

AIR TO WATER OUTDOOR UNITS

PUD-SWM80-120YAA / PUD-SHWM80-140YAA



Efficient air to water outdoor units.

Outdoor units with the refrigerant R32 which has become even more environmentally friendly and more efficient.

Our range of split air to water heat pumps are designed to fit a large area of uses, and offers a profitable solution for those different requirements that real estate requires.

- ✓ A+++
- ✓ Low noise level
- ✓ More environmentally friendly with R32
- ✓ Guaranteed operation down to -25 °C with Power Inverter
- ✓ Guaranteed operation down to - 28°C with Zubadan

R32



SPLIT

Product information

| OUTDOOR UNIT - PUD-SWM / SHWM YAA | | | POWER INVERTER | | | ZUBADAN | | | |
|---|---|-------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|
| OUTDOOR UNIT (MODEL) | | | PUD-SWM80YAA | PUD-SWM100YAA | PUD-SWM120YAA | PUD-SHWM80YAA | PUD-SHWM100YAA | PUD-SHWM120YAA | PUD-SHWM140YAA |
| HEATING | (A) Pdesign / SCOP 35°C* / ηs % | kW/rank/SCOP/% | 8/A+++/4,4/176 | 10/A+++/4,43/177 | 12/A+++/4,4/176 | 8/A+++/4,48/179 | 10/A+++/4,45/178 | 12/A+++/4,43/177 | 14/A+++/4,43/177 |
| | (A) Pdesign / SCOP 55°C* / ηs % | kW/rank/SCOP/% | 8/A+/3,23/130 | 10/A+/3,25/130 | 12/A+/3,2/128 | 8/A+/3,35/134 | 10/A+/3,38/135 | 12/A+/3,35/134 | 14/A+/3,35/134 |
| | (C) Pdesign / SCOP 35°C* / ηs % | kW/rank/SCOP/% | 8/A+/3,45/138 | 10/A+/3,63/145 | 12/A+/3,48/139 | 8/A+/3,58/143 | 10/A+/3,7/148 | 12/A+/3,7/148 | 14/A+/3,6/144 |
| | (C) Pdesign / SCOP 55°C* / ηs % | kW/rank/SCOP/% | 8/A+/2,73/109 | 10/A+/2,73/109 | 12/A+/2,7/108 | 8/A+/2,83/113 | 10/A+/2,85/114 | 12/A+/2,85/114 | 14/A+/2,8/112 |
| | A7/W35 / Capacity / Input / COP**** | kW / kW / COP | 6,0/1,26/4,76 | 8,0/1,6/5,0 | 10,0/2,13/4,70 | 6/1,19/5,03 | 8/1,6/5 | 10/2,08/4,80 | 12/2,55/4,70 |
| | Capacity at -15°C /+35°C | kW | 7,3 | 9 | 10,4 | 8,8 | 10,7 | 12,3 | 14,2 |
| | Capacity at -15°C /+50°C | kW | 6,6 | 8,5 | 9,5 | 8,2 | 10,3 | 12 | 14 |
| | Capacity at -25°C /+45°C | kW | 4,7 | 6,9 | 8 | - | - | - | - |
| | Capacity at -28°C /+45°C | kW | - | - | - | 5,3 | 7,7 | 9,2 | 9,6 |
| | Heating Capacity (Min-Nominal-Max) A2/W35 | kW | 3,1 - 8,0 - 9,3 | 3,2 - 10,0 - 12,1 | 3,2 - 12,0 - 12,7 | 3,1 - 8,0 - 9,5 | 3,2 - 10,0 - 12,4 | 3,2 - 12,0 - 13,2 | 3,5 - 14,0 - 14,6 |
| Heating Capacity (Min-Nominal-Max) A7/W45 | kW | 2,2 - 6,0 - 8,2 | 2,3 - 8,0 - 10,0 | 2,3 - 10,0 - 12,1 | 2,2 - 6,0 - 8,2 | 2,3 - 8,0 - 10,0 | 2,3 - 10,0 - 12,1 | 3,2 - 12,0 - 13,9 | |
| Dimensions (B x H x D) | mm | 1050 x 1020 x 480 | | | | | | | |
| Weight | kg | 114 | 120 | 120 | 115 | 121 | 121 | 122 | |
| Guaranteed operation range heating | °C | -25 | -25 | -25 | -28 | -28 | -28 | -28 | |
| Sound level - Heating (SPL) ** | dB(A) | 42 | 44 | 46 | 42 | 44 | 46 | 48 | |
| Sound level - Heating (PWL) Lwa *** | dB(A) | 56 | 59 | 60 | 56 | 59 | 60 | 62 | |
| Pipe dimension flare (Liquid / Gas) | tum | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 1/2" | |
| Piping length min-max | m | 2-30 | 2-30 | 2-30 | 2-30 | 2-30 | 2-30 | 2-25 | |
| Max. height difference | m | 30 | 30 | 30 | 30 | 30 | 30 | 25 | |
| Recommended breaker size | A | 3 x16 | 3 x16 | 3 x16 | 3 x16 | 3 x16 | 3 x16 | 3 x16 | |
| Operating current (Max) | A | 8 | 10 | 12 | 8 | 10 | 12 | 12 | |
| Electric data | V / Fas / Hz | 400 / 3 / 50 | 400 / 3 / 50 | 400 / 3 / 50 | 400 / 3 / 50 | 400 / 3 / 50 | 400 / 3 / 50 | 400 / 3 / 50 | |
| Flow min / max | l/min | 9 - 22,9 | 14,3 - 34,4 | 14,3 - 34,4 | 9 - 22,9 | 14,3 - 34,4 | 14,3 - 34,4 | 14,3 - 34,4 | |
| Delivered pre filled pipe length | m | 15 | 15 | 15 | 15 | 15 | 15 | 15 | |
| GWP / CO2 EQUIVALENT | | | | | | | | | |
| Refrigerant***** | | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 |
| GWP | | 675 | 675 | 675 | 675 | 675 | 675 | 675 | 675 |
| Refrigerant charge | Weight | kg | 1,3 | 1,6 | 1,6 | 1,4 | 1,7 | 1,7 | 1,7 |
| | CO2-equivalent | ton | 0,88 | 1,08 | 1,08 | 0,95 | 1,15 | 1,15 | 1,15 |
| Max refrigerant charge | Weight | kg | 1,6 | 1,8 | 1,8 | 1,7 | 1,8 | 1,8 | 1,8 |
| | CO2-equivalent | ton | 1,08 | 1,24 | 1,24 | 1,15 | 1,24 | 1,24 | 1,24 |

Indicated data is in combination with EHST20D-YM9D

* The efficiency of the system is reported in combination with the integrated system temperature regulator. If the outdoor parts is installed in another combination, the efficiency must be translated. SCOP Seasonal Coefficient of Performance. Annual average efficiency. SCOP for the average climate zone according to ErP Directive 811/2013.

** Specified at rated power.

*** According to EN12102

**** Reported effect according to EN 14511 including defrosting and part load operation.

***** This product contains refrigerant type R32 with a GWP value of 675 (CO2=1kg)

When interfering with the system, requirements apply according to the current F-gas regulation. This GWP value is based on Directive (EU) 517/2014 of the IPCC 4th edition.

(A) Average climate (C) Cold climate

ACCESSORIES - PUD-SWM / SHWM YAA

| ARTICLE | INFORMATION |
|----------------|--|
| SVH-41T-P1.2 | Quick connector for connecting heating cable. |
| MARKSTATIV AA | Stainless steel stand. Fits all PUZ-YAA. |
| VDR-AA | Angled drip tray for mounting under the drip tray of the outdoor unit. Comes with 3 m heating cable and quick connector. Fits Markstativ AA. |
| SH-AA | Snow and Windshield fit all PUZ-YAA outdoor units. Color: gray / black |
| DP-PUHZ-AA | Stainless steel drip tray with mounted electric heating coil (MAC-AUTO8-E1). Packed heating cable 2 m for installation in drainage. Fits only Markstativ AA. |
| MAC-AUTO3-1,5 | Heating cable 1.5 m incl. klaxon, for installation in drainage drains. |
| MAC-AUTO3-2-E1 | Heating cable 2 m incl. klaxon, for installation in drainage drains. |
| MAC-AUTO3-3-E1 | Heating cable 3 m incl. klaxon, for installation in drainage drains. |
| MAC-AUTOSTART1 | Control heater, complete control with thermostat and residual-current circuit breaker for heating cables. A total of 6 heaters can be controlled. |

TECHNICAL DRAWING (MM) - PUD-SWM / SHWM YAA

