

## Energy index

| Size                                    |               |                 | 0200             | 0280          | 0300   | 0330   | 0350   | 0500   | 0550   | 0600   | 0650   | 0700   |
|---|---------------|-----------------|------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity with low leaving water | er temp (UE n | ° 2016/2281)    |                  |               |        |        |        |        |        |        |        |        |
| SEER                                    | 0             | W/W             | -                | -             | -      | -      | -      | 5,33   | 5,46   | 5,28   | 5,38   | 5,28   |
| SEEK                                    | L             | W/W             | 4,75             | 5,14          | 5,04   | 5,04   | 4,97   | 5,33   | 5,46   | 5,28   | 5,38   | 5,28   |
|   | 0             | %               | -                | -             | -      | -      | -      | 205,00 | 210,00 | 203,00 | 207,00 | 203,00 |
| ηςς                                     | L             | %               | 182,00           | 198,00        | 194,00 | 194,00 | 191,00 | 205,00 | 210,00 | 203,00 | 207,00 | 203,00 |
| UE 811/2013 performance in average a    | mbient cond   | itions (average | e) - 55 °C - Pde | signh ≤ 70 k\ | N (1)  |        |        |        |        |        |        |        |
| Feff sion and an array along            | 0             |                 | -                | -             | -      | -      | -      | -      | -      | -      | -      | -      |
| Efficiency energy class                 | L             |                 | A+++             | -             | -      | -      | -      | -      | -      | -      | -      | -      |
| Diladan                                 | 0             | kW              | -                | -             | -      | -      | -      | 157    | 179    | 212    | 244    | 271    |
| Pdesignh                                | L             | kW              | 63               | 89            | 106    | 122    | 135    | 157    | 179    | 212    | 244    | 271    |
|   | 0             | %               | -                | -             | -      | -      | -      | 191,00 | 195,00 | 194,00 | 193,00 | 192,00 |
| ηsh                                     | L             | %               | 181,00           | 187,00        | 185,00 | 181,00 | 182,00 | 191,00 | 195,00 | 194,00 | 193,00 | 192,00 |
| CCOD                                    | 0             |                 | -                | -             | -      | -      | -      | 4,98   | 5,08   | 5,05   | 5,03   | 5,00   |
| SCOP                                    | L             |                 | 4,73             | 4,88          | 4,83   | 4,73   | 4,75   | 4,98   | 5,08   | 5,05   | 5,03   | 5,00   |

<sup>(1)</sup> Efficiencies for average temperature applications (55°C)

## **ELECTRICAL DATA**

| Size                  |   |   | 0200  | 0280  | 0300  | 0330  | 0350  | 0500  | 0550  | 0600  | 0650  | 0700  |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data         |   |   |       |       |       |       |       |       |       |       |       |       |
| Mariana A (FLA)       | ٥ | А | -     | -     | -     | -     | -     | 75,0  | 84,0  | 104,0 | 130,0 | 132,0 |
| Maximum current (FLA) | L | А | 32,0  | 42,0  | 52,0  | 65,0  | 66,0  | 75,0  | 84,0  | 104,0 | 130,0 | 132,0 |
| D. J                  | 0 | A | -     | -     | -     | -     | -     | 216,0 | 181,0 | 218,0 | 271,5 | 273,0 |
| Peak current (LRA)    | L | A | 144.0 | 139.0 | 166.0 | 206.5 | 207.0 | 216.0 | 181.0 | 218.0 | 271.5 | 273.0 |

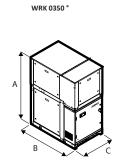
## **GENERAL TECHNICAL DATA**

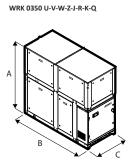
## General data

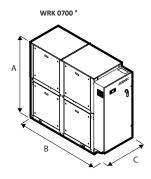
| Size                                  |       |        | 0200         | 0280         | 0300         | 0330         | 0350         | 0500         | 0550         | 0600         | 0650         | 0700         |
|---------------------------------------|-------|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Compressor                            |       |        |              |              |              |              |              |              |              |              |              |              |
|                                       | 0     | type   | -            | -            | -            | -            | -            | Scroll       | Scroll       | Scroll       | Scroll       | Scroll       |
| Туре                                  | L     | type   | Scroll       |
| Number                                | 0     | no.    | -            | -            | -            | -            | -            | 3            | 4            | 4            | 4            | 4            |
| Number                                | L     | no.    | 2            | 2            | 2            | 2            | 2            | 3            | 4            | 4            | 4            | 4            |
| Circuits                              | 0     | no.    | -            | -            | -            | -            | -            | 2            | 2            | 2            | 2            | 2            |
| Circuits                              | L     | no.    | 2            | 2            | 2            | 2            | 2            | 2            | 2            | 2            | 2            | 2            |
| Refrigerant                           | 0     | type   | -            | -            | -            | -            | -            | R410A        | R410A        | R410A        | R410A        | R410A        |
| neiligeralit                          | L     | type   | R410A        |
| Refrigerant charge                    | 0     | kg     | -            | -            | -            | -            | -            | 13,0         | 16,0         | 18,0         | 22,0         | 24,0         |
|                                       | L     | kg     | 6,0          | 8,0          | 9,0          | 10,0         | 11,0         | 13,0         | 16,0         | 18,0         | 22,0         | 24,0         |
| Source side heat exchanger            |       |        |              |              |              |              |              |              |              |              |              |              |
| Туре                                  |       | type   | -            | -            | -            | -            | -            |              |              |              | Brazed plate |              |
|                                       | L     | type   | Brazed plate |
| Number                                |       | no.    | -            | -            | -            | -            | -            | 1            | 1            | 1            | 1            | 1            |
|                                       | L     | no.    | 1            | 1            | 1            | 1            | 1            | 1            | 11           | 1            | 1            | 1            |
| System side heat exchanger            |       |        |              |              |              |              |              |              |              |              |              |              |
| Туре                                  |       | type   | -            | -            | -            | -            | -            |              |              |              | Brazed plate |              |
|                                       | L     | type   | Brazed plate |
| Number                                |       | no.    | -            | -            | -            | -            | -            | 1            | 1            | 1            | 1            | 1            |
|                                       | L     | no.    | 1            | 1            | 1            | 1            | 1            | 1            | 1            | 1            | 1            | 1            |
| Source side hydraulic connections     |       |        |              |              |              |              |              |              |              |              |              |              |
|                                       | 0     | Туре   | _            | _            | _            | _            | _            | Grooved      | Grooved      | Grooved      | Grooved      | Grooved      |
| Connections (in/out)                  |       | .,,,,, |              |              |              |              |              | joints       | joints       | joints       | joints       | joints       |
| connections (in out)                  | L     | Type   | Grooved      |
|                                       |       |        | joints       |
| Sizes (in/out)                        | -     | Ø      | -            | -            | -            | -            | -            | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       |
|                                       | L     | Ø      | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       |
| System side hydraulic connections     |       |        |              |              | -            | -            |              |              |              |              |              |              |
|                                       | 0     | Type   | -            | -            | -            | -            | -            | Grooved      | Grooved      | Grooved      | Grooved      | Grooved      |
| Connections (in/out)                  |       |        |              |              |              |              |              | joints       | joints       | joints       | joints       | joints       |
| , ,                                   | L     | Туре   | Grooved      |
|                                       | 0     |        | joints       |
| Sizes (in/out)                        |       | Ø      | 2 1 /2//     | - 2.1/2//    | 2 1 /2//     | - 2.1/2//    | - 2.1/2//    | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       |
|                                       | L     | Ø      | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       | 2 1/2"       |
| Sound data calculated in cooling mode | e (1) | JD(A)  |              |              |              |              |              | 02.0         | 02.0         | 02.0         | 02.0         |              |
| Sound power level                     |       | dB(A)  | - 72.0       | -            | - 72.0       | - 740        | -            | 82,0         | 82,0         | 82,0         | 83,0         | 83,0         |
|                                       | L     | dB(A)  | 72,0         | 74,0         | 72,0         | 74,0         | 76,0         | 76,0         | 77,0         | 76,0         | 78,0         | 78,0         |
| Sound pressure level (10 m)           |       | dB(A)  | -            | -            | -            | - 42.0       | -            | 50,0         | 51,0         | 50,0         | 51,0         | 52,0         |
|                                       | L     | dB(A)  | 40,0         | 42,0         | 41,0         | 42,0         | 44,0         | 45,0         | 45,0         | 44,0         | 46,0         | 46,0         |

<sup>(1)</sup> 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                   | ' |    | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|------------------------|---|----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights |   |    |      |      |      |      |      |      |      |      |      |      |
| Λ                      | 0 | mm | -    | -    | -    | -    | -    | 1775 | 1775 | 1775 | 1775 | 1775 |
| А                      | L | mm | 1675 | 1675 | 1675 | 1675 | 1675 | 1885 | 1885 | 1885 | 1885 | 1885 |
| D                      | 0 | mm | -    | -    | -    | -    | -    | 1800 | 1800 | 1800 | 1800 | 1800 |
| D                      | L | mm | 1260 | 1260 | 1260 | 1260 | 1260 | 1800 | 1800 | 1800 | 1800 | 1800 |
| (                      | 0 | mm | -    | -    | -    | -    | -    | 800  | 800  | 800  | 800  | 800  |
|                        | L | mm | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  |
| Waight ampty           | 0 | kg | -    | -    | -    | -    | -    | 755  | 840  | 865  | 890  | 920  |
| Weight empty           | L | kg | 495  | 550  | 565  | 570  | 580  | 930  | 1015 | 1040 | 1065 | 1095 |

The weight of the unit does not include the hydronic kit and accessories.