# NXW 0503 - 1654

## Water cooled heat pump reversible water side

**Cooling capacity 111 ÷ 511 kW**
**Heating capacity 127 ÷ 582 kW**

- **Options of 1 or 2 pumps on both source and user side.**
- **Reversible on hydraulic side in heat pump**


## DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.
Indoor units with hermetic scroll compressors and plate heat exchangers.
The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

## VERSIONS

° Standard
**L** Standard silenced

## FEATURES

### Operating field

Full-load operation with the production of chilled water 4-18 °C, and the possibility to produce also negative temperature water down to -10°C for the evaporator and hot water for the condenser up to 55 °C.
(for more information, refer to the technical documentation).

### Dual-circuit unit

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

### Option integrated hydronic kit, source and user side

The built-in hydronic module includes the main water circuit components; it is available in varius configurations with one or two pumps with high or low head both on the system side and the source side, to obtain a solution that allows you to save money and to facilitate installation.

## CONTROL PCO

Microprocessor adjustment, with display LCD which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and the ad adjustment includes complete management of the alarms and their log.
You also have the possibility to:
— Check two units in parallel Master-Slave
— 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.

## ACCESSORIES

**AER485P1:** RS-485 interface for supervising systems with MODBUS protocol. 1 accessory is provided for each unit control board.
**AERBAC-ONE:** Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols, HTTPS protocol for web interface, encrypted communication protocols and access credential management in accordance with the latest standards. One accessory is provided for each unit control board.
**AERBACP:** Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols. 1 accessory is provided for each unit control board.
**AERNET:** The device remotely controls, manages and remotely monitors a chiller/heat pump using a PC, smartphone or table via a Cloud connection. AERNET acts as Master while each connected unit is configured as Slave up to a maximum of 6 control cards. The connection is made via cable and/or USB key. Wi-Fi connectivity is not available. It is also possible to save a log file with all the data from the connected units to your terminal with a simple click for possible post-analysis. With the purchase of the Router, the Customer benefits from a 24-month free period during which he can use the Aernet Service at no additional cost. At the end of this initial period, the Service may be renewed by subscribing to a 1, 2 or 3 year subscription. For further details on costs and renewal methods, please contact our office or consult the technical documentation available on our website. www.aermec.com.
**MULTICHILLER-EVO:** Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel (max. no. 9), 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.
**AVX:** Spring anti-vibration supports.
**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 with exchange cock, both on the high and low pressure branches.

**PR4:** Remote panel with LCD display and touch keyboard that allows carrying out the basic controls, the programming of time ranges and the signalling of the alarms of a single unit.

*The accessory PR4 should only be combined with the RS485 communication interface when the serial port is occupied by another device.*

## Factory fitted accessories

**T6:** Double safety valve with exchange cock, both on the high and low pressure branches.

## ACCESSORIES COMPATIBILITY

| Model | Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AER485P1 | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBAC-ONE | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER-EVO | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SGD | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |

### Antivibration

| Version | System side - pumps | Integrated hydronic kit, source side | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 |
|---|---|---|---|---|---|---|---|---|---|
| ° | ° | ° | AVX319 | AVX319 | AVX301 | AVX301 | AVX301 | AVX303 | AVX310 |
| ° | ° | J, K, U, W | AVX320 | AVX320 | AVX320 | AVX320 | AVX320 | AVX312 | AVX651 |
| ° | M, O | ° | AVX320 | AVX320 | AVX320 | AVX320 | AVX320 | AVX312 | AVX651 |
| ° | ° | V, Z | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| ° | M | J, K, U, V, W, Z | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| ° | N | °, J, K, U, W | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| ° | O | J, K, U, V, W, Z | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| ° | P | °, J, K, U, W | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| ° | N, P | V, Z | AVX309 | AVX309 | AVX310 | AVX310 | AVX310 | AVX312 | AVX651 |
| L | ° | ° | AVX309 | AVX309 | AVX310 | AVX303 | AVX303 | AVX310 | AVX314 |
| L | ° | J, K, U, W | AVX321 | AVX321 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | M, O | ° | AVX321 | AVX321 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | ° | V, Z | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | M | J, K, U, W | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | N | ° | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | O | J, K, U, W | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | P | ° | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | M | V, Z | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | N | J, K, U, W | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | O | V, Z | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | P | J, K, U, W | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | N, P | V, Z | AVX312 | AVX312 | AVX312 | AVX310 | AVX651 | AVX651 | AVX652 |

| Version | System side - pumps | Integrated hydronic kit, source side | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|
| ° | ° | ° | AVX314 | AVX316 | AVX316 | AVX315 | AVX330 | AVX330 |
| ° | ° | J, K, U, W | AVX655 | AVX653 | AVX654 | AVX654 | AVX334 | AVX337 |
| ° | M, N, O | ° | AVX655 | AVX653 | AVX654 | AVX654 | AVX334 | AVX337 |
| ° | ° | V, Z | AVX655 | AVX653 | AVX654 | AVX654 | AVX337 | - |
| ° | M, O | J, K, U, W | AVX665 | AVX653 | AVX654 | AVX654 | AVX337 | AVX335 |
| ° | M, O | V, Z | AVX655 | AVX653 | AVX654 | AVX654 | AVX340 | - |
| ° | N | J, K, U, W | AVX665 | AVX653 | AVX654 | AVX654 | AVX340 | AVX335 |
| ° | N | V, Z | AVX665 | AVX653 | AVX654 | AVX654 | AVX335 | - |
| ° | P | ° | AVX655 | AVX653 | AVX654 | AVX654 | - | - |
| ° | P | J, K, U, V, W, Z | AVX665 | AVX653 | AVX654 | AVX654 | - | - |
| L | ° | ° | AVX314 | AVX315 | AVX315 | AVX317 | AVX331 | AVX331 |
| L | ° | J, K, U, W | AVX653 | AVX654 | AVX659 | AVX659 | AVX335 | AVX338 |
| L | M, O | ° | AVX653 | AVX654 | AVX659 | AVX659 | AVX335 | AVX338 |
| L | ° | V, Z | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | - |
| L | M | J, K, U, W | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | AVX339 |
| L | N | ° | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | AVX339 |
| L | O | J, K, U, W | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | AVX339 |
| L | M, N, O | V, Z | AVX653 | AVX654 | AVX659 | AVX659 | AVX339 | - |
| L | N | J, K, U, W | AVX653 | AVX654 | AVX659 | AVX659 | AVX339 | AVX341 |
| L | P | °, J, K, U, V, W, Z | AVX653 | AVX654 | AVX659 | AVX659 | - | - |

- not available

### PR4

| Model | Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PR4 | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |

### Power factor correction

| Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| °, L | RIF98 | RIF98 | RIF95 | RIF95 | RIF95 | RIF95 | RIF95 | RIF96 | RIF97 | RIF97 | RIF97 | RIF97 | RIF97 |

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

### Device for peak current reduction

| Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| °, L | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) | DRE751 (1) | DRE801 (1) | DRE901 (1) | DRE1001 (1) | DRE1251 (1) | DRE1401 (1) | DRE1500 (1) | DRE1650 (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

### Double safety valves

| Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Evaporator: E** | | | | | | | | | | | | | |
| °, L | T6NXW5 (1) | T6NXW5 (1) | T6NXW6 (1) | T6NXW6 (1) | T6NXW6 (1) | T6NXW7 (1) | T6NXW8 (1) | T6NXW9 (1) | T6NXW9 (1) | T6NXW10 (1) | T6NXW10 (1) | T6NXW10 (1) | T6NXW10 (1) |
| **Evaporator: °** | | | | | | | | | | | | | |
| °, L | T6NXW1 (1) | T6NXW1 (1) | T6NXW2 (1) | T6NXW2 (1) | T6NXW2 (1) | T6NXW2 (1) | T6NXW2 (1) | T6NXW3 (1) | T6NXW3 (1) | T6NXW4 (1) | T6NXW4 (1) | T6NXW4 (1) | T6NXW4 (1) |

(1) They cannot be installed in systems with total heat recovery.
A grey background indicates the accessory must be assembled in the factory

## CONFIGURATOR

| Field | | Description |
|---|---|---|
| **1,2,3** | | **NXW** |
| **4,5,6,7** | | **Size**<br>0503, 0553, 0604, 0654, 0704, 0754, 0804, 0904, 1004, 1254, 1404, 1504, 1654 |
| **8** | | **Operating field** |
| | X | Electronic thermostatic expansion valve |
| | Y | Low temperature mechanic thermostatic valve (1) |
| | ° | Standard mechanic thermostatic valve (2) |
| **9** | | **Model** |
| | K | Heat pump reversible on the water side with low pressure drops (3) |
| | ° | Heat pump reversible on the water side |
| **10** | | **Version** |
| | ° | Standard |
| | L | Standard silenced |
| **11** | | **Evaporator** |
| | E | Evaporating unit (4) |
| | ° | Standard |
| **12** | | **Heat recovery** |
| | D | With desuperheater (5) |
| | T | With total recovery (6) |
| | ° | Without heat recovery |
| **13** | | **Power supply** |
| | 5 | 500V ~ 3 50Hz with magnet circuit breakers (7) |
| | ° | 400V ~ 3 50Hz with magnet circuit breakers |
| **14** | | **System side - pumps** |
| | M | Single pump low head |
| | N | Pump low head + stand-by pump |
| | O | Single pump high head |
| | P | Pump high head + stand-by pump (8) |
| | ° | Without hydronic kit |
| **15** | | **Integrated hydronic kit, source side** |
| | J | Single low-head inverter pump (8) |
| | K | Single high-head inverter pump (8) |
| | U | Single pump low head |
| | V | Pump low head + stand-by pump (9) |
| | W | Pump high head |
| | Z | Pump high head + stand-by pump (9) |
| | ° | Without hydronic kit |

(1) Water produced from 4 °C ÷ -10 °C; for the avalability with the heat recovery we advise you to contact us
(2) Water produced from 4 °C ÷ 18 °C
(3) Only for sizes from 0704 ÷ 0904
(4) Shipped with holding charge only.
(5) 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.
(6) Options not available for condensing unit, and for models with pump/s
(7) Only for 0804 ÷ 1004 sizes
(8) Not available for size 1504 ÷ 1654
(9) Not available for size 1654

## PERFORMANCE SPECIFICATIONS

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Cooling performance 12 °C / 7 °C (1)** | | | | | | | | | | | | | | | |
| Cooling capacity | °,L | kW | 111,8 | 120,7 | 148,7 | 166,7 | 188,7 | 222,7 | 257,6 | 291,6 | 325,7 | 354,6 | 384,6 | 453,9 | 511,4 |
| Input power | °,L | kW | 23,0 | 24,8 | 30,6 | 34,4 | 38,9 | 45,6 | 53,0 | 60,3 | 66,5 | 72,6 | 78,7 | 92,3 | 104,0 |
| Cooling total input current | °,L | A | 48,00 | 51,00 | 58,00 | 63,00 | 86,00 | 94,00 | 102,00 | 120,00 | 138,00 | 140,00 | 143,00 | 160,00 | 178,00 |
| EER | °,L | W/W | 4,87 | 4,86 | 4,86 | 4,85 | 4,85 | 4,88 | 4,86 | 4,84 | 4,90 | 4,88 | 4,89 | 4,92 | 4,92 |
| Water flow rate source side | °,L | l/h | 23.047 | 24.886 | 30.656 | 34.332 | 38.866 | 45.790 | 52.970 | 60.075 | 67.065 | 73.041 | 79.190 | 93.374 | 105.103 |
| Pressure drop source side | °,L | kPa | 25 | 29 | 29 | 37 | 37 | 45 | 60 | 38 | 29 | 34 | 36 | 36 | 47 |
| Water flow rate system side | °,L | l/h | 19.243 | 20.789 | 25.600 | 28.692 | 32.472 | 38.314 | 44.327 | 50.169 | 56.011 | 60.993 | 66.147 | 78.063 | 87.938 |
| Pressure drop system side | °,L | kPa | 30 | 35 | 32 | 40 | 43 | 47 | 49 | 55 | 35 | 36 | 36 | 36 | 40 |
| **Heating performance 40 °C / 45 °C (2)** | | | | | | | | | | | | | | | |
| Heating capacity | °,L | kW | 127,6 | 137,8 | 170,0 | 190,3 | 215,4 | 253,7 | 293,5 | 332,9 | 371,5 | 404,7 | 438,7 | 517,1 | 582,0 |
| Input power | °,L | kW | 27,6 | 29,9 | 36,3 | 40,9 | 46,4 | 54,5 | 63,3 | 72,3 | 79,0 | 86,2 | 93,3 | 109,5 | 123,4 |
| Heating total input current | °,L | A | 57,00 | 60,00 | 68,00 | 73,00 | 100,00 | 109,00 | 119,00 | 140,00 | 161,00 | 163,00 | 166,00 | 186,00 | 207,00 |
| COP | °,L | W/W | 4,62 | 4,61 | 4,69 | 4,66 | 4,64 | 4,66 | 4,64 | 4,60 | 4,70 | 4,69 | 4,70 | 4,72 | 4,71 |
| Water flow rate source side | °,L | l/h | 29.340 | 31.697 | 39.235 | 43.975 | 49.768 | 58.721 | 67.938 | 76.891 | 85.844 | 93.480 | 101.380 | 119.642 | 134.776 |
| Pressure drop source side | °,L | kPa | 70 | 81 | 75 | 94 | 101 | 110 | 115 | 129 | 82 | 85 | 85 | 85 | 94 |
| Water flow rate system side | °,L | l/h | 22.142 | 23.905 | 29.490 | 33.021 | 37.384 | 44.030 | 50.933 | 57.790 | 64.513 | 70.265 | 76.175 | 89.802 | 101.065 |
| Pressure drop system side | °,L | kPa | 23 | 27 | 27 | 34 | 34 | 42 | 55 | 35 | 27 | 31 | 33 | 33 | 43 |

(1) Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

## ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SEER - 12/7 (EN14825: 2018)** | | | | | | | | | | | | | | | |
| SEER | °,L | W/W | 5,50 | 5,85 | 5,79 | 5,77 | 5,84 | 5,81 | 5,52 | 6,30 | 6,42 | 6,37 | 6,38 | 6,49 | 6,48 |
| Seasonal efficiency | °,L | % | 217,00 | 231,00 | 228,60 | 227,80 | 230,60 | 229,40 | 217,80 | 248,80 | 253,80 | 251,60 | 252,00 | 256,40 | 256,20 |
| Water Regulation (1) | °,L | type | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW |
| **Performance in average ambient conditions (average) - 55 °C (2)** | | | | | | | | | | | | | | | |
| Pdesignh | °,L | kW | 164,00 | 177,00 | 218,00 | 244,00 | 277,00 | 326,00 | 377,00 | - | - | - | - | - | - |
| SCOP | °,L | W/W | 5,10 | 5,05 | 5,18 | 5,10 | 5,10 | 5,10 | 5,08 | - | - | - | - | - | - |
| ηsh | °,L | % | 196,00 | 194,00 | 199,00 | 196,00 | 196,00 | 196,00 | 195,00 | - | - | - | - | - | - |
| Water Regulation (1) | °,L | type | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | - | - | - | - | - | - |
| **SEPR - (EN 14825: 2018)** | | | | | | | | | | | | | | | |
| SEPR | °,L | W/W | - | - | - | - | - | - | - | 7,90 | 7,90 | 7,80 | 7,80 | 8,00 | 8,00 |
| Water Regulation (1) | °,L | type | - | - | - | - | - | - | - | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW | FW/VO-FW |

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(2) Efficiencies for average temperature applications (55 °C)

## ELECTRIC DATA

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Electric data** | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,L | A | 75,0 | 80,0 | 96,0 | 107,0 | 122,0 | 146,0 | 169,0 | 193,0 | 217,0 | 231,0 | 248,0 | 267,0 | 296,0 |
| Peak current (LRA) | °,L | A | 240,0 | 245,0 | 227,0 | 238,0 | 289,0 | 319,0 | 341,0 | 398,0 | 422,0 | 490,0 | 504,0 | 601,0 | 630,0 |

## GENERAL TECHNICAL DATA

### Refrigerant circuit

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Compressor** | | | | | | | | | | | | | | | |
| Type | °,L | type | | | | | | | Scroll | | | | | | |
| Compressor regulation | °,L | Type | | | | | | | On-Off | | | | | | |
| Number | °,L | no. | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Circuits | °,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,L | type | | | | | | | R410A | | | | | | |
| Total refrigerant charge (1) | °,L | kg | 13,20 | 12,50 | 15,60 | 15,60 | 18,00 | 22,00 | 26,00 | 33,00 | 38,00 | 44,00 | 44,00 | 46,00 | 53,00 |
| Potential global heating (GWP) | °,L | | | | | | | | 2088 | | | | | | |
| Equivalent $CO_2$ | °,L | $tCO_2eq$ | 27,56 | 26,10 | 32,57 | 32,57 | 37,58 | 45,94 | 54,29 | 68,90 | 79,34 | 91,87 | 91,87 | 96,05 | 110,66 |

(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.

### System side heat exchanger

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **System side heat exchanger** | | | | | | | | | | | | | | | |
| Type | °,L | type | | | | | | | Brazed plate | | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Size (in) | °,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 | 3" | 3" | 3" | 3" | 3" |
| Size (out) | °,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 | 3" | 3" | 3" | 3" | 3" |

## Source side heat exchanger

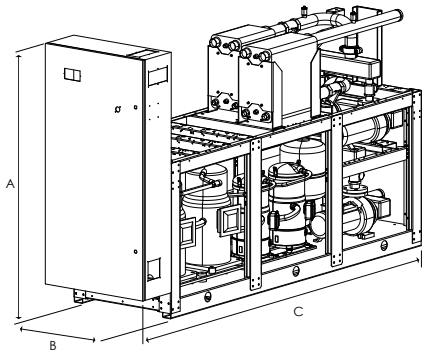
| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Source side heat exchanger** | | | | | | | | | | | | | | | |
| Type | °,L | type | Brazed plate | | | | | | | | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,L | Type | Grooved joints | | | | | | | | | | | | |
| Size (in) | °,L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Size (out) | °,L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |

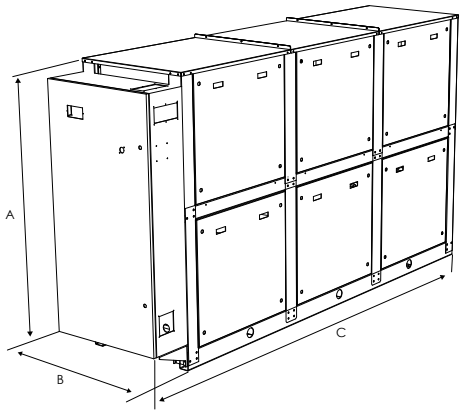
## Sound data

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sound data calculated in cooling mode (1)** | | | | | | | | | | | | | | | |
| Sound power level | ° | dB(A) | 78,0 | 79,0 | 79,0 | 80,0 | 82,0 | 86,0 | 88,0 | 88,0 | 88,0 | 90,0 | 90,0 | 93,0 | 95,0 |
| | L | dB(A) | 72,0 | 73,0 | 73,0 | 74,0 | 76,0 | 80,0 | 82,0 | 82,0 | 82,0 | 84,0 | 84,0 | 86,0 | 87,0 |

(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).

## DIMENSIONS




| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dimensions and weights** | | | | | | | | | | | | | | | |
| A | ° | mm | 1.835 | 1.835 | 1.835 | 1.835 | 1.835 | 1.775 | 1.775 | 1.820 | 1.820 | 1.820 | 1.820 | 1.820 | 1.820 |
| | L | mm | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 |
| B | °,L | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| C | ° | mm | 1.795 | 1.795 | 1.795 | 1.795 | 1.795 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 |
| | L | mm | 2.090 | 2.090 | 2.090 | 2.090 | 2.090 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 | 2.420 |
| **Dimensions and weights with pump/s** | | | | | | | | | | | | | | | |
| A | ° | mm | 1.775 | 1.775 | 1.775 | 1.775 | 1.775 | 1.775 | 1.775 | 1.820 | 1.820 | 1.820 | 1.820 | 1.820 | 1.820 |
| | L | mm | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 | 1.885 |
| B | °,L | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| C | °,L | mm | 3.020 | 3.020 | 3.020 | 3.020 | 3.020 | 3.480 | 3.480 | 3.480 | 3.480 | 3.480 | 3.480 | 3.480 | 3.480 |
| **Dimensions and weights** | | | | | | | | | | | | | | | |
| Empty weight | ° | kg | 578 | 582 | 682 | 690 | 727 | 882 | 989 | 1.180 | 1.417 | 1.461 | 1.539 | 1.613 | 1.721 |
| | L | kg | 750 | 755 | 854 | 863 | 900 | 1.054 | 1.187 | 1.378 | 1.615 | 1.659 | 1.737 | 1.811 | 1.919 |

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



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