

# AIR TO WATER OUTDOOR UNIT

## POWER INVERTER

PUZ-SWM80YAAH-SC  
PUZ-SWM100YAAH-SC  
PUZ-SWM120YAAH-SC

## ZUBADAN

PUZ-SHWM80YAAH-SC  
PUZ-SHWM100YAAH-SC  
PUZ-SHWM120YAAH-SC  
PUZ-SHWM140YAAH-SC



### Quiet, Efficient, and Designed for the Scandinavian Climate

PUZ-SWM/SHWM outdoor units combine high energy efficiency with reliable performance, making them an excellent choice for your home.

With advanced technology and improved heat recovery, PUZ-SWM/SHWM ensures optimal comfort all year round, even in low outdoor temperatures. Thanks to its quiet operation and compact design, it is easy to install and blends seamlessly into various outdoor environments.

- ✓ Made for Scandinavia
- ✓ Highest energy class A+++
- ✓ Even quieter with noise reduction up to -4 dB
- ✓ Guaranteed operation down to -25°C (Zubadan -30°C)
- ✓ Built-in base tray heater to prevent ice formation
- ✓ Flow temperature up to 70°C
- ✓ Flexible installation with pipe lengths up to 50 meters
- ✓ Designed for both heating and cooling
- ✓ Innovative in-house developed compressor technology

**SPLIT**

**A+++**



# Product information

| TECHNICAL INFORMATION - PUZ-SWM/SHWM YAAH-SC     |                                                    |                | POWER INVERTER        |                        |                        | ZUBADAN               |                        |                        |                        |
|--------------------------------------------------|----------------------------------------------------|----------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|
| OUTDOOR UNIT (MODEL)                             |                                                    |                | PUZ-SWM80<br>YAAH-SC  | PUZ-SWM100<br>YAAH-SC  | PUZ-SWM120<br>YAAH-SC  | PUZ-SHWM80<br>YAAH-SC | PUZ-SHWM100<br>YAAH-SC | PUZ-SHWM120<br>YAAH-SC | PUZ-SHWM140<br>YAAH-SC |
| HEATING                                          | (A) Pdesign / SCOP 35 °C / $\eta_s$ % <sup>1</sup> | kW/rank/SCOP/% | 8,0/<br>A+++/4,66/181 | 10,0/<br>A+++/4,58/178 | 12,1/<br>A+++/4,56/177 | 8,0/<br>A+++/4,76/185 | 10,0/<br>A+++/4,71/183 | 12,1/<br>A+++/4,64/180 | 14,0/<br>A+++/4,69/182 |
|                                                  | (A) Pdesign / SCOP 55 °C / $\eta_s$ % <sup>1</sup> | kW/rank/SCOP/% | 8,0/<br>A+++/3,32/129 | 10,0/<br>A+++/3,40/132 | 12,1/<br>A+++/3,37/131 | 8,0/<br>A+++/3,40/132 | 10,0/<br>A+++/3,50/136 | 12,1/<br>A+++/3,53/137 | 14,0/<br>A+++/3,63/141 |
|                                                  | (C) Pdesign / SCOP 35 °C / $\eta_s$ % <sup>1</sup> | kW/rank/SCOP/% | 8,0/<br>A+++/3,61/140 | 10,0/<br>A+++/3,76/146 | 12,1/<br>A+++/3,58/139 | 8,0/<br>A+++/3,73/145 | 10,0/<br>A+++/3,79/147 | 12,1/<br>A+++/3,81/148 | 14,0/<br>A+++/3,89/151 |
|                                                  | (C) Pdesign / SCOP 55 °C / $\eta_s$ % <sup>1</sup> | kW/rank/SCOP/% | 8,0/A+/2,86/111       | 10,0/A+/2,78/108       | 12,1/A+/2,78/108       | 8,0/A+/2,94/114       | 10,0/A+/2,96/115       | 12,1/A+/3,01/117       | 14,0/A+/2,96/115       |
|                                                  | Capacity (A7/W35) / Input / COP <sup>2</sup>       | kW / kW / COP  | 8,9/1,77/5,02         | 10,90/2,17/5,02        | 12,90/2,65/4,87        | 8,90/1,76/5,05        | 10,90/2,16/5,05        | 12,90/2,63/4,90        | 14,40/2,97/4,85        |
|                                                  | Capacity at -15°C / +35°C                          | kW             | 7,3                   | 9,0                    | 10,4                   | 8,8                   | 10,7                   | 12,3                   | 14,2                   |
|                                                  | Capacity at -15°C / +55°C                          | kW             | 5,7                   | 7,3                    | 8,3                    | 6,0                   | 9,2                    | 11,2                   | 11,7                   |
|                                                  | Capacity at -25°C / +45°C                          | kW             | 4,7                   | 6,9                    | 8,0                    | -                     | -                      | -                      | -                      |
|                                                  | Capacity at -30°C / +50°C                          | kW             | -                     | -                      | -                      | 4,4                   | 8,0                    | 9,0                    | 10,0                   |
|                                                  | Heating Capacity (Min-Nominal-Max) A2/W35          |                | 3,10-8,00-9,30        | 3,20-10,00-12,10       | 3,20-12,10-12,70       | 3,10-8,00-9,50        | 3,20-10,00-12,40       | 3,20-12,10-13,20       | 3,50-14,00-14,60       |
|                                                  | Heating Capacity (Min-Nominal-Max) A7/W55          | kW             | 1,70-4,00-7,50        | 1,70-7,00-9,20         | 1,70-7,00-11,20        | 1,70-4,00-7,50        | 1,70-7,00-9,20         | 1,70-7,00-11,20        | 2,70-7,00-12,60        |
| COOLING                                          | EER A35/W7 °C                                      | EER            | 3,3                   | 3                      | 2,86                   | 3,30                  | 3,00                   | 2,86                   | 2,62                   |
|                                                  | Cooling Capacity (Max - Min) A30/W7 °C             | kW             | 8,5 - 2,3             | 9,8 - 2,3              | 10,9 - 2,3             | 8,5 - 2,3             | 9,8 - 2,3              | 10,9 - 2,3             | 13,3 - 3,4             |
| Dimensions (W x H x D)                           |                                                    | mm             | 1050 x 1040 x 480     |                        |                        |                       |                        |                        |                        |
| Weight                                           |                                                    | kg             | 114,5                 | 114,5                  | 125,5                  | 116                   | 116                    | 126,5                  | 127                    |
| Guaranteed operation range (Heating)             |                                                    | °C             | -25                   | -25                    | -25                    | -30                   | -30                    | -30                    | -30                    |
| Sound level - Heating (SPL) <sup>3</sup>         |                                                    | dB(A)          | 41                    | 44                     | 45                     | 41                    | 44                     | 45                     | 46                     |
| Sound level - Heating (PWL) Lwa <sup>4</sup>     |                                                    | dB(A)          | 54                    | 58                     | 58                     | 54                    | 58                     | 58                     | 58                     |
| Refrigerant pipe connection flare (Liquid / Gas) |                                                    | inch           | 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"            |
| Pipe length (Min - Max) <sup>5</sup>             |                                                    | m              | 2 - 50                | 2 - 50                 | 2 - 30                 | 2 - 50                | 2 - 50                 | 2 - 30                 | 2 - 30                 |
| Max height difference                            |                                                    | m              | 30                    | 30                     | 30                     | 30                    | 30                     | 30                     | 30                     |
| Recommended breaker size                         |                                                    | A              | 3 x 16                | 3 x 16                 | 3 x 16                 | 3 x 16                | 3 x 16                 | 3 x 16                 | 3 x 16                 |
| Operating current (Max)                          |                                                    | A              | 8                     | 9                      | 12                     | 8                     | 9                      | 12                     | 12                     |
| Electric data                                    |                                                    | V / Phase / Hz | 400/3-Phase/50        | 400/3-Phase/50         | 400/3-Phase/50         | 400/3-Phase/50        | 400/3-Phase/50         | 400/3-Phase/50         | 400/3-Phase/50         |
| Flow (Min - Max)                                 |                                                    | l/min          | 7,2 - 22,9            | 7,2 - 28,7             | 10,0 - 34,4            | 7,2 - 22,9            | 7,2 - 28,7             | 10,0 - 34,4            | 10,0 - 34,4            |
| Delivered pre-filled <sup>5</sup>                |                                                    | m              | 35                    | 35                     | 30                     | 35                    | 35                     | 30                     | 30                     |
| Refrigerant / GWP <sup>6</sup>                   |                                                    |                | R32 / 675             | R32 / 675              | R32 / 675              | R32 / 675             | R32 / 675              | R32 / 675              | R32 / 675              |
| Refrigerant charge                               | Weight/CO2-equivalent                              | kg / ton       | 1,8 / 1,215           | 1,8 / 1,215            | 1,8 / 1,215            | 1,8 / 1,215           | 1,8 / 1,215            | 1,8 / 1,215            | 1,8 / 1,215            |
| Max refrigerant charge                           | Weight/CO2-equivalent                              | kg / ton       | 2,4 / 1,62            | 2,4 / 1,62             | 2,4 / 1,62             | 2,4 / 1,62            | 2,4 / 1,62             | 2,4 / 1,62             | 2,4 / 1,62             |

The provided data is in combination with ERST20F-YM9E.

(A) Moderate climate (C) Cold climate

<sup>1</sup> SCOP (Seasonal Coefficient of Performance) / Annual Average Efficiency – Climate zones according to ErP Directive 811/2013 (A+++ to D). The system's efficiency is stated with the built-in temperature controller. When combined with another outdoor unit, efficiency must be adjusted.

<sup>2</sup> Declared output according to EN 14511, including defrosting and part-load operation.

<sup>3</sup> Specified at nominal output.

<sup>4</sup> According to EN 12102.

<sup>5</sup> This product contains refrigerant type R32 with a GWP value of 675 (CO<sub>2</sub> = 1kg). This GWP value is based on EU Directive 517/2014 from the IPCC 4th edition. When interfering with the system, the requirements of the applicable F-gas regulation must be followed.

## ACCESSORIES - PUZ-SWM / SHWM YAAH-SC

| ARTICLE           | INFORMATION                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MARKSTATIV-AA-YDA | Stainless steel stand.                                                                                                                                            |
| VDR-AA            | Angle drip tray for mounting under the outdoor unit's drip tray. Fits MARKSTATIV-AA-YDA.                                                                          |
| DP-AA-YDA         | Heating cable (MAC-AUTO3-3-E2, operating temperature Min -40°C / Max +180°C) and quick connector (SVH-41T-P1.3) included.                                         |
| SH-AA             | Stainless steel drip tray with pre-installed fixed electric heating element (MAC-AUTO8-E1, operating temperature Min -40°C / Max +180°C). Fits MARKSTATIV-AA-YDA. |
| SH-AA             | Snow and wind hood.                                                                                                                                               |
| PAC-SC36NA-E      | Capacity limitation for the outdoor unit.                                                                                                                         |
| MAC-AUTO3-1,5-E2  | 1.5 m heating cable incl. thermostat for installation in drainage outlets. Operating temperature Min -40°C / Max +180°C.                                          |
| MAC-AUTO3-3-E2    | 3 m heating cable incl. thermostat for installation in drainage outlets. Operating temperature Min -40°C / Max +180°C.                                            |
| MAC-AUTOSTART1-E2 | Complete heater control with thermostat and ground fault circuit breaker for heating cables. Can control up to 6 heaters.                                         |

| TECHNICAL DRAWING      | MM   |      |     |     |     |
|------------------------|------|------|-----|-----|-----|
| MODELS                 | A    | B    | C   | D   | E   |
| PUZ-SWM / SHWM YAAH-SC | 1040 | 1050 | 480 | 225 | 520 |

