



# **Heating**

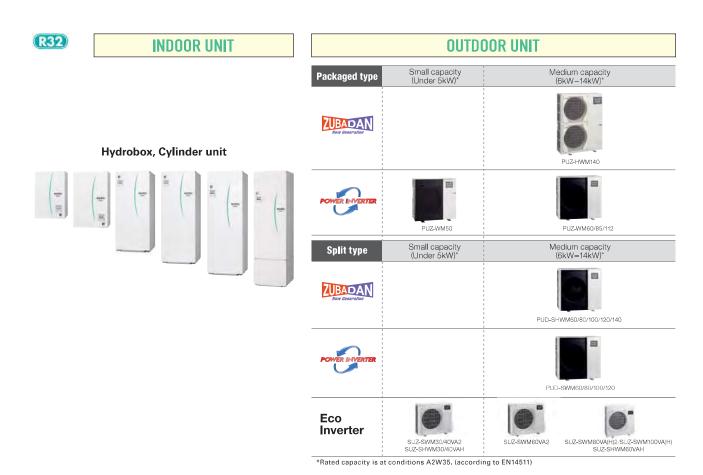
Hydronic heat pumps





# **SELECTION** Choose the series that best matches the building layout.

# Excellent ecodan's heating performance, even at low outdoor temperature!



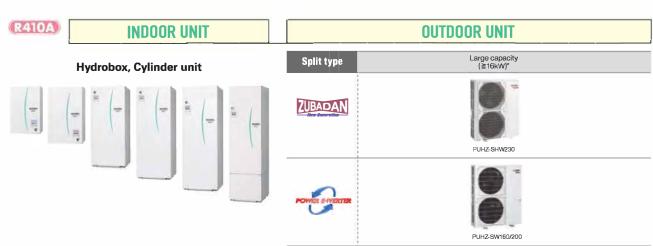
Hydrobox, Cylinder unit

Split type

Medium capacity
(6kW–14kW)\*

PUHZ-SHWM80/80/100/120/140

PUHZ-SHWM80/80/100/120/140



<sup>\*</sup>Rated capacity is at conditions A2W35. (according to EN14511)

| Other ATW-related system | Mr.SLIM+   | PUMY + ecodan     | PXZ + ecodan |
|--------------------------|------------|-------------------|--------------|
|                          | R410A      | R410A             | R32          |
|                          |            | 0                 | PXZ-4F75VG   |
|                          |            |                   | 0            |
|                          | PUHZ-FRP71 | PUMY-P112/125/140 | PXZ-5F85VG   |

# **New R32 Eco Inverter Line-up**

### Wider line-up

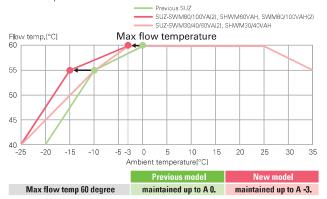
Standard/Hyper heating/Standard with base heater models are available.

|          | SUZ Series                               | 3kW | 4kW | 6kW      | 8kW | 10kW     |
|----------|--|-----|-----|----------|-----|----------|
| Previous | Standard<br>SUZ-SWM                      | _   | 1   | <b>√</b> | 1   | _        |
|          | Standard<br>SUZ-SWM                      | 1   | 1   | ✓        | 1   | <b>✓</b> |
| New      | Hyper Heating* with base heater SUZ-SHWM | 1   | 1   | 1        | _   | _        |
|          | Standard with base heater<br>SUZ-SWM     | _   | _   | _        | 1   | 1        |

<sup>\*</sup>Hyper Heating model: Keep 100% heating capacity at -15°C.

## Performance Guaranteed Range Expansion for Max Outlet Water Temperature

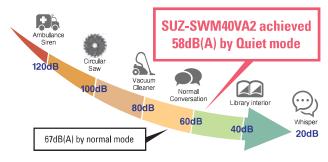
New SUZ achieved to keep max outlet water temperature of 60°C in ambient -3°C. Especially Standard 80/100, Hyper Heating 60, and Standard with base heater 80/100 models can also keep max outlet water temperature of 55°C in ambient -15°C.



#### Quiet mode

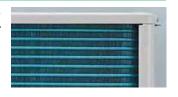
Once Quiet mode is activated using the remote controller, SUZ's sound volume becomes lower than normal mode. There are 2 Quiet mode levels in SUZ.

- \*Outdoor condition is A-7W35.
  \*The cooling and heating capacity may drop if this function is activated.
- \*Sound power level values are based on EN12102



### Blue fin

A special coating is applied to the heat exchanger to improve corrosion toughness.





Standard SUZ-SWM30/40/60VA(2)

Hyper Heating with base heater SUZ-SHWM30/40VAH



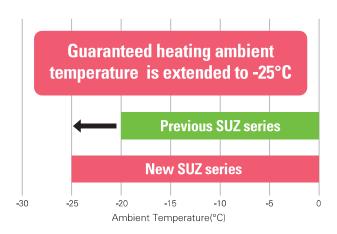
Standard SUZ-SWM80/100VA(2)

Hyper Heating with base heater

SUZ-SHWM60VAH Standard with base heater SUZ-SWM80/100VAH(2)

# Performance Guaranteed Range Expansion

Performance guaranteed range is extended to -25°C.



## Improved flexibility for installation

The minimum piping length is reduced to 2m, and the maximum piping length is extended to 46m for SUZ-SWM80/100VA(2), SHWM60VAH, SWM80/100VAH(2)

This enables for flexible installation in any wider properties.

|                                    | 30            | 40            | 60    | 80            | 100           |
|------------------------------------|---------------|---------------|-------|---------------|---------------|
| Standard [m]                       | <b>2-26</b> * | <b>2-26</b> * | 2-26* | <b>2-46</b> * | <b>2-46</b> * |
| Hyper Heating with base heater [m] | <b>2-26</b> * | 2-26*         | 2-46* | -             | -             |
| Standard with base heater [m]      | -             | -             | -     | 2-46*         | 2-46*         |

<sup>\*</sup> When piping length is longer than 26m or 46m, please make sure to consult separately.

# PUMY+ecodan

Air-to-Air and Air-to-Water Hybrid Multi Split System

1 Unit, 2 Roles - Total Comfort Year-round

Air Conditioning and Hot Water Supply Matching the Needs of Each Room

#### All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

#### **PUMY for Air-to-Air**

PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

#### ecodan for Air-to-Water

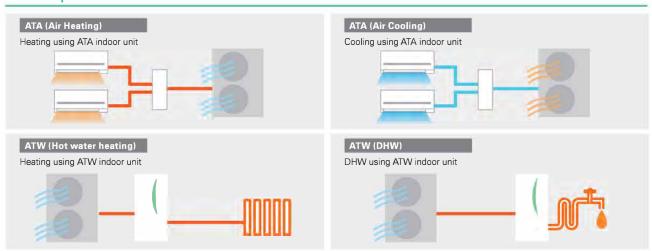
- ✓Domestic hot water (DHW) supply
  ✓Heating for multiple rooms
- ATA indoor units

  Branch
  box

  Outdoor unit

  PUMY + ecodan system

# **Main Operation Patterns**



## **Optional Operation Patterns\* (simultaneous)**



| Model name   |                            |  |                           |                   |                 | PUMY-<br>P112VKM6                   | PUMY-<br>P125VKM6  | PUMY-<br>P140VKM6 | PUMY-<br>P112YKM5 | PUMY-<br>P125YKM5  | PUMY-<br>P140YKM5 |  |
|--------------|----------------------------|--|---------------------------|-------------------|-----------------|-------------------------------------|--------------------|-------------------|-------------------|--------------------|-------------------|--|
| Power supply |                            |  |                           |                   |                 | 1-pha                               | se 220 - 230 - 240 | V, 50Hz           | 3-pha             | se 380 - 400 - 415 | V, 50Hz           |  |
| Air-to-Air   | Cooling                    | Capacity   |                           |                   | kW              | 12.5                                | 14.0               | 15.5              | 12.5              | 14.0               | 15.5              |  |
| (ATA)        | (nominal)*1                | Power input  |                           |                   | kW              | 4.34                                | 5.00               | 5.17              | 4.34              | 5.00               | 5.17              |  |
|              |                            | EER  |                           |                   |                 | 2.88                                | 2.80               | 3.00              | 2,88              | 2.80               | 3.00              |  |
|              | Temp. range                | Indoor temp.   |                           |                   | W.B.            |                                     |                    |                   | 24°C              |                    |                   |  |
|              | of cooling Outdoor temp.*2 |  |                           |                   | D.B.            |                                     |                    | -5 -              | 52°C              |                    |                   |  |
|              | Heating                    | Capacity   |                           |                   | kW              | 14.0                                | 16.0               | 18.0              | 14.0              | 16,0               | 18,0              |  |
|              | (nominal)*1                | Power input  |                           |                   | kW              | 3.49                                | 4.06               | 4.63              | 3.49              | 4.06               | 4.63              |  |
|              |                            | COP  |                           |                   |                 | 4.01 3.94 3.89 4.01 3.94 3.89       |                    |                   |                   |                    |                   |  |
|              | Temp range                 | Indoor temp.   |                           |                   | W.B.            | 15 - 27°C                           |                    |                   |                   |                    |                   |  |
|              | of heating                 | Outdoor temp.  |                           |                   | D.B.            |                                     |                    | -20 -             |                   |                    |                   |  |
| Air-to-Water |                            | rate (for heatin   | ř .                       |                   | L/min           |                                     |                    | 35                |                   |                    |                   |  |
| (ATW)        | Heating*3                  | A7W35  | Capacity                  | kW<br>kW          |                 |                                     |                    | 2.5               |                   |                    |                   |  |
|              |                            |  | Power input               |                   |                 |                                     |                    |                   | 06                |                    |                   |  |
|              |                            |  | COP                       |                   | kW              |                                     |                    |                   | 08                |                    |                   |  |
|              |                            | A2W35  | Capacity                  |                   |                 |                                     |                    |                   | 1.0               |                    |                   |  |
|              |                            |  | Power input               | kW                |                 |                                     |                    | 50                |                   |                    |                   |  |
|              |                            |  | COP                       |                   |                 |                                     |                    |                   | 86                |                    |                   |  |
|              | Guaranteed operating       | ATW  | Heating D,I               |                   |                 |                                     |                    | -20 -             |                   |                    |                   |  |
|              | range                      |  | DHW                       |                   | D.B.            | -20 - +35°C<br>7 - +21°C            |                    |                   |                   |                    |                   |  |
|              | "                          | ATA + ATW  | ATA heating + DI          |                   | D.B.            |                                     |                    |                   |                   |                    |                   |  |
|              | NA: 1:: 0                  | ATA heating + ATW heating   AT |                           |                   |                 |                                     |                    |                   |                   |                    |                   |  |
| Outdoor      | Indoor unit                | ATA  |                           |                   | °C              | 50 to 130% of outdoor unit capacity |                    |                   |                   |                    |                   |  |
| unit         | connectable                | only   | Total capacity Model/     | Branch box system |                 | 15-100/8                            | 15-100/8           | 15-100/8          | 15-100/8          | y<br>15-100/8      | 15-100/8          |  |
|              |                            | ,   0,,  | Quantity                  | Mixed system*12   |                 | 15-100/8                            | 15-140*5/10*6      | 15-140*5/10*6     | 15-140*5/10       | 15-140*5/10*6      | 15-140*5/10*6     |  |
|              |                            | ATA + ATW individual operation   |                           |                   | wiixeu systeiii |                                     |                    | ATA : Max 130% c  |                   |                    |                   |  |
|              |                            |  | individual Model/Quantity | Branch box system |                 | 15-100/8                            | 15-100/8           | 15-100/8          | 15-100/8          | 15-100/8           | 15-100/8          |  |
|              |                            |  |                           | Mixed system*12   |                 | 15-140*5/10                         | 15-140*5/10*6      | 15-140*5/10*6     | 15-140*5/10       | 15-140*5/10*6      | 15-140*5/10*6     |  |
|              |                            | ATA + ATW  | Total capacity            | IWIIAGU SYSTEIII  |                 |                                     | Max 100% of outd   |                   |                   |                    |                   |  |
|              |                            | simultaneous   | Model/Quantity ATA*12     |                   |                 | 15/1*8                              | 15-25/2*9          | 15-42*11/3*10     | 15/1*8            | 15-25/2*9          | 15-42*11/3*10     |  |
|              |                            | operation  | Woderadulity              | ATW               |                 | 13/1                                | 13-23/2            | ATW (EHST20       |                   | 10-20/2            | 10-42 /0          |  |
|              | Sound pressi               | ire level (measi   | red in anechoic ro        |                   | dB <a></a>      | 49 / 51                             | 50 / 52            | 51 / 53           | 49 / 51           | 50 / 52            | 51 / 53           |  |
|              |                            |  | d in anechoic roor        |                   | dB <a></a>      | 69 / 71                             | 70 / 72            | 71 / 73           | 69 / 71           | 70 / 72            | 71 / 73           |  |
|              |                            | iping diameter   |                           | Liquid pipe       | mm              |                                     |                    | 9.52              |                   |                    |                   |  |
|              |                            | ,,,  |                           | Gas pipe          | mm              | 15.88 flare                         |                    |                   |                   |                    |                   |  |
|              | Fan                        | Type x Quantit   | V                         |                   |                 |                                     |                    | Propelle          |                   |                    |                   |  |
|              |                            | Airflow rate   | ,                         |                   | m³/min          |                                     |                    | 11                | 0                 |                    |                   |  |
|              |                            |  |                           |                   | L/s             |                                     |                    | 1,8               | 83                |                    |                   |  |
|              |                            |  |                           |                   | cfm             | 3,884                               |                    |                   |                   |                    |                   |  |
|              |                            | Motor output   |                           |                   | kW              | 0.074 + 0.074                       |                    |                   |                   |                    |                   |  |
|              | Compressor                 | Type x Quantit   | У                         |                   |                 |                                     |                    | Scroll hermetic   | compressor x 1    |                    |                   |  |
|              |                            | Starting metho   | od                        |                   |                 |                                     |                    | Inve              | <u> </u>          |                    |                   |  |
|              |                            | Motor output   |                           |                   | kW              | 2,9                                 | 3.5                | 3,9               | 2,9               | 3.5                | 3.9               |  |
|              | External dime              | ensions (H × W >   | < D)                      |                   | mm              |                                     |                    | 1,338 × 1,05      | 0 × 330 (+40)     |                    |                   |  |
|              | 144 1 1 1                  | Weight   |                           |                   |                 |                                     | 123                |                   | V                 | KM: 125 /YKME: 1   | 126               |  |

| * | 1 |  |
|---|---|--|

|         | Indoor            | Outdoor         | Piping length | Level difference |
|---------|-------------------|-----------------|---------------|------------------|
| Cooling | 27°C DB / 19°C WB | 35°C DB         | <b>7.</b> 5m  | 0m               |
| Heating | 20°C DB           | 7°C DB / 6°C WB | 7,5m          | 0m               |

- \*2 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM, PFFY-P20/25/32VLE(R)M, PEFY-P\*VMA3 or M, S and P series indoor unit.
  \*3 In the case of ATW single connection. Input to circulation pump is not included.
  \*4 In the case of simultaneous operation of ATA heating and ATW heating, target flow temperature range is restricted to 45-55°C and when the ambient temp is under 7°C, the flow temp is lowered.
  \*5 Up to P100 when connecting via branch box.

- \*5 Up to P100 when connecting via branch box.

  \*6 Up to 11 units when connecting via 2 branch boxes.

  \*7 Only one ecodan unit can be connected.

  \*8 Exceptionally, one MSZ-SF15VA or MSZ-AP15VF can be connected.

  \*9 Exceptionally, two MSZ-SF15VA or MSZ-AP15VF can be connected.

  \*10 Exceptionally, three MSZ-SF15VA or MSZ-AP15VF can be connected.

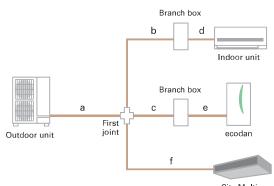
  \*11 In the case of City Multi connection, maxmum is P32.

  \*12 PKFY and PFFY series are not connectable.

#### Piping specifications

| m   | 150*             | a+b+c+d+e+f  |  |  |
|-----|------------------|--|--|--|
| m   | 80               | a+b+d or a+c+e   |  |  |
| ''' | 85               | a+f  |  |  |
| m   | 55               | a+b+c  |  |  |
| m   | 95               | d+e  |  |  |
| m   | 30               | b or c or f  |  |  |
| m   | 25               | d or e   |  |  |
| m   | 50 / 40          |  |  |  |
|     | m<br>m<br>m<br>m | m     80       85     85       m     55       m     95       m     30       m     25 |  |  |





# PUMY+ecodan Compatibility Table

## ATW branch box connection compatibility table

| Series | Type     | Model name     | Compatibility | Type  | Model name  | Compatibility | Type   | Model name | Compatibility |
|--------|----------|----------------|---------------|-------|-------------|---------------|--------|------------|---------------|
| ATW    | Cylinder | EHST20C-VM2/6D | •             | Hydro | EHSC-VM2/6D | •             | Branch | PAC-MK53BC |               |
|        | unit     | EHST20C-YM9D   | •             | box   | EHSC-YM9D   | •             | box    | PAC-MK33BC |               |

## Connectable indoor unit capacity

For individual operation ATA+ATW (no simultaneous operation) ATA: Max 130% of outdoor unit capacity + ATW (EHST20C or EHSC)

| Outdoor capacity 12.5kW                        |   |
|--|---|
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | Connectable ATA indoor unit total capacity: Max.16.2kW (130%) |
| Outdoor capacity 14.0kW                        |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | Connectable ATA indoor unit total capacity: Max.18.2kW (130%) |
| Outdoor capacity 15.5kW                        |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | Connectable ATA indoor unit total capacity: Max.20.2kW (130%) |

For simultaneous operation of ATA+ATW  $\,$  Max 100% of outdoor unit capacity: ATA + ATW (EHST20C or EHSC)

|  |                                    | -            |   |
|--|------------------------------------|--------------|---|
| Outdoor capacity 12.5kW                        |                                    |              |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | ATA capacity Max. 1.3kW *Exception | ally, one MS | Z-SF15VA or MSZ-AP15VF can be connected.                                  |
| Outdoor capacity 14.0kW                        |                                    |              |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | ATA capacity<br>Max. 2.8kW         | *Exception   | nally, two units of MSZ-SF15VA or MSZ-AP15VF can be connected.            |
| Outdoor capacity 15.5kW                        |                                    |              |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | ATA capacity Ma                    | ıx. 4.3kW    | *Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be connected. |



# SplitType Specifications

|  |                   |            |             | NEW              | NEW              | NEW              | NEW              | NEW                | NEW               | NEW                             | NEW               |
|--|-------------------|------------|-------------|------------------|------------------|------------------|------------------|--------------------|-------------------|---------------------------------|-------------------|
| Outdoor                                | runit             |            |             |                  |                  |                  | Eco In           | verter             |                   |                                 |                   |
| Outdoor                                | umi               |            |             | Standard model   |                  |                  |                  | Hyper Heat         | ing model         | Standard with base heater model |                   |
| Model name                             |                   |            |             | SUZ-<br>SWM40VA2 | SUZ-<br>SWM60VA2 | SUZ-<br>SWM80VA2 | SUZ-<br>SWM100VA | SUZ-<br>SHWM40VAH  | SUZ-<br>SHWM60VAH | SUZ-<br>SWM80VAH2               | SUZ-<br>SWM100VAH |
| Refrigerant                            |                   |            |             |                  |                  |                  | R3               | 2*1                |                   |                                 |                   |
| Dimensions HxWxD mm                    |                   | mm         | 714×800×285 | 714×800×285      | 880×840×330      | 880×840×330      | 714×800×285      | 880×840×330        | 880×840×330       | 880×840×330                     |                   |
| Weight                                 |                   |            | kg          | 39               | 40               | 53               | 53               | 40                 | 53.5              | 53.5                            | 53.5              |
| Power suppl                            | ly (V / Phase / I | Hz)        |             |                  |                  |                  | 230 / 1-         | -ph / 50           |                   |                                 |                   |
| Heating                                | A7W35*2           | Nominal    | kW          | 3.0              | 5.0              | 6.0              | 7.5              | 3.0                | 5.0               | 6.0                             | 7.5               |
|  |                   | COP        |             | 5.11             | 4.85             | 5.10             | 4.85             | 4.77               | 4.95              | 5.10                            | 4.85              |
|  | A2W35*2           | Nominal    | kW          | 4.0              | 6.0              | 7.5              | 9.0              | 4.0                | 6.0               | 7.5                             | 9.0               |
|  |                   | COP        |             | 3.90             | 3.62             | 3.50             | 3.12             | 3.61               | 3.47              | 3.31                            | 3.00              |
| Average climate water outlet 35°C*3 ηS |                   |            | A+++        | A+++             | A+++             | A+++             | A+++             | A+++               | A+++              | A+++                            |                   |
|  |                   |            | 200%        | 189%             | 187%             | 182%             | 176%             | 178%               | 178%              | 177%                            |                   |
| Average clin                           |                   | Class      |             | A++              | A++              | A++              | A++              | A++                | A++               | A++                             | A++               |
| outlet 55°C*                           | 3                 | ηS         |             | 135%             | 136%             | 135%             | 134%             | 126%               | 128%              | 130%                            | 129%              |
| DHW 200L L                             | .oad              | Class      |             | A <sup>+</sup>   | A <sup>+</sup>   | A+               | A <sup>+</sup>   | A <sup>+</sup>     | A <sup>+</sup>    | A <sup>+</sup>                  | A <sup>+</sup>    |
| Profile*4                              |                   | ηwh        |             | 147%             | 142%             | 142%             | 142%             | 142%               | 144%              | 142%                            | 142%              |
| Max outlet v                           | vater temperat    | ture       | °C          | 60               | 60               | 60               | 60               | 60                 | 60                | 60                              | 60                |
| Cooling                                | A35W7*2           | Nominal    | kW          | 4.5              | 5.0              | 6.7              | 7.3              | 4.5                | 6.0               | 6.7                             | 7.3               |
|  |                   | EER        |             | 3.31             | 3.18             | 3.20             | 3.00             | 3.33               | 3.28              | 3.20                            | 3.00              |
|  | A35W18*2          | Nominal    | kW          | 5.6              | 6.0              | 6.7              | 8.1              | 5.6                | 6.0               | 6.7                             | 8.1               |
|  |                   | EER        |             | 4.71             | 4.65             | 5.06             | 4.44             | 4.70               | 5.21              | 5.06                            | 4.44              |
| PWL (Heatin                            | g)* <sup>5</sup>  |            | dB(A)       | 57               | 60               | 60               | 62               | 58                 | 60                | 60                              | 62                |
| Max operati                            | ng current        |            | А           | 13.5             | 13.5             | 17.3             | 17.3             | 13.5               | 17.3              | 17.3                            | 17.3              |
| Breaker size                           |                   |            | А           | 16               | 16               | 20/16*6          | 20/16*6          | 16                 | 20/16*6           | 20/16*6                         | 20/16*6           |
| Piping                                 | Diameter          | Liquid/Gas | mm          | 6.35/12.7        | 6.35/12.7        | 6.35/12.7        | 6.35/12.7        | 6.35/12.7          | 6.35/12.7         | 6.35/12.7                       | 6.35/12.7         |
|  | Length            | Out-In     | m           | 2-26             | 2-26             | 2-46             | 2-46             | 2-26               | 2-46              | 2-46                            | 2-46              |
|  | Height            | Out-In     | m           | Max. 26          | Max. 26          | Max. 30          | Max. 30          | Max. 26            | Max. 30           | Max. 30                         | Max. 30           |
| Guaranteed                             | Heating           |            | °C          | -25°C~24°C       | -25°C~24°C       | -25°C~24°C       | -25°C~24°C       | <b>-</b> 25°C~24°C | -25°C~24°C        | -25°C~24°C                      | -25°C~24°C        |
| Operating<br>Range                     | DHW               |            | °C          | -25°C~35°C       | -25°C~35°C       | -25°C~35°C       | -25°C~35°C       | <b>–</b> 25°C~35°C | -25°C~35°C        | -25°C~35°C                      | -25°C~35°C        |
|  | Cooling           |            | °C          | 10°C~46°C        | 10°C~46°C        | 10°C~46°C        | 10°C~46°C        | 10°C~46°C          | 10°C~46°C         | 10°C~46°C                       | 10°C~46°C         |

|                         |                  |            |       | Pow                | er Inverter, Heating o | only                |                         | ZUBADAN, I           | Heating only         |                      |
|-------------------------|------------------|------------|-------|--------------------|------------------------|---------------------|-------------------------|----------------------|----------------------|----------------------|
| Model name              |                  |            |       | PUD-<br>SWM80V/YAA | PUD-<br>SWM100V/YAA    | PUD-<br>SWM120V/YAA | PUD-<br>SHWM80V/YAA     | PUD-<br>SHWM100V/YAA | PUD-<br>SHWM120V/YAA | PUD-<br>SHWM140V/YAA |
| Refrigerant             |                  |            |       |                    |                        |                     | R32*1                   |                      |                      |                      |
| Dimensions              |                  | H×W×D      | mm    | 1020×1050×480      | 1020×1050×480          | 1020×1050×480       | 1020×1050×480           | 1020×1050×480        | 1020×1050×480        | 1020×1050×480        |
| Weight                  |                  |            | kg    | 101/114            | 105/118                | 105/118             | 102/115                 | 108/121              | 108/121              | 110/122              |
| Power supply            | / (V / Phase / F | lz)        |       |                    |                        | VAA: 230 /          | 1-ph / 50, YAA: 400 / 3 | -ph / 50             |                      |                      |
| Heating                 | A7W35*2          | Nominal    | kW    | 6.0                | 8.0                    | 10.0                | 6.0                     | 8.0                  | 10.0                 | 12.0                 |
|                         |                  | COP        |       | 4.76               | 5.00                   | 4.70                | 5.03                    | 5.00                 | 4.80                 | 4.70                 |
|                         | A2W35*2          | Nominal    | kW    | 8.0                | 10.0                   | 12.0                | 8.0                     | 10.0                 | 12.0                 | 14.0                 |
|                         |                  | COP        |       | 3.55               | 3.30                   | 3.24                | 3.75                    | 3.45                 | 3.30                 | 3.05                 |
| Average clim            |                  | Class      |       | A+++               | A+++                   | A+++                | A+++                    | A+++                 | A+++                 | A+++                 |
| outlet 35°C*3           | ı                | ηs         |       | 178%/176%          | 178%/177%              | 177%/176%           | 181%/179%               | 180%/178%            | 179%/177%            | 179%/177%            |
| Average clim            |                  | Class      |       | A++                | A++                    | A++                 | A++                     | A++                  | A++                  | A++                  |
| outlet 55°C*3           | 1                | ης         |       | 131%/130%          | 131%/130%              | 129%/128%           | 135%/134%               | 136%/135%            | 135%/134%            | 134%/134%            |
| DHW 200L(L)             |                  | Class      |       | A+ / A             | A+ / A                 | A+/A                | A+/A                    | A+ / A               | A+ / A               | A+/A                 |
| Profile (Averag         | ge climate)*4    | ηwh        |       | 141%               | 141%                   | 141%                | 141%                    | 141%                 | 141%                 | 136%                 |
| Max outlet w            | ater temperat    | ure        | °C    | 60                 | 60                     | 60                  | 60                      | 60                   | 60                   | 60                   |
| PWL (Heating            | g)* <sup>5</sup> |            | dB(A) | 56                 | 59                     | 60                  | 56                      | 59                   | 60                   | 62                   |
| Max operation           | g current        |            | Α     | 22/8               | 26/10                  | 28/12               | 22/8                    | 26/10                | 28/12                | 35/12                |
| Breaker size            |                  |            | А     | 25/16              | 30/16                  | 32/16               | 25/16                   | 30/16                | 32/16                | 40/16                |
| Piping                  | Diameter         | Liquid/Gas | mm    | 6.35/12.7          | 6.35/12.7              | 6.35/12.7           | 6.35/12.7               | 6.35/12.7            | 6.35/12.7            | 6.35/12.7            |
|                         | Length           | Out-In     | m     | 2 - 30             | 2 - 30                 | 2 - 30              | 2 - 30                  | 2 - 30               | 2 - 30               | 2 - 25               |
|                         | Height           | Out-In     | m     | Max. 30            | Max. 30                | Max. 30             | Max. 30                 | Max. 30              | Max. 30              | Max. 25              |
| Guaranteed<br>Operating | Heating          |            | °C    | <b>-</b> 25°C~24°C | -25°C~24°C             | <b>–</b> 25°C~24°C  | -28°C~24°C              | <b>–</b> 28°C~24°C   | -28°C~24°C           | -28°C~24°C           |
| Range                   | DHW              |            | °C    | −25°C~35°C         | -25°C~35°C             | −25°C~35°C          | -28°C~35°C              | -28°C~35°C           | -28°C~35°C           | −28°C~35°C           |

<sup>\*1</sup> Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*2 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.). \*3 \( \text{ s values are measured based on EN14825.} \)

\*4 \( \text{ why values are measured based on EN16147.} \) \*5 \( \text{ Sound power levels are measured based on EN12102.} \) \*6 \( \text{ In case of jumper wire cut.} \)





# SplitType Specifications

| Dutdoo   | . am              |            |       | Powe                       | er Inverter                    |  |
|--|-------------------|------------|-------|----------------------------|--------------------------------|--|
| Model name   |                   |            |       | PUHZ-<br>SW160YKA(-BS)     | PUHZ-<br>SW200YKA(-BS)         |  |
| Refrigerant  |                   |            |       | R4                         | 110A*1                         |  |
| Dimensions   |                   | H×W×D      | mm    | 1338×1050×330              | 1338×1050×330                  |  |
| Weight kg  |                   |            | kg    | 136                        | 136                            |  |
| Power supp   | ly (V / Phase / H | z)         | •     | VAA, VHA: 230 / 1-ph / 50, | YAA, YHA, YKA: 400 / 3-ph / 50 |  |
| Heating  | A7W35*2           | Nominal    | kW    | 22.0                       | 25.0                           |  |
|  |                   | COP        |       | 4.20                       | 4.00                           |  |
|  | A2W35*2           | Nominal    | kW    | 16.0                       | 20.0                           |  |
|  |                   | COP        |       | 3.11                       | 2.80                           |  |
| Average clim   | nate water        | Class      |       | A++                        | A++                            |  |
| outlet 35°C*   | :3                | ηs         |       | 161 163                    |                                |  |
| Average climate water outlet 55°C*3                      |                   | Class      |       | A++ A++                    |                                |  |
|  |                   | ηs         |       | 125 127                    |                                |  |
| DHW 200L(L)/300L(XL) Load<br>Profile (Average climate)*4 |                   | Class      |       | -                          | -                              |  |
|  |                   | ηwh        |       | =                          | -                              |  |
| Max outlet v   | water temperati   | re (°C)    |       | -                          | -                              |  |
| Cooling  | A35W7*2           | Nominal    | kW    | 16.0                       | 20.0                           |  |
| ·  |                   | EER        |       | 2.76                       | 2.25                           |  |
|  | A35W18*2          | Nominal    | kW    | 18.0                       | 22.0                           |  |
|  |                   | EER        |       | 4.56                       | 4.1                            |  |
| PWL (Heating)*5 dB(A)                                    |                   |            | dB(A) | 78                         | 78                             |  |
| Max operating current                                    |                   |            | Α     | 19.0                       | 21.0                           |  |
| Breaker size   |                   |            | Α     | 25                         | 32                             |  |
| Piping   | Diameter          | Liquid/Gas | mm    | 9.52/25.4                  | 12.7/25.4                      |  |
|  | Length            | Out-In     | m     | 80                         | 80                             |  |
|  | Height            | Out-In     | m     | 30                         | 30                             |  |
| Guaranteed<br>Operating<br>Range                         | Heating           |            | °C    | –20°C~21°C                 | −20°C~21°C                     |  |
|  | DHW               |            | °C    | −20°C~35°C                 | -20°C~35°C                     |  |
|  | Cooling           |            | °C    | −15°C~46°C                 | -15°C~46°C                     |  |

|                    |                 |              |       | ZUBADAN   |
|--------------------|-----------------|--------------|-------|---|
| Model name         |                 |              |       | PUHZ-<br>SHW230YKA2                                       |
| Refrigerant        |                 | AS .         |       | R410A*1   |
| Dimensions         |                 | HxWxD        | mm    | 1338×1050×330   |
| Weight             |                 |              | kg    | 143   |
| Power supply       | (V / Phase / H  | z)           | v     | VAA, VHA: 230 / 1-ph / 50, YAA, YHA, YKA: 400 / 3-ph / 50 |
| Heating            | A7W35*2         | Nominal      | kW    | 23.0  |
|                    |                 | СОР          |       | 3.65  |
|                    | A2W35*2         | Nominal      | kW    | 23.0  |
|                    |                 | COP          |       | 2.37  |
| Average clim       | ate water       | Class        |       | A++   |
| outlet 35°C*3      |                 | ηs           |       | 164   |
| Average clim       | ate water       | Class        |       | A++   |
| outlet 55°C*3      |                 | ηs           |       | 127   |
|                    | 300L(XL) Load   | Class        |       | -   |
| Profile (Averaç    | ge climate)*4   | ηwh          |       | -   |
| Max outlet w       | ater temperati  | re (°C)      |       | 60  |
| Cooling            | A35W7*2         | Nominal      | kW    | 20.0  |
|                    |                 | EER          |       | 2.22  |
|                    | A35W18*2        | Nominal      | kW    | 20.0  |
|                    |                 | EER          |       | 3.55  |
| PWL (Heating       | )* <sup>5</sup> |              | dB(A) | 75  |
| Max operatin       | g current       |              | Α     | 20  |
| Breaker size       |                 |              | Α     | 25  |
| Piping             | Diameter        | Liquid/Gas   | mm    | 12.7/25.4   |
|                    | Length          | Out-In       | m     | 80  |
|                    | Height          | eight Out-In |       | 30  |
| Guaranteed         | Heating         | •            | °C    | −25°C~21°C  |
| Operating<br>Range | DHW             |              | °C    | −25°C~35°C  |
| -                  | Cooling         |              | °C    | −15°C~46°C  |

<sup>\*1</sup> Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).

\*3 \( \text{18} \) values are measured based on EN14825. \*4 \( \text{Nwh} \) values are measured based on EN16147. \*5 \( \text{Sound power levels are measured based on EN12102}.

