

**Water to water heat pump, reversible
on hydraulic side
38,1-398 kW**



Water to water indoor unit for the production of chilled/hot water with hermetic rotary Scroll compressors, braze-welded plate-type exchanger and electronic expansion valve. Basement and frame in hot-galvanised shaped sheet steel with a suitable thickness. All parts polyester-powder painted to assure total weather resistance, RAL 7035. The range includes the single-circuit two-compressor versions and the dual circuit four-compressor versions.

Version

- Basic

Configurations

H Function with heat pump, reversible on hydraulic side

Features**HIGH EFFICIENCY**

Very high efficiency at full and partial load, at the highest market levels, thanks to the adopted technological solutions. These units ensure low operating costs and therefore a quick payback time.

ErP READY

The highest level of efficiency at part load can meet and exceed the minimum seasonal efficiency for heating, SCOP (only for reversible units) and for cooling, SEER, according with the eco-sustainable design requirements for all products using energy. The units already comply with the minimum seasonal energy efficiency requirements that will start from 2021.

VARIABLE PRIMARY FLOW (OPTION)

Energy saving due to variable pump speed management based on load demand and the variable flow assures the functioning of the units also with critical working conditions. VPF (Variable Primary Flow) available for sizes 0604-1204.

EXTREMELY SILENT OPERATION

Extremely silent operation together with high efficiency, tank to dedicated acoustic devices and a precise design for the choice of the components.

INTEGRATED CONDENSATION'S CONTROL

The electronics of the units manages the most suitable condensing control for each type of application: two or three-way modulating valve and 0-10V signal for variable speed driven pumps.

TOTAL VERSATILITY

Climaveneta has designed the NX-W units with a range of integral accessories in mind for operation with total water loss (well, water bed, etc.), dry cooler or cooling tower and suitable for geothermal application so as to satisfy all service system and installation requirements.

ELECTRONIC EXPANSION VALVE SUPPLIED STANDARD

The use of the electronic expansion valve generates considerable benefits, especially in cases of variable demand and at different working conditions. It guaranteed energy saving due to efficiency optimization in various different working conditions. The electronic thermostatic valve allows you to obtain speed in reaching machine stability and an extension of the operating limits.

Accessory

- Touch Screen visual display
- Set-up for remote connectivity with ModBus/Echelon protocol cards
- Outside air temperature probe for plant water set point compensation.
- Integral acoustical enclosure (type base)
- Thicker soundproofing cladding
- VPF (Variable Primary Flow) system
- Condensing control device: two or three-way modulating pressure-controlled valve and inverter on pumps

Controls**Electronic control W3000TE**

The brand new W3000TE controller offers advanced functions and algorithms.

The keypad W3000 Compact, as standard equipment, features function controls and a complete LCD display for viewing data and activating the unit, via a multilevel menu, with settable display language.

The controller provides water temperature control for the heating systems, cooling systems (only for reversible units), as well as for domestic hot water (only for reversible units). These different temperatures are managed automatically based on the different conditions in which the system operates, with the possibility to assign specific levels of priority to domestic hot water production, depending on the needs of the application.

The regulation is based on the exclusive QuickMind algorithm, including self-adaptive control logics, beneficial in low water content systems. As alternatives the proportional- or proportional- integral regulations are also available.

Diagnostics include complete alarm management, with "blackbox" functions (via PC) and alarm log (display or PC) for best analysis of unit behaviour. For systems made up of multiple units, differentiated device management means just a certain portion of the capacity installed can be dedicated to domestic water production, in this way ensuring more efficient energy distribution and, at the same time, guaranteeing simultaneous water delivery to the different distribution systems. The built-in clock can be used to create an operating profile containing up to 4 typical days and 10 time bands, essential for efficient programming of energy production and fundamental for managing the Legionella prevention cycles. Available time bands also for DHW production.

Supervision is available with different options, using proprietary devices or by integration into third party systems using ModBus, BACnet, BACnet-over-IP and Echelon LonWorks protocols.

A dedicated wall-mounted keypad can be used for remote control of all the functions.

Optionally (VPF package), capacity modulation can be integrated with hydraulic flow modulation, thanks to inverter-driven pumps and to specific resources for the hydraulic circuit.





COOLING

R HFC R-410A

P PLATES

HEATING

SCROLL

| NX-W /H | | | 0122 | 0152 | 0182 | 0202 | 0252 | 0262 | 0302 | 0352 |
|---|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Power supply | | V/ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| PERFORMANCE | | | | | | | | | | |
| COOLING ONLY (GROSS VALUE) | | | | | | | | | | |
| Cooling capacity | (1) | kW | 38,1 | 47,7 | 56,2 | 65,3 | 72,3 | 82,3 | 96,7 | 111 |
| Total power input | (1) | kW | 7,53 | 9,31 | 10,8 | 12,6 | 13,8 | 16,0 | 18,9 | 21,7 |
| EER | (1) | kW/kW | 5,06 | 5,12 | 5,20 | 5,18 | 5,24 | 5,14 | 5,12 | 5,13 |
| ESEER | (1) | kW/kW | 6,46 | 6,76 | 6,42 | 6,47 | 6,72 | 6,41 | 6,49 | 6,63 |
| COOLING ONLY (EN14511 VALUE) | | | | | | | | | | |
| Cooling capacity | (1)(2) | kW | 37,9 | 47,5 | 55,9 | 65,1 | 72,0 | 82,0 | 96,4 | 111 |
| EER | (1)(2) | kW/kW | 4,85 | 4,89 | 4,96 | 4,96 | 5,01 | 4,96 | 4,94 | 4,96 |
| ESEER | (1)(2) | kW/kW | 5,89 | 6,10 | 5,81 | 5,93 | 6,12 | 5,95 | 6,04 | 6,13 |
| Cooling energy class | | | B | B | B | B | B | B | B | B |
| HEATING ONLY (GROSS VALUE) | | | | | | | | | | |
| Total heating capacity | (3) | kW | 42,4 | 53,0 | 62,6 | 72,6 | 80,1 | 91,0 | 107 | 123 |
| Total power input | (3) | kW | 9,44 | 11,5 | 13,3 | 15,6 | 17,2 | 19,6 | 23,1 | 26,5 |
| COP | | kW/kW | 4,49 | 4,61 | 4,71 | 4,65 | 4,66 | 4,64 | 4,64 | 4,65 |
| HEATING ONLY (EN14511 VALUE) | | | | | | | | | | |
| Total heating capacity | (3)(2) | kW | 42,5 | 53,2 | 62,8 | 72,8 | 80,4 | 91,2 | 107 | 123 |
| COP | (3)(2) | kW/kW | 4,28 | 4,37 | 4,46 | 4,45 | 4,45 | 4,46 | 4,46 | 4,47 |
| Cooling energy class | | | B | B | A | A | A | A | A | A |
| ENERGY EFFICIENCY | | | | | | | | | | |
| SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281) | | | | | | | | | | |
| Ambient refrigeration | | | | | | | | | | |
| Prated,c | (11) | kW | - | - | - | - | - | - | - | - |
| SEER | (11)(12) | | - | - | - | - | - | - | - | - |
| Performance ηs | (11)(13) | % | - | - | - | - | - | - | - | - |
| SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013) | | | | | | | | | | |
| PDesign | (4) | kW | 51,0 | 63,7 | 75,5 | 87,2 | 96,9 | 110 | 129 | 149 |
| SCOP | (4)(14) | | 5,89 | 5,99 | 5,87 | 6,02 | 6,14 | 6,07 | 6,09 | 6,16 |
| Performance ηs | (4)(15) | % | 228 | 232 | 227 | 233 | 238 | 235 | 236 | 238 |
| Seasonal efficiency class | (4) | | A++ | A++ | A++ | - | - | - | - | - |
| PDesign | (5) | kW | 46,1 | 57,5 | 67,8 | 79,1 | 86,9 | 98,5 | 116 | 133 |
| SCOP | (5)(14) | | 4,62 | 4,68 | 4,73 | 4,78 | 4,80 | 4,79 | 4,80 | 4,85 |
| Performance ηs | (5)(15) | % | 177 | 179 | 181 | 183 | 184 | 184 | 184 | 186 |
| Seasonal efficiency class | (5) | | A++ | A++ | A++ | - | - | - | - | - |
| EXCHANGERS | | | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN REFRIGERATION | | | | | | | | | | |
| Water flow | (1) | l/s | 1,82 | 2,28 | 2,69 | 3,12 | 3,46 | 3,94 | 4,62 | 5,33 |
| Pressure drop | (1) | kPa | 21,6 | 26,6 | 26,7 | 21,8 | 21,6 | 21,8 | 22,7 | 22,9 |
| HEAT EXCHANGER USER SIDE IN HEATING | | | | | | | | | | |
| Water flow | (3) | l/s | 2,67 | 3,35 | 3,99 | 4,62 | 5,09 | 5,78 | 6,81 | 7,82 |
| Pressure drop | (3) | kPa | 46,4 | 57,4 | 59,0 | 47,8 | 46,9 | 47,1 | 49,3 | 49,4 |
| HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION | | | | | | | | | | |
| Water flow | (1) | l/s | 2,18 | 2,72 | 3,19 | 3,71 | 4,11 | 4,68 | 5,50 | 6,34 |
| Pressure drop | (1) | kPa | 11,8 | 15,7 | 18,1 | 20,6 | 23,1 | 13,5 | 14,2 | 14,6 |
| HEAT EXCHANGER SOURCE SIDE IN HEATING | | | | | | | | | | |
| Water flow | (3) | l/s | 2,05 | 2,56 | 3,02 | 3,50 | 3,87 | 4,39 | 5,17 | 5,94 |
| Pressure drop | (3) | kPa | 10,4 | 13,9 | 16,2 | 18,3 | 20,5 | 11,9 | 12,5 | 12,8 |
| REFRIGERANT CIRCUIT | | | | | | | | | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 3,80 | 4,20 | 5,00 | 5,50 | 6,10 | 8,60 | 10,0 | 11,6 |
| NOISE LEVEL | | | | | | | | | | |
| Sound Pressure | (6) | dB(A) | 57 | 57 | 58 | 58 | 58 | 59 | 60 | 60 |
| Sound power level in cooling | (7)(8) | dB(A) | 73 | 73 | 74 | 74 | 74 | 75 | 76 | 77 |
| Sound power level in heating | (7)(9) | dB(A) | 74 | 74 | 75 | 75 | 75 | 76 | 77 | 78 |
| SIZE AND WEIGHT | | | | | | | | | | |
| A | (10) | mm | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1570 |
| B | (10) | mm | 885 | 885 | 885 | 885 | 885 | 885 | 885 | 885 |
| H | (10) | mm | 1495 | 1495 | 1495 | 1495 | 1495 | 1495 | 1495 | 1805 |
| Operating weight | (10) | kg | 360 | 360 | 390 | 410 | 440 | 480 | 520 | 660 |

Notes:

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.

2 Values in compliance with EN14511-3:2013.

3 Plant (side) heating exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger water (in/out) 10°C/7°C.

4 Seasonal space heating energy efficiency class LOW TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]

5 Seasonal space heating energy efficiency class MEDIA TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]

6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

7 Sound power on the basis of measurements made in compliance with ISO 9614.

8 Sound power level in cooling, indoors.

9 Sound power level in heating, indoors.

10 Unit in standard configuration/execution, without optional accessories.

11 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

12 Seasonal space heating energy index

13 Seasonal energy efficiency of the space cooling

14 Seasonal performance coefficient

15 Seasonal space heating energy efficiency

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

| NX-W /H | | 0402 | 0452 | 0502 | 0552 | 0602 | 0702 | 0802 | 0604 |
|---|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Power supply | V/ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| PERFORMANCE | | | | | | | | | |
| COOLING ONLY (GROSS VALUE) | | | | | | | | | |
| Cooling capacity | (1) kW | 126 | 142 | 157 | 181 | 204 | 231 | 254 | 192 |
| Total power input | (1) kW | 24,5 | 27,7 | 30,9 | 35,2 | 39,6 | 45,2 | 51,2 | 38,3 |
| EER | (1) kW/kW | 5,15 | 5,12 | 5,10 | 5,14 | 5,16 | 5,10 | 4,97 | 5,01 |
| ESEER | (1) kW/kW | 6,34 | 6,47 | 6,32 | 6,42 | 6,42 | 6,50 | 6,06 | 6,60 |
| COOLING ONLY (EN14511 VALUE) | | | | | | | | | |
| Cooling capacity | (1)(2) kW | 126 | 141 | 157 | 181 | 204 | 230 | 253 | 191 |
| EER | (1)(2) kW/kW | 4,98 | 4,96 | 4,93 | 4,98 | 5,00 | 4,93 | 4,79 | 4,88 |
| ESEER | (1)(2) kW/kW | 5,95 | 6,04 | 5,92 | 6,00 | 6,01 | 6,03 | 5,63 | 6,14 |
| Cooling energy class | | B | B | B | B | B | B | B | B |
| HEATING ONLY (GROSS VALUE) | | | | | | | | | |
| Total heating capacity | (3) kW | 139 | 157 | 175 | 200 | 226 | 255 | 283 | 212 |
| Total power input | (3) kW | 29,9 | 33,9 | 37,8 | 43,0 | 48,3 | 54,6 | 61,5 | 46,9 |
| COP | kW/kW | 4,65 | 4,63 | 4,62 | 4,66 | 4,67 | 4,68 | 4,61 | 4,51 |
| HEATING ONLY (EN14511 VALUE) | | | | | | | | | |
| Total heating capacity | (3)(2) kW | 139 | 157 | 175 | 201 | 226 | 256 | 284 | 212 |
| COP | (3)(2) kW/kW | 4,48 | 4,47 | 4,46 | 4,49 | 4,51 | 4,49 | 4,40 | 4,40 |
| Cooling energy class | | A | A | A | A | A | A | B | B |
| ENERGY EFFICIENCY | | | | | | | | | |
| SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281) | | | | | | | | | |
| Ambient refrigeration | | | | | | | | | |
| Prated,c | (11) kW | - | - | - | - | - | - | - | - |
| SEER | (11)(12) | - | - | - | - | - | - | - | - |
| Performance ηs | (11)(13) % | - | - | - | - | - | - | - | - |
| SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013) | | | | | | | | | |
| PDesign | (4) kW | 169 | 190 | 211 | 242 | 273 | 308 | 339 | 255 |
| SCOP | (4)(14) | 6,07 | 6,10 | 6,01 | 6,10 | 6,11 | 6,07 | 5,82 | 6,18 |
| Performance ηs | (4)(15) % | 235 | 236 | 232 | 236 | 236 | 235 | 225 | 239 |
| Seasonal efficiency class | (4) | - | - | - | - | - | - | - | - |
| PDesign | (5) kW | 150 | 170 | 189 | 217 | 244 | 277 | 308 | 229 |
| SCOP | (5)(14) | 4,81 | 4,85 | 4,80 | 4,87 | 4,86 | 4,90 | 4,72 | 4,81 |
| Performance ηs | (5)(15) % | 184 | 186 | 184 | 187 | 186 | 188 | 181 | 184 |
| Seasonal efficiency class | (5) | - | - | - | - | - | - | - | - |
| EXCHANGERS | | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN REFRIGERATION | | | | | | | | | |
| Water flow | (1) l/s | 6,03 | 6,78 | 7,53 | 8,66 | 9,78 | 11,02 | 12,16 | 9,17 |
| Pressure drop | (1) kPa | 23,1 | 23,8 | 24,4 | 24,9 | 25,5 | 30,7 | 37,4 | 17,1 |
| HEAT EXCHANGER USER SIDE IN HEATING | | | | | | | | | |
| Water flow | (3) l/s | 8,83 | 9,96 | 11,09 | 12,73 | 14,36 | 16,25 | 17,97 | 13,36 |
| Pressure drop | (3) kPa | 49,6 | 51,4 | 52,9 | 53,8 | 55,1 | 66,7 | 81,6 | 36,3 |
| HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION | | | | | | | | | |
| Water flow | (1) l/s | 7,17 | 8,07 | 8,97 | 10,30 | 11,63 | 13,14 | 14,55 | 10,96 |
| Pressure drop | (1) kPa | 15,4 | 15,9 | 18,5 | 18,3 | 21,0 | 23,5 | 28,8 | 16,2 |
| HEAT EXCHANGER SOURCE SIDE IN HEATING | | | | | | | | | |
| Water flow | (3) l/s | 6,71 | 7,57 | 8,43 | 9,67 | 10,90 | 12,32 | 13,68 | 10,22 |
| Pressure drop | (3) kPa | 13,5 | 14,0 | 16,3 | 16,1 | 18,5 | 20,7 | 25,4 | 14,1 |
| REFRIGERANT CIRCUIT | | | | | | | | | |
| Compressors nr. | N° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| No. Circuits | N° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Refrigerant charge | kg | 13,1 | 14,8 | 15,7 | 18,8 | 21,4 | 22,4 | 22,4 | 19,3 |
| NOISE LEVEL | | | | | | | | | |
| Sound Pressure | (6) dB(A) | 60 | 61 | 61 | 62 | 62 | 65 | 66 | 69 |
| Sound power level in cooling | (7)(8) dB(A) | 77 | 78 | 78 | 79 | 79 | 82 | 83 | 86 |
| Sound power level in heating | (7)(9) dB(A) | 78 | 79 | 79 | 80 | 80 | 83 | 84 | 87 |
| SIZE AND WEIGHT | | | | | | | | | |
| A | (10) mm | 1570 | 1570 | 1570 | 1570 | 1570 | 1570 | 1570 | 2210 |
| B | (10) mm | 885 | 885 | 885 | 885 | 885 | 885 | 885 | 885 |
| H | (10) mm | 1805 | 1805 | 1805 | 1805 | 1805 | 1805 | 1805 | 1805 |
| Operating weight | (10) kg | 740 | 790 | 820 | 870 | 920 | 940 | 960 | 870 |

Notes:

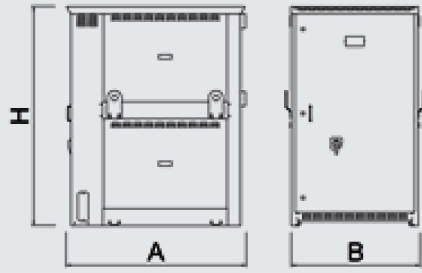
- 1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
 - 2 Values in compliance with EN14511-3:2013.
 - 3 Plant (side) heating exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger water (in/out) 10°C/7°C.
 - 4 Seasonal space heating energy efficiency class LOW TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]
 - 5 Seasonal space heating energy efficiency class MEDIA TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]
 - 6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 - 7 Sound power on the basis of measurements made in compliance with ISO 9614.
 - 8 Sound power level in cooling, indoors.
 - 9 Sound power level in heating, indoors.
 - 10 Unit in standard configuration/execution, without optional accessories.
 - 11 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
 - 12 Seasonal space heating energy index
 - 13 Seasonal energy efficiency of the space cooling
 - 14 Seasonal performance coefficient
 - 15 Seasonal space heating energy efficiency
- The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

| NX-W /H | | | 0704 | 0804 | 0904 | 1004 | 1104 | 1204 |
|---|----------|---------|----------|----------|----------|----------|----------|----------|
| Power supply | | V/ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| PERFORMANCE | | | | | | | | |
| COOLING ONLY (GROSS VALUE) | | | | | | | | |
| Cooling capacity | (1) | kW | 221 | 250 | 281 | 313 | 359 | 398 |
| Total power input | (1) | kW | 43,9 | 49,6 | 56,1 | 62,5 | 71,3 | 80,0 |
| EER | (1) | kW/kW | 5,03 | 5,04 | 5,01 | 5,00 | 5,04 | 4,98 |
| ESEER | (1) | kW/kW | 6,64 | 6,58 | 6,64 | 6,53 | 6,61 | 6,57 |
| COOLING ONLY (EN14511 VALUE) | | | | | | | | |
| Cooling capacity | (1)(2) | kW | 220 | 249 | 281 | 312 | 358 | 397 |
| EER | (1)(2) | kW/kW | 4,91 | 4,91 | 4,88 | 4,86 | 4,89 | 4,81 |
| ESEER | (1)(2) | kW/kW | 6,16 | 6,12 | 6,13 | 6,02 | 6,03 | 5,96 |
| Cooling energy class | | | B | B | B | B | B | B |
| HEATING ONLY (GROSS VALUE) | | | | | | | | |
| Total heating capacity | (3) | kW | 243 | 274 | 309 | 345 | 396 | 440 |
| Total power input | (3) | kW | 53,8 | 60,6 | 68,2 | 76,5 | 87,1 | 98,1 |
| COP | | kW/kW | 4,52 | 4,53 | 4,54 | 4,51 | 4,54 | 4,49 |
| HEATING ONLY (EN14511 VALUE) | | | | | | | | |
| Total heating capacity | (3)(2) | kW | 244 | 275 | 310 | 346 | 396 | 442 |
| COP | (3)(2) | kW/kW | 4,40 | 4,41 | 4,41 | 4,37 | 4,38 | 4,31 |
| Cooling energy class | | | B | B | B | B | B | B |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281) | | | | | | | | |
| Ambient refrigeration | | | | | | | | |
| Prated,c | (11) | kW | - | - | - | - | 358 | 397 |
| SEER | (11)(12) | | - | - | - | - | 5,89 | 5,79 |
| Performance ηs | (11)(13) | % | - | - | - | - | 228 | 224 |
| SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013) | | | | | | | | |
| PDesign | (4) | kW | 294 | 332 | 371 | 416 | - | - |
| SCOP | (4)(14) | | 6,17 | 6,17 | 6,27 | 6,05 | - | - |
| Performance ηs | (4)(15) | % | 239 | 239 | 243 | 234 | - | - |
| Seasonal efficiency class | (4) | | - | - | - | - | - | - |
| PDesign | (5) | kW | 263 | 297 | 335 | 374 | - | - |
| SCOP | (5)(14) | | 4,83 | 4,90 | 4,93 | 4,85 | - | - |
| Performance ηs | (5)(15) | % | 185 | 188 | 189 | 186 | - | - |
| Seasonal efficiency class | (5) | | - | - | - | - | - | - |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN REFRIGERATION | | | | | | | | |
| Water flow | (1) | l/s | 10,57 | 11,96 | 13,45 | 14,95 | 17,18 | 19,05 |
| Pressure drop | (1) | kPa | 18,1 | 20,0 | 21,3 | 24,9 | 28,2 | 34,7 |
| HEAT EXCHANGER USER SIDE IN HEATING | | | | | | | | |
| Water flow | (3) | l/s | 15,34 | 17,33 | 19,54 | 21,77 | 24,99 | 27,73 |
| Pressure drop | (3) | kPa | 38,1 | 42,0 | 45,0 | 52,7 | 59,7 | 73,6 |
| HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION | | | | | | | | |
| Water flow | (1) | l/s | 12,62 | 14,27 | 16,07 | 17,87 | 20,51 | 22,78 |
| Pressure drop | (1) | kPa | 17,4 | 19,6 | 22,0 | 24,8 | 30,0 | 36,2 |
| HEAT EXCHANGER SOURCE SIDE IN HEATING | | | | | | | | |
| Water flow | (3) | l/s | 11,73 | 13,25 | 14,93 | 16,66 | 19,09 | 21,25 |
| Pressure drop | (3) | kPa | 15,1 | 16,9 | 19,0 | 21,6 | 26,0 | 31,5 |
| REFRIGERANT CIRCUIT | | | | | | | | |
| Compressors nr. | | N° | 4 | 4 | 4 | 4 | 4 | 4 |
| No. Circuits | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant charge | | kg | 22,5 | 25,3 | 28,8 | 41,1 | 47,0 | 49,0 |
| NOISE LEVEL | | | | | | | | |
| Sound Pressure | (6) | dB(A) | 70 | 71 | 72 | 73 | 74 | 74 |
| Sound power level in cooling | (7)(8) | dB(A) | 87 | 88 | 89 | 90 | 91 | 91 |
| Sound power level in heating | (7)(9) | dB(A) | 88 | 89 | 90 | 91 | 92 | 92 |
| SIZE AND WEIGHT | | | | | | | | |
| A | (10) | mm | 2210 | 2650 | 2650 | 2650 | 2650 | 2650 |
| B | (10) | mm | 885 | 885 | 885 | 885 | 885 | 885 |
| H | (10) | mm | 1805 | 1805 | 1805 | 1805 | 1805 | 1805 |
| Operating weight | (10) | kg | 1050 | 1240 | 1330 | 1530 | 1630 | 1710 |

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
 - Values in compliance with EN14511-3:2013.
 - Plant (side) heating exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger water (in/out) 10°C/7°C.
 - Seasonal space heating energy efficiency class LOW TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]
 - Seasonal space heating energy efficiency class MEDIA TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]
 - Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 - Sound power on the basis of measurements made in compliance with ISO 9614.
 - Sound power level in cooling, indoors.
 - Sound power level in heating, indoors.
 - Unit in standard configuration/execution, without optional accessories.
 - Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
 - Seasonal space heating energy index
 - Seasonal energy efficiency of the space cooling
 - Seasonal performance coefficient
 - Seasonal space heating energy efficiency
- The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.
Certified data in EUROVENT

Size 0122-802



Size 0604-1204

