

R290



PURPLE HP

NATURAL SOLUTIONS




enerblue

INSPIRED BY NATURE

PURPLE HP



62° | 
Max WATER
temperature

-20° | 
Min. ext. AIR
temperature



Air to water heat pumps with natural refrigerant gas R290. Extended working conditions and very high performances. Equipped with semihermetic reciprocating compressors, axial fan with phase-cut speed control, plates heat exchanger and Al/Cu minitubes coils.

The unit can be equipped with hydronic kit and buffer tank (except sizes 20.1-30.1). Low noise configuration is standard for all the series.

RANGE

Heating capacity (A7;W45) 26 ÷ 221 kW

Cooling capacity (A35;W7) 22 ÷ 181 kW



Reversible



Semi-hermetic
reciprocating
compressors



Axial fans

COMMERCIAL INDUSTRIAL

Highlights of our products



1



GAS LEAK DETECTOR

In case of refrigerant leak inside the compressor box:

- the power supply is disconnected
- the extraction fan (ATEX certified) is switched on to clean the compressor box.

2



ATEX

The ATEX certified extraction fan runs at nominal speed to clean the compressor box.

3



All the components inside the compressor box are ATEX certified: compressors, solenoid valves, EEV. The box is always insulated as standard.

4

Compliant with Ecodesign

TECHNICAL DATA

| UNIT SIZE | | | 8.1 | 10.1 | 12.1 | 15.1 | 20.1 | 22.1 | 25.1 | 30.1 | 32.1 | 35.1 | 40.1 | 50.1 |
|--|---------------|---------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Heating (EN 14511 values) (A7;W45) | | | | | | | | | | | | | | |
| Nominal heating capacity | (1), (7) | kW | 26,8 | 30,2 | 34,2 | 39,8 | 46,9 | 49,7 | 59,7 | 66,1 | 75,0 | 82,6 | 97,4 | 110,9 |
| Total Power input in heating mode | (1), (2), (7) | kW | 8,0 | 9,1 | 9,7 | 11,1 | 12,8 | 13,7 | 16,4 | 18,0 | 21,9 | 23,8 | 28,1 | 32,6 |
| COP | (1), (7) | | 3,33 | 3,34 | 3,55 | 3,59 | 3,66 | 3,63 | 3,64 | 3,67 | 3,42 | 3,46 | 3,46 | 3,40 |
| Energy Seasonal Index | | | | | | | | | | | | | | |
| Fan type | | | AC | | | | | | | | | | | |
| SCOP LT | (11) | | 3,33 | 3,38 | 3,44 | 3,49 | 3,54 | 3,53 | 3,53 | 3,64 | 3,35 | 3,38 | 3,39 | 3,43 |
| Seasonal Energy Efficiency η_{sh} | (11) | % | 130.3 | 132.3 | 134.6 | 136.6 | 138.5 | 138.4 | 138.1 | 142.5 | 131.1 | 132.3 | 132.5 | 134.1 |
| Seasonal Efficiency class | (11) | | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ |
| Energy Seasonal Index | | | | | | | | | | | | | | |
| SCOP MT | (8) | | 2,85 | 2,85 | 2,88 | 2,90 | 2,95 | 2,94 | 2,93 | 3,02 | 2,84 | 2,84 | 2,84 | 2,84 |
| Seasonal Energy Efficiency η_{sh} | (8) | % | 111,0 | 111,0 | 112,2 | 113,0 | 115,0 | 114,6 | 114,2 | 117,8 | 110,0 | 110,5 | 110,0 | 110,0 |
| Seasonal Efficiency class | (8) | | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ |
| Cooling (EN 14511 values) (A35;W7) | | | | | | | | | | | | | | |
| Nominal cooling capacity | (3), (7) | kW | 22,0 | 25,9 | 29,3 | 33,1 | 38,7 | 31,6 | 49,9 | 55,5 | 58,2 | 66,2 | 76,4 | 88,0 |
| Total Power input in cooling mode | (3), (2), (7) | kW | 7,4 | 8,8 | 9,8 | 11,2 | 12,5 | 12,1 | 16,4 | 18,8 | 20,9 | 23,0 | 29,0 | 34,3 |
| EER | (3), (7) | | 2,96 | 2,95 | 3,00 | 2,96 | 3,10 | 2,61 | 3,04 | 2,95 | 2,79 | 2,88 | 2,63 | 2,56 |
| SEER | (10) | | 3,31 | 3,47 | 3,54 | 3,47 | 3,71 | 3,64 | 3,68 | 3,71 | 3,64 | 3,75 | 3,58 | 3,49 |
| Seasonal Energy Efficiency η_{sh} | | % | 129.4 | 135.8 | 138.6 | 135.8 | 145.4 | 142.6 | 144.2 | 145.4 | 142.6 | 147.0 | 140.2 | 136.6 |
| Energy Seasonal Index | | | | | | | | | | | | | | |
| Fan type | | | EC | | | | | | | | | | | |
| SCOP LT | (11) | | 3,78 | 3,94 | 3,92 | 4,01 | 4,26 | 4,25 | 4,36 | 4,45 | 3,96 | 4,16 | 4,08 | 4,06 |
| Seasonal Energy Efficiency η_{sh} | (11) | % | 148 | 155 | 154 | 157 | 167 | 167 | 172 | 175 | 156 | 163 | 160 | 159 |
| Seasonal Efficiency class | (11) | | A+ | A++ | A++ | A++ | A++ | A++ | A++ | A+++ | A++ | A++ | A++ | A++ |
| Energy Seasonal Index | | | | | | | | | | | | | | |
| SCOP MT | (8) | | 3,2 | 3,28 | 3,23 | 3,28 | 3,49 | 3,48 | 3,57 | 3,65 | 3,28 | 3,43 | 3,36 | 3,32 |
| Seasonal Energy Efficiency η_{sh} | (8) | % | 125 | 128 | 126 | 128 | 137 | 136 | 140 | 143 | 128 | 134 | 131 | 130 |
| Seasonal Efficiency class | (8) | | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| Cooling (EN 14511 values) (A35;W7) | | | | | | | | | | | | | | |
| SEER | (10) | | 3,8 | 3,95 | 4,06 | 3,9 | 3,99 | 3,98 | 3,99 | 3,91 | 4,09 | 4,15 | 3,91 | 3,75 |
| Seasonal Energy Efficiency η_{sh} | | % | 149 | 155 | 159 | 153 | 157 | 156 | 157 | 153 | 161 | 163 | 153 | 147 |
| Compressor | | | | | | | | | | | | | | |
| Type | | | Reciprocating | | | | | | | | | | | |
| Quantity/Refrigerant circuits | | n° / n° | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 |
| Capacity steps | | n° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Oil charge | | kg | 1,6 | 1,6 | 2,9 | 2,9 | 2,9 | 4,0 | 4,0 | 4,0 | 4 | 3,7 | 7,2 | 7,2 |
| Refrigerant charge per circuit | | kg | 2,4 | 2,5 | 2,6 | 2,8 | 3,6 | 3,6 | 4,4 | 4,6 | 5,9 | 5,6 | 7,6 | 7,7 |

(1) External air temperature 7°C BS, 6°C BU, Inlet-outlet water 40-45 °C
 (2) Total power input is sum of compressors and fans power input and pump, according with EN 14511
 (3) External air temperature 35°C, Inlet-outlet water 12-7°C .
 (4) Sound power level calculated in compliance with ISO 3744
 (5) Sound pressure level at 1m from the unit calculated in compliance with ISO 3744
 (6) External air temperature 35°C, Inlet-outlet water 12-7°C.
 (7) Values calculate in compliance with EN 14511
 (8) According to European Regulation n° 813/2013 and EN14511 - EN14825 for Climate Average (Strasbourg), User Application: Medium temperature (55°C), Outlet temperature: Variable
 (9) Not subject to Regulation EU No. 811/2013, rated heat output > 70 kW
 (10) Performance according to EN14511 - EN14825 for Climate Average (Strasbourg), User Application: Fan Coil (W7), Outlet water temperature: Variable
 (11) According to European Regulation EN14511 - EN14825 for Climat Average (Strasbourg); User Application: Low temperature (35°C), Outlet temperature: Variable.
 This datasheet gives the characteristic data of the basic and standard versions of the series; for details refer to the specific documentation

| UNIT SIZE | | | 8.1 | 10.1 | 12.1 | 15.1 | 20.1 | 22.1 | 25.1 | 30.1 | 32.1 | 35.1 | 40.1 | 50.1 |
|------------------------------------|----------|-------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Axial Fans | | | | | | | | | | | | | | |
| Quantity | | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Air flow | | m ³ /h | 17.991 | 17.991 | 17.419 | 18.508 | 22.383 | 22.383 | 22.142 | 22.142 | 43.633 | 43.476 | 42.716 | 42.628 |
| User Side exchanger | | | | | | | | | | | | | | |
| Type | | | Plate exchanger | | | | | | | | | | | |
| Water flow rate (A7/W45) | (1) | l/h | 4.643 | 5.239 | 5.927 | 6.898 | 8.126 | 8.611 | 10.340 | 11.460 | 13.030 | 14.640 | 17.080 | 19.590 |
| Pressure drop (A7/W45) | (1) | kPa | 27 | 17 | 22 | 19 | 25 | 26 | 26 | 23 | 24 | 15 | 18 | 18 |
| Hydraulic module | | | | | | | | | | | | | | |
| Pump model | | | P1 | P1 | P2 | P2 | P3 | P3 | P3 | P3 | P3 | P3 | P5 | P5 |
| Nominal Power input of pump | | kW | 0,5 | 0,5 | 0,9 | 0,9 | 1,1 | 1,1 | 1,1 | 1,1 | 1,4 | 1,4 | 2,5 | 2,5 |
| Available pressure head (A7/W45) | (1) | kPa | 177 | 171 | 184 | 170 | 164 | 161 | 155 | 154 | 158 | 158 | 200 | 198 |
| Hydraulic connection | | | | | | | | | | | | | | |
| Connection | | | 1"1/4 | 1"1/4 | 1"1/4 | 1"1/4 | 1"1/2 | 1"1/2 | 1"1/2 | 1"1/2 | 1"1/2 | 2" | 2" | 2" |
| Sound data LN version | | | | | | | | | | | | | | |
| Sound power level | (4), (6) | dB(A) | 73 | 73 | 75 | 75 | 82 | 82 | 83 | 83 | 85 | 85 | 85 | 85 |
| Sound pressure level | (5), (6) | dB(A) | 56 | 56 | 58 | 58 | 64 | 64 | 65 | 65 | 67 | 67 | 67 | 67 |
| Basic unit size and weights | | | | | | | | | | | | | | |
| Width | | mm | 1.940 | 1.940 | 1.940 | 1.940 | 1.791 | 1.791 | 1.791 | 1.791 | 2.880 | 2.880 | 2.880 | 2.880 |
| Depth | | mm | 920 | 920 | 920 | 920 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 |
| Height | | mm | 2.000 | 2.000 | 2.000 | 2.000 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 |
| Delivery weight | | kg | 555 | 571 | 604 | 613 | 728 | 771 | 829 | 838 | 1.021 | 1.065 | 1.082 | 1.093 |
| Operating weight | | kg | 559 | 576 | 610 | 620 | 733 | 776 | 835 | 846 | 1.032 | 1.077 | 1.094 | 1.106 |

(1) External air temperature 7°C BS, 6°C BU, Inlet-outlet water 40-45 °C

(4) Sound power level calculated in compliance with ISO 3744

(5) Sound pressure level at 1m from the unit calculated in compliance with ISO 3744

(6) External air temperature 35°C, Inlet-outlet water 12-7°C.

ELECTRICAL DATA

| UNIT SIZE | | | 8.1 | 10.1 | 12.1 | 15.1 | 20.1 | 22.1 | 25.1 | 30.1 | 32.1 | 35.1 | 40.1 | 50.1 |
|--------------------------|----------|---------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Maximum absorbed power | (1), (3) | kW | 13,7 | 13,5 | 14,6 | 17,2 | 19,7 | 18,3 | 21,9 | 26,0 | 29,2 | 33,9 | 38,8 | 46,3 |
| | | | (14,23) | (14) | (15,87) | (18,47) | (21,03) | (19,62) | (23,2) | (27,35) | (30,55) | (35,25) | (41,25) | (48,75) |
| Maximum current | (2), (3) | A | 24,8 | 24,8 | 26,0 | 26,8 | 40,3 | 34,6 | 41,3 | 48,4 | 51,6 | 62,7 | 69,8 | 83,4 |
| | | | (28,27) | (28,27) | (28,38) | (29,18) | (42,76) | (37,06) | (43,76) | (50,86) | (54,1) | (65,2) | (74,4) | (87,9) |
| Maximum starting current | (4) | A | 91,7 | 91,7 | 63,5 | 79,2 | 91,9 | 111,0 | 122,7 | 137,0 | 153,0 | 153,0 | 168,0 | 197,0 |
| | | | (95,17) | (95,17) | (65,88) | (81,58) | (94,36) | (113,5) | (125,2) | (139,5) | (156) | (156) | (173) | (202) |
| Power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | | | | | | | |
| Auxiliary Power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | | | | | | | |

(1) Mains power supply to allow unit operation

(2) Maximum current before safety cut-outs stop the unit. This value is never exceeded and must be used to size the electrical supply cables and relevant safety devices (refer to electrical wiring diagram supplied with the unit).

(3) Values in brackets refer to ST version units (units with storage tank and pumps or units with exclusively pumps)

(4) Maximum starting current calculated considering the bigger size compressor starting current plus the maximum absorbed power of the other electrical devices (pumps, fans)

| UNIT SIZE | | | 15.2 | 20.2 | 22.2 | 25.2 | 30.2 | 32.2 | 35.2 | 40.2 | 50.2 |
|------------------------------------|---------------|---------|---------------|-------|-------|---------|---------|--------|--------|--------|--------|
| Heating (EN 14511 values) (A7;W45) | | | | | | | | | | | |
| Nominal heating capacity | (1), (7) | kW | 83,8 | 93,8 | 100,6 | 119,5 | 131,9 | 149,8 | 166,9 | 194,9 | 221,7 |
| Total Power input in heating mode | (1), (2), (7) | kW | 23,1 | 25,7 | 27,3 | 32,8 | 36,0 | 43,1 | 47,5 | 56,5 | 65,7 |
| COP | (1), (7) | | 3,63 | 3,65 | 3,68 | 3,64 | 3,66 | 3,47 | 3,52 | 3,45 | 3,38 |
| Energy Seasonal Index | | | | | | | | | | | |
| Fan type | | | AC | | | | | | | | |
| SCOP LT | (11) | | 3,64 | 3,80 | 3,87 | 3,82 | 3,84 | 3,55 | 3,60 | 3,51 | 3,54 |
| Seasonal Energy Efficiency hs | (11) | % | 142,6 | 149,0 | 151,8 | 150,0 | 150,8 | 138,8 | 140,9 | 137,5 | 138,5 |
| Seasonal Efficiency class | (11) | | A+ | A+ | A++ | A+ | A++ | A+ | A+ | A+ | A+ |
| Energy Seasonal Index | | | | | | | | | | | |
| SCOP MT | (8) | | 3,08 | 3,20 | 3,22 | 3,20 | 3,21 | 3,01 | 3,07 | 2,99 | 2,98 |
| Seasonal Energy Efficiency hs | (8) | % | 120,2 | 125,0 | 125,8 | 125,0 | 125,4 | 117,4 | 120,0 | 116,6 | 116,0 |
| Seasonal Efficiency class | (8) | | A+ | A++ | A++ | A++ (9) | A++ (9) | A+ (9) | A+ (9) | A+ (9) | A+ (9) |
| Cooling (EN 14511 values) (A35;W7) | | | | | | | | | | | |
| Nominal cooling capacity | (3), (7) | kW | 70,7 | 79,1 | 84,1 | 98,2 | 111,8 | 118,1 | 137,0 | 162,4 | 181,6 |
| Total Power input in cooling mode | (3), (2), (7) | kW | 22,2 | 25,3 | 27,5 | 33,2 | 37,6 | 42,0 | 45,6 | 52,0 | 69,7 |
| EER | (3), (7) | | 3,18 | 3,13 | 3,05 | 2,96 | 2,97 | 2,82 | 3,01 | 2,32 | 2,60 |
| SEER | (10) | | 3,87 | 3,87 | 3,9 | 3,88 | 3,91 | 3,85 | 3,9 | 3,73 | 3,6 |
| Seasonal Energy Efficiency ηsh | | % | 151,8 | 151,8 | 153,0 | 152,2 | 153,4 | 151,0 | 153,0 | 146,2 | 141,0 |
| Energy Seasonal Index | | | | | | | | | | | |
| Fan type | | | EC | | | | | | | | |
| SCOP LT | (11) | | 4,21 | 4,36 | 4,44 | 4,52 | 4,6 | 4,15 | 4,25 | 4,19 | 4,14 |
| Seasonal Energy Efficiency hs | (11) | % | 165 | 171 | 175 | 178 | 181 | 163 | 167 | 165 | 163 |
| Seasonal Efficiency class | (11) | | A++ | A++ | A++ | A+++ | A+++ | A++ | A++ | A++ | A++ |
| Energy Seasonal Index | | | | | | | | | | | |
| SCOP MT | (8) | | 3,5 | 3,62 | 3,64 | 3,73 | 3,8 | 3,45 | 3,57 | 3,51 | 3,45 |
| Seasonal Energy Efficiency hs | (8) | % | 137 | 142 | 143 | 146 | 149 | 135 | 140 | 138 | 135 |
| Seasonal Efficiency class | (8) | | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| Cooling (EN 14511 values) (A35;W7) | | | | | | | | | | | |
| SEER | (10) | | 4,29 | 4,24 | 4,22 | 4,23 | 4,15 | 4,33 | 4,32 | 4,09 | 3,87 |
| Seasonal Energy Efficiency ηsh | | % | 169 | 167 | 166 | 166 | 163 | 170 | 170 | 161 | 152 |
| Compressor | | | | | | | | | | | |
| Type | | | Reciprocating | | | | | | | | |
| Quantity/Refrigerant circuits | | n° / n° | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 |
| Capacity steps | | n° | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Oil charge | | kg | 2,9 | 2,9 | 4,0 | 4,0 | 4,0 | 4 | 3,7 | 7,2 | 7,2 |
| Refrigerant charge per circuit | | kg | 3,9 | 3,9 | 4,0 | 4,3 | 4,5 | 5,9 | 5,1 | 7,1 | 7,2 |

(1) External air temperature 7°C BS, 6°C BU, Inlet-outlet water 40-45 °C

(2) Total power input is sum of compressors and fans power input and pump, according with EN 14511

(3) External air temperature 35°C, Inlet-outlet water 12-7°C .

(7) Values calculate in compliance with EN 14511

(8) According to European Regulation n° 813/2013 and EN14511 - EN14825 for Climate Average (Strasbourg), User Application: Medium temperature (55°C), Outlet temperature: Variable

(9) Not subject to Regulation EU No. 811/2013, rated heat output > 70 kW

(10) Performance according to EN14511 - EN14825 for Climate Average (Strasbourg), User Application: Fan Coil (W7), Outlet water temperature: Variable

(11) According to European Regulation EN14511 - EN14825 for Climat Average (Strasbourg); User Application: Low temperature (35°C), Outlet temperature: Variable.

This datasheet gives the characteristic data of the basic and standard versions of the series; for details refer to the specific documentation

| UNIT SIZE | | | 15.2 | 20.2 | 22.2 | 25.2 | 30.2 | 32.2 | 35.2 | 40.2 | 50.2 |
|----------------------------------|----------|-------------------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Axial Fans | | | | | | | | | | | |
| Quantity | | n° | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| Air flow | | m ³ /h | 44.766 | 44.766 | 44.765 | 44.285 | 44.284 | 87.456 | 85.989 | 85.444 | 85.254 |
| User Side exchanger | | | | | | | | | | | |
| Type | | | Duble circuit Plate exchanger | | | | | | | | |
| Water flow rate (A7/W45) | (1) | l/h | 14.520 | 16.260 | 17.440 | 20.710 | 22.870 | 26.000 | 28.970 | 34.360 | 39.150 |
| Pressure drops (A7/W45) | (1) | kPa | 33 | 25 | 18 | 25 | 20 | 22 | 27 | 30 | 34 |
| Hydraulic module | | | | | | | | | | | |
| Pump model | | | P4 | P5 | P5 | P5 | P5 | P5 | P6 | P6 | P6 |
| Nominal Power input of pump | | kW | 1,7 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 3,0 | 3,0 | 3,0 |
| Available pressure head (A7/W45) | (1) | kPa | 174 | 186 | 191 | 171 | 163 | 177 | 193 | 184 | 171 |
| Hydraulic connection | | | | | | | | | | | |
| Connection | | | 2" | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" |
| Sound data LN version | | | | | | | | | | | |
| Sound power level | (4), (6) | dB(A) | 86 | 87 | 87 | 89 | 89 | 90 | 90 | 90 | 90 |
| Sound pressure level | (5), (6) | dB(A) | 67 | 68 | 68 | 70 | 70 | 70 | 70 | 70 | 70 |
| Basic unit size and weights | | | | | | | | | | | |
| Width | | mm | 3.330 | 3.330 | 3.330 | 3.330 | 3.330 | 5.320 | 5.320 | 5.320 | 5.320 |
| Depth | | mm | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 | 1.213 |
| Height | | mm | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 | 2.388 |
| Delivery weight | | kg | 1.150 | 1.162 | 1.180 | 1.438 | 1.476 | 1.758 | 1.826 | 1.863 | 1.908 |
| Operating weight | | kg | 1.162 | 1.180 | 1.200 | 1.458 | 1.498 | 1.770 | 1.838 | 1.878 | 1.924 |

(1) External air temperature 7°C BS, 6°C BU, Inlet-outlet water 40-45 °C

(4) Sound power level calculated in compliance with ISO 3744

(5) Sound pressure level at 1m from the unit calculated in compliance with ISO 3744

(6) External air temperature 35°C, Inlet-outlet water 12-7°C.

ELECTRICAL DATA

| UNIT SIZE | | | 15.2 | 20.2 | 22.2 | 25.2 | 30.2 | 32.2 | 35.2 | 40.2 | 50.2 |
|--------------------------|----------|---------|---------------|---------|---------|---------|---------|---------|--------|--------|--------|
| Maximum absorbed power | (1), (3) | kW | 34,4 | 39,4 | 36,6 | 43,7 | 52,0 | 58,4 | 67,8 | 77,6 | 92,6 |
| | | | (35,88) | (41,81) | (39) | (46,15) | (54,45) | (60,85) | (70,8) | (80,6) | (95,6) |
| Maximum current | (2), (3) | A | 53,6 | 80,6 | 69,2 | 82,6 | 96,8 | 103,0 | 125,0 | 140,0 | 167,0 |
| | | | (60,22) | (85,15) | (73,75) | (87,15) | (101,4) | (108) | (132) | (146) | (173) |
| Maximum starting current | (4) | A | 104,8 | 123,1 | 138,6 | 155,2 | 171,5 | 205,0 | 216,0 | 238,0 | 281,0 |
| | | | (111,4) | (127,6) | (143,1) | (159,8) | (176) | (209) | (222) | (244) | (287) |
| Power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | | | | |
| Auxiliary Power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | | | | |

(1) Mains power supply to allow unit operation

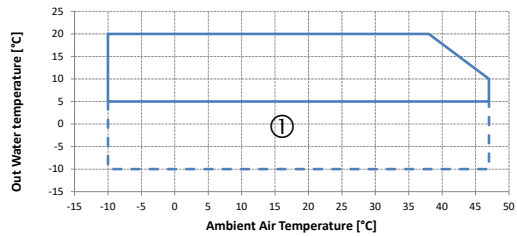
(2) Maximum current before safety cut-outs stop the unit. This value is never exceeded and must be used to size the electrical supply cables and relevant safety devices (refer to electrical wiring diagram supplied with the unit).

(3) Values in brackets refer to ST version units (units with storage tank and pumps or units with exclusively pumps)

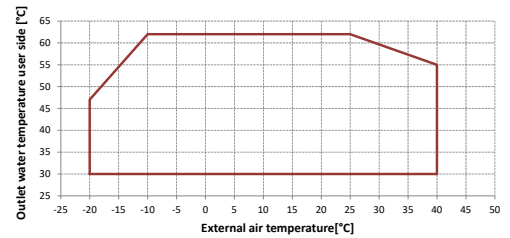
(4) Maximum starting current calculated considering the bigger size compressor starting current plus the maximum absorbed power of the other electrical devices (pumps, fans)

OPERATING LIMITS

COOLING



HEATING



Notes

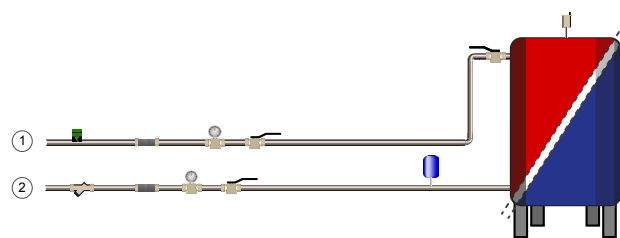
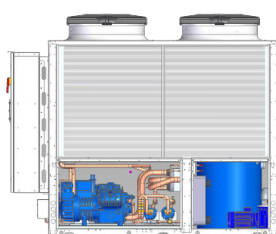
- The delta T to the user side exchanger must be between 3°C and 6°C
- ① The unit can only operate in this area with a water/glycol mixture
- Operating outside the operating limits may cause the safety devices to intervene or serious malfunctions
- The temperature of inlet water to utility side exchanger cannot be less than 25°C
- ■ The unit can work within this field but NOT CONTINUOUSLY
- Within the operating limits, the fan section may be subject to modulation
- Within the operating limits, to limit the outlet water temperature, the unit may be subject to partialization

AVAILABLE VERSIONS

STANDARD

Reversible heat pump for 2-pipe-systems for cooling and heating up to 62°C.

WATER temperature limits

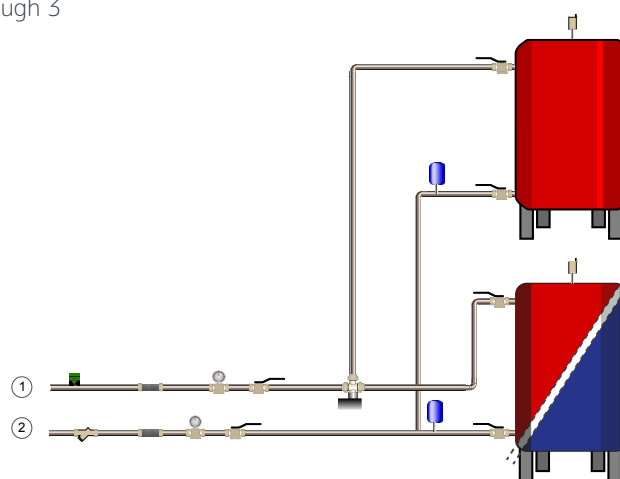
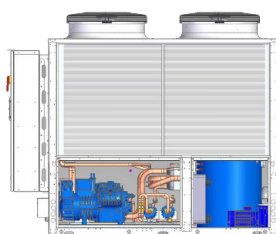


(1/2) In/out user side

62°C
MAX heating

AUTOMATIC MANAGEMENT OF DOMESTIC HOT WATER

Automatic management of domestic hot water through 3 way valve managed directly by the controller.



(1/2) In/out user side

62°C
MAX DHW

62°C
MAX heating

*The buffer tank and pump showed on pictures are available as option.

CONFIGURATIONS

LN Low noise:

Standard



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