⚠ NOTICE

- Do not install indoor units in areas (e.g. mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.
- Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A (GWP: 2088) or R32 (GWP: 675). *These GWP values are based on Regulation (EU) No.517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP: 1975), R32 (GWP: 550)
- When installing or relocating or servicing our air-conditioning equipment, use only the specified refrigerant (R410A or R32) to charge the refrigerant lines.
- Do not mix it with any other refrigerant and do not allow air to remain in the lines.

If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.

The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN http:///Global.MitsubishiElectric.com/

Full Product Catalogue - Heating 2022 (Air to water) E-2203260(17360) sostituisce E-2203259(17331)







New publication, effective Jan. 2022.



Environmental Sustainability Vision 2050

Environmental Declaration

Protect the air, land, and water with our hearts and technologies to sustain a better future for all.



Environmental Sustainability Vision 2 0 5 0 To solve various factors that lead to environment issues, the Mitsubishi Electric Group shall unite the wishes of each and every person, and strive to create new value for a sustainable future.

Three Environmental Action Guidelines

1

Apply diverse technologies in wide-ranging business areas to solve environmental

2

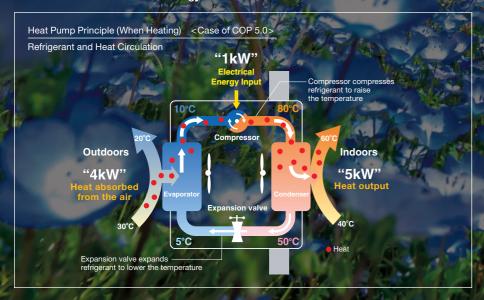
Challenge to develop business innovations for future generations 3

Publicize and share new values and lifestyles

Key Initiatives

- Climate Change Measures
 Resource Circulation
- Live in Harmony with Nature
- Long-term Activities
- Innovation
- Nurturing Human
- Understanding Needs
- Co-create and
- Disseminate New Values
- Live in Harmony with the

Heat pump technology inspires Mitsubishi Electric to design air conditioners that harmonize comfort and ecology.

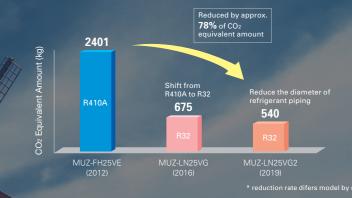


Mitsubishi Electric takes on the challenge of creating new value and contribute to a sustainable future in order to solve various environmental problems.

Preventing Global Warming

Mitsubishi Electric is actively introducing R32 refrigerant which has a global warming potential approximately 1/3 that of R410A refrigerant. Not only by shifting from R410A to R32 but by decreasing the diameter of refrigerant piping, we are also striving to reduce the amount of refrigerant usage. Throught these activities, we have achieved significant reduction in CO₂ equivalent amount compared to conventional models and realised minimizing the negative impact to the environment more than ever.

Reducing the amount of refrigerant usage



Effective use of materials (Reduce & Recycle)

- Accelerating the downsizing technology to reduce material use while balancing energy saving performance.
- 2. Designing products that are easy to separate and recycle
- 3. All models are designed for WEEE and RoHS (II) compliance.*

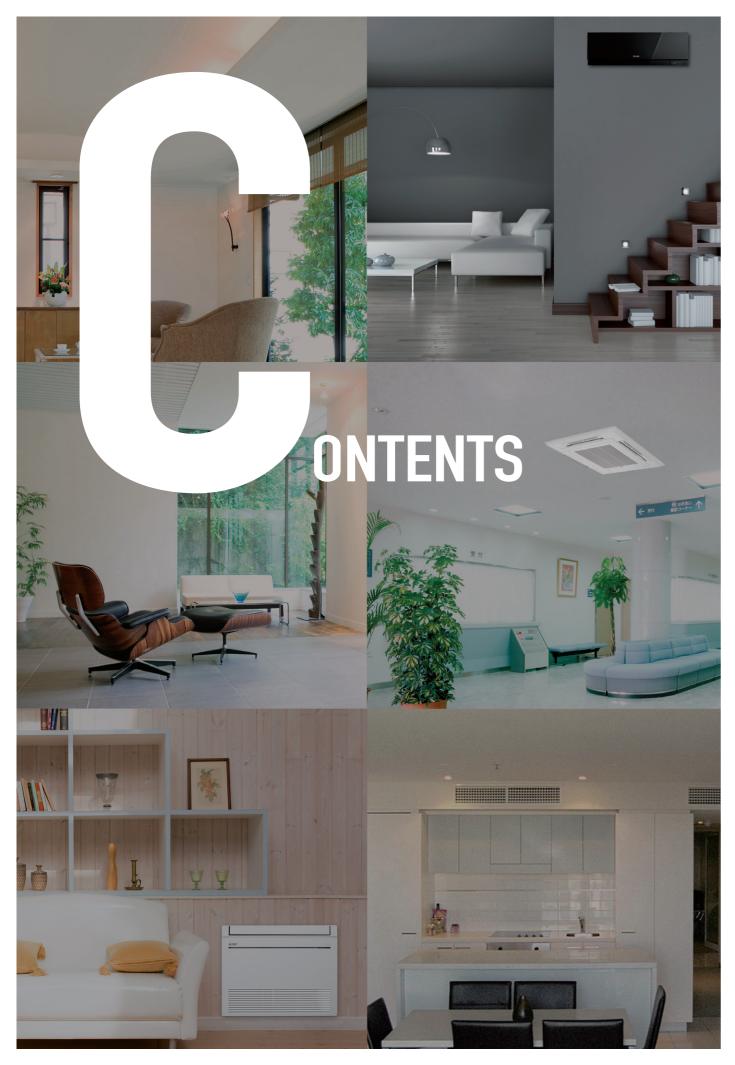
WEEE and RoHS directive: The Waste Electrical and Electronic Equipment (WEEE) Directive is a recycling directive for this type for equipment, while the Restrictions of Hazardous Substances (RoHS) Directive is an EU directive estricting the use of ten specified substances in electronic and electrical devices. In the EU, it is no longer possible (from July 2019) to selfproducts containing any of the ten substances.

Balancing comfort and ecology

Mitsubishi Electric develops technologies to balance comfort and ecology, achieving greater efficiency in heat pump operation.

| | Comfort | Ecology |
|--|--|---|
| 1. Inverter | Faster start-up and more stable indoor temperature than non-inverter units. | Fewer On/Off operations than with non-inverter, saving energy. |
| 2. 3D i-see Sensor | Since the positions of people can be detected, airflow can be set to personal taste, such as in airflow path or protected from the wind. The ability to adjust to individual preferences realizes more comfortable air conditioning. | Since the number of people in a room can be detected, energy-saving operation is adjusted or the power is turned off automatically. Efficient air conditioning with less waste is realized. |
| 3. Flash Injection | Achieves high heating capacity even at low temperatures, plus faster start-up compared to conventional inverters. | Expands heat pump heating system to the cold regions to replace combustion heaters. |
| 4. Dual Barrier Coating Dual Barrier Material | Prevents the indoor unit from getting dirty, delivering you clean air. | Keeping the inside of air conditioner clean leads to efficient operation and energy saving. |

FEATURES & SPECIFICATION ----- 007-043

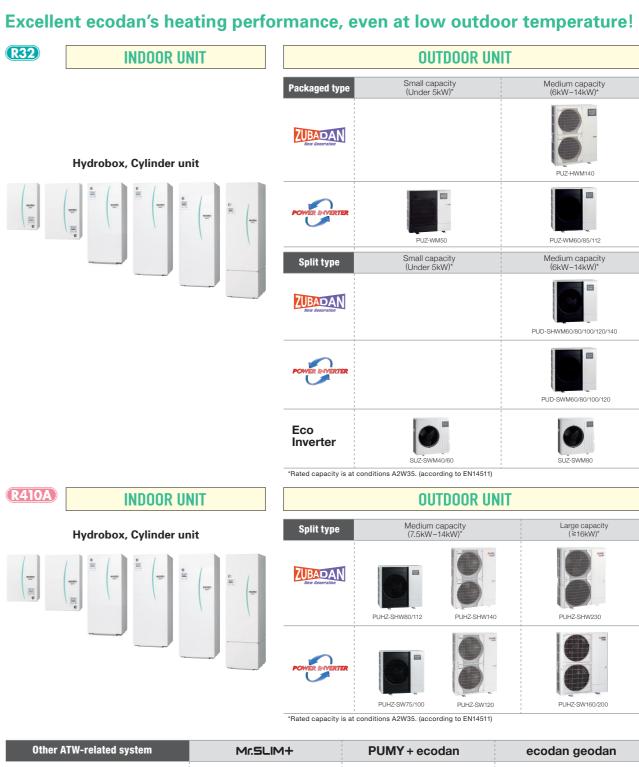








SELECTION Choose the series that best matches the building layout.



Other ATW-related system

Mr.SLIM+

PUMY + ecodan

ecodan geodan

R410A

R410A

PUMY-P112/125/140

EHGT17D-YM9ED

New Eco-design Directive

What is the ErP Directive?

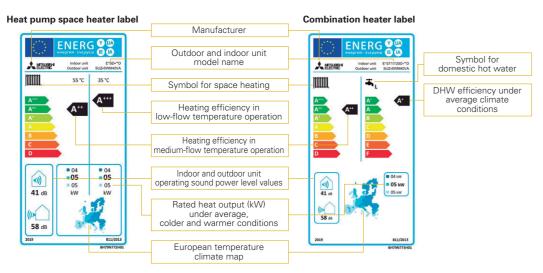
The Eco-design Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum cleaners, boilers and even windows are classified in terms of environmental performance. Labelling regulations that apply to our ATW heat pumps came into effect from September 26, 2015, and then revised from September 26, 2019.

New energy label and measurements

Under directive 2009/125/EC, ATW heat pumps of up to 70kW are required to show their heating efficiency on the energy label. The purpose of the energy label is to inform customers about the energy efficiency of a heating unit. The efficiency for space heating is ranked from A⁺⁺⁺ to D (from September 2019). In the case of domestic hot water, it is from A⁺ to F (from September 2019).

Product label

This label is for individual heating units, such as an ecodan heat pump. Typically, the space heater label is used for ecodan systems with a hydrobox, and the combination heater label is used for ecodan systems with a cylinder unit.



These labels are delivered with all ecodan outdoor units.

What is the package label?

A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from A^{+++} to G.

Creating the package label is the responsibility of the installers and distributors. A useful tool on the Mitsubishi Electric website is available to easily create the labels for ecodan products and controllers.

http://erp.mitsubishielectric.eu/erp/options

Package label

This label is for heating systems that use several energy-related products, such as a controller or a solar thermal system.

Package space heater label Package combination heater label ENERG V (IA) Sample Sam

Customised package labels including ecodan heat pumps and the FTC6 controller can be created on the Mitsubishi Flectric website.

New R32 Eco Inverter Line-up

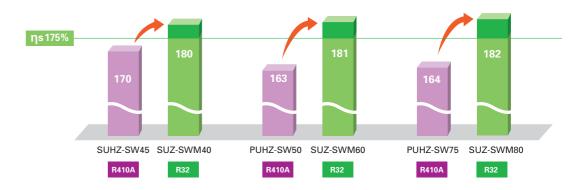
Energy Efficient and Environmentally Friendly Heating

- Wide variety of product line with R32 refrigerant
- More energy efficient than conventional eco inverter models



High Performance

All models have achieved the "RANK A+++" for SCOP at low temperature.



Low Noise

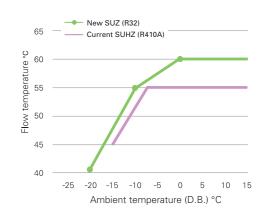
Compared with conventional outdoor unit, New R32 eco inverter achieved lower noise level, assuring the flexibility of installation in dense residential areas.



*Compared SUZ-SWM40/60/80VA with SUHZ-SW45VA/PUHZ-SW50VKA/PUHZ-SW75VHA
*Rated condition (According to EN12102)

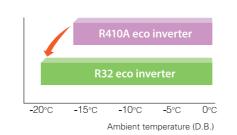
60°C Flow Temperature

Along with its increased lower operating range the New R32 range is capable of delivering a higher flow rate of 60°C, 5°C higher than the conventional model.

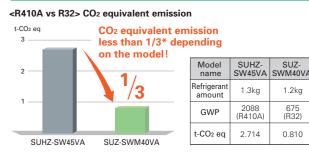


Guaranteed Operating Range Expansion

Guaranteed heating operating range is extended to -20°C.



Reducing Refrigerant Amount



^{*}Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088 (R410A) and 675 (R32).

Dedicated Heat Pump for Residence

GOOD DESIGN reddot award 2018

1,020mm

Stylish and Compact

The Stylish Design and Compact Size Harmonises Residential Application

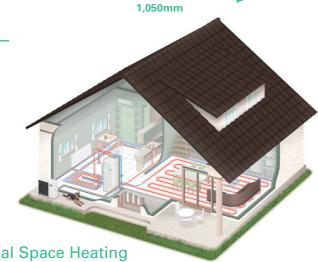
- Simple and elegant design by rounding left and right corners of the unit.
- Concealing the fan by matching the panel and the grille in dark colour.
- Unified shape and safety by setting the fan whole backwards and matching the grille on the same level of the front panel.
- Wider lineup with environmental-friendly R32 refrigerant.

High Performance

New Compressor

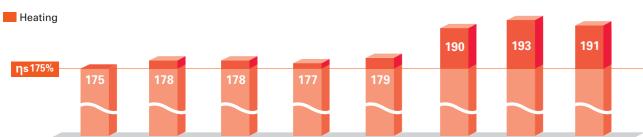


- Compact
- High performance
- Flash injection**ZUBADAN (SHWM) only



ErP Lot 1 Compliant with Highest Seasonal Space Heating Energy Efficiency Class A+++

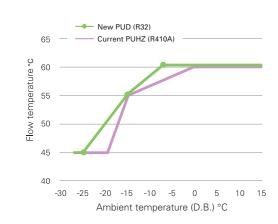
All models have achieved the "RANK A+++" for SCOP at low temperature.



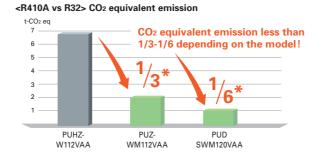
PUD-SWM60VAA PUD-SWM80VAA PUD-SWM100VAA PUD-SWM120VAA PUD-SHWM140VAA PUZ-WM60VAA PUZ-WM85VAA PUZ-WM112VAA

60°C Flow Temperature at Low Ambient Temperature

60°C max flow temprature can be maintained up to Ambient –7°C. (For PUD-S(H)WM models)



Reducing Refrigerant Amount



| Model name | PUHZ-W112VAA | PUZ-WM112VAA | PUD-SWM120VAA | |
|--------------------|--------------|--------------|---------------|--|
| Refrigerant amount | 3.3kg | 3.0kg | 1.6kg | |
| GWP | 2088 (R410A) | 675 (R32) | 675 (R32) | |
| t-CO2 eq | 6.890 | 2.025 | 1.080 | |

^{*}Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value

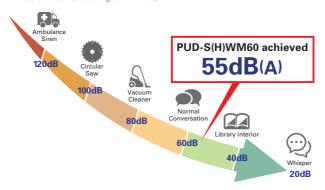
Comparison of 2088(R410A) and 675 (R32)

Compact with Silence

Noise Reduction-10dB(A)

Mitsubishi Electric heat pumps are designed to give you highly efficient and eco-friendly heating with 10dB(A) less in PWL. Compared with conventional models.

*Rated condition (According to EN12102)



Blowing Air

To Reduce Fan Noise

- Optimising fan position
- Optimising bell mouth shape
- Bigger fan diameter



Enclosing Noise

Shutting Out Noise from Compressor

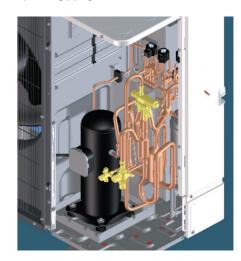
The structure of double enclosing

Primary: enclosing a compressor (the structure is patented.) Secondary: enclosing machine room.



Avoiding Vibration and Resonance

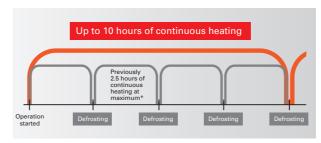
- Dedicated soft rubber mount for the compressor to avoid vibration.
- Optimising piping structure to avoid vibration and resonance.



New Control for Eco-friendly Heating

Defrost Improvement

Conventional models often switch to defrost operation even when there is not much frost on outdoor units. By detecting frost more precisely, it is possible to prevent frequent on/off for defrosting and to give you more comfort.



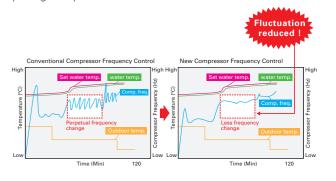
^{*}Comparison between prior PUHZ-SHW-AA model and new PUD-S(H)WM-AA model.

Maximum number of operational hours at our Company's laboratory (sexternal temperature –15°C).

Hours of continuous operation may differ depending on external temperature conditions.

New Compressor Frequency Control

By reducing frequency changes (from 17 to 4 times per hour), hunting is prevented. Reducing fluctuation improves efficiency and prolongs compressor life.

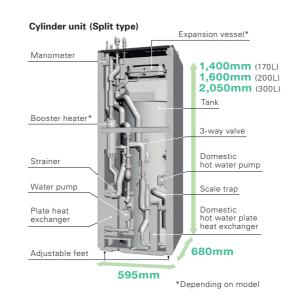


D generation Indoor Unit

All-in-one Compact Indoor Unit

- All-in-one: Key functional components are incorporated
- Compact cylinder unit: 1,400~2,050mm in height
- Compact hydrobox: Only 530×360mm footprint
- Easy installation: Factory fitted pressure relief valve
- Easy service: Relevant parts are located at the front of the unit for easy maintenance
- Easy transport: Handles attached on front and back (cylinder unit)





Line-up

ecodan's line-up has many types of indoor units to satisfy diverse customers' needs, requests and local regulations.

It includes various capacity units, with/without booster heater, with/without an expansion vessel, etc.

In addition, a reversible hydrobox and a reversible cylinder unit are available.



Reversible Models

(for heating/cooling)

Perfect Comfort in Winter and Summer Time, Thanks to Our Reversible Models.

Reversible models are now available for both hydrobox and cylinder units (Both for split type and cylinder unit for packaged type).

The new reversible cylinder is now able to produce cold water for cooling use and can alternatively produce domestic hot water in summer time.



Available options

- Packaged or Split type
- With/without booster heater
- With/without expansion vessel
- Cylinder unit has an integrated 170L/200L/300L stainless steel tank
- Hydro box is control ready for domestic hot water with a stand-alone tank (locally supplied)

Easy Installation and Low Maintenance

Simple Piping Arrangement

All water piping is aligned at the rear side of the unit for easy connection and neat finish.



Built-in Drain Pan for Reversible Cylinder Models

Reversible models now include a built-in space saving drain pan and the drain socket is positioned at the back of the unit. With use of the adjuster bolt, the outlet height can be higher than 50mm, allowing 5m drainage.



Hydrobox Piping Arrangement Improvement

Through structural innovation related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving pipe work and enabling it to be completed smoothly.



Minimum Additional Water Required

In average/warmer conditions, minimum additional water is required for outdoor unit. If there is enough water amount inside water pipe, radiator, or underfloor heating no buffer tank is required.

*Refer to the indoor unit installation manual for specific outdoor unit models.

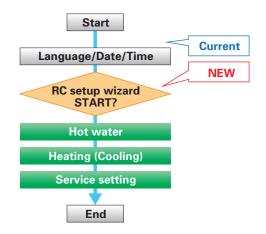
Easy Adjustment

Adjust bolt capable of 50mm expansion for easy installation on uneven surfaces.



Initial Setting Wizard

In addition to language, date and time, you can set up hot water and heating/cooling operation, pump speed, flow rate range initial setting much simpler than previous models.



Operation Data Monitoring

Time, operation mode, flow/return/tank temperature, can be displayed on main remote controller.

Sample display of monitoring setting

| | ., | meering or | | |
|-----------|----------|------------|---------|-------|
| | | 26 F | eb 2019 | 10:00 |
| 10:00 - 🄆 | | | THW5 | |
| 9:55 - 🔆 | | | | |
| 9:50 - | 48°C | 48°C | 54°C | 20L |
| 9:45 ᠼ | 60°C | 56°C | 54°C | 15L |
| 9:40 👗 | 59°C | 55°C | 52°C | 15L |
| i | 4 | | | (1/5) |

2 Zone Kit

 You can select from 3 types of pump operations, 1. Fixed speed mode, 2. Fixed pressure mode, 3. Energy saving mode, depending on your preference.



- All-in-one kit: Key functional components are incorporated in 2 zone kit.
- Easy installation: G1 screw type flexipiping to avoid brazing.
- Compact size: Just to fit on the top of cylinder unit, also wall mountable.

High Performance

Improved Efficiency

With additional thermistor (THW5A), $\eta wh [\%]$ rating is improved by more than 40% compared to previous C generation 200L models allowing 170L and 200L to achieve A+, the highest possible domestic hot water efficiency rank.

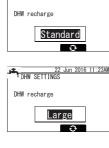
Excellent DHW efficiency



| | 170L | 200L | 300L | |
|--------------|---------|---------|---------|--|
| | ղwh [%] | ղwh [%] | ղwh [%] | |
| Conventional | - | 96~104 | - | |
| New | 120~148 | 135~159 | 118~128 | |
| Load Profile | L | L | XL | |
| DHW Rank | A+ | A+ | A/A+ | |

Thermistor Position of Cylinder

The thermistor position is now selectable allowing the unit to accommodate for different water demands in order to maximise the efficiency of the unit for any size of household or application. Using two thermistors equipped with all sizes of tanks, you can now select the DHW recharge amount from two options (Standard/Large). It helps accommodate for different water demands in order to maximise the efficiency of the unit for any size of household or application. This mode can be selected from main remote controller.



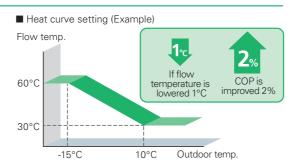
Unique Technology of ecodan

Auto Adaptation

Maximise Energy Savings While Retaining Comfort at All Times

Regarding the relation of flow temperature and unit performance, a 1°C drop in the flow temperature improves the coefficient of performance (COP) of the ATW system by 2%. This means that energy savings are dramatically affected by controlling the flow temperature in the system.

In a conventional system controller, the flow temperature is determined based on the pre-set heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



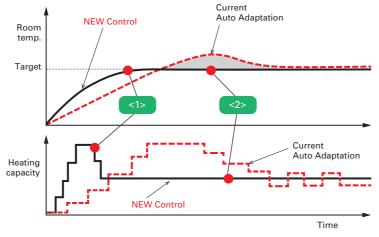
Auto Adaptation Improvement

Mitsubishi Electric's Auto Adaptation Function Automatically Tracks Changes in the Actual Room Temperature and Outdoor Temperature and Adjusts the Flow Temperatures Accordingly.

Aiming to realise further comfort and energy savings, Mitsubishi Electric has already introduced a revolutionary new controller. Auto Adaptation function measures the room temperature and outdoor temperature, and then calculates the required heating capacity for the room. Simply stated, the flow temperature is automatically controlled according to the required heating capacity, while optimal room temperature is maintained at all times, ensuring the appropriate heating capacity and preventing energy from being wasted.

Furthermore, by estimating future changes in room temperature, the system works to prevent unnecessary increases and decreases in the flow temperature. Accordingly, Auto Adaptation maximises both comfort and energy savings without the need for complicated settings.

For Mitsubishi Electric ecodan, by introducing improved control logic, we acheived faster heating and more energy saving.

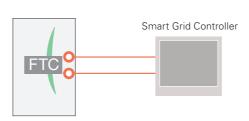


- <1> Fast heating with improved accuracy in learning building heat load
- <2> Energy saving by avoiding over heating and capacity fluctuation with better control response i.e. control interval and resolution

Smart Grid Ready Function

In recent years renewable energy generation has become popular. However, this rapid growing causes the problem of supply and demand gap of electricity. The aim of "SG Ready" is to make the electricity demand response more flexible by creating a uniform interface for the smart grid integration of heat pumps. Air-to-Water units need to be able to change the operation pattern when the signal is received from the Smart Grid Controller.

New ecodan Cylinder, Hydrobox and FTC have been modified to communicate with Smart Grid Controller. The communication protocol is based on "SG Ready" label regulation. (Version 1.1; gültig ab 01.01.2013)



| Pattern | Input 1 | Input 2 | Operation | |
|---------|---------|---------|--------------------------|----|
| 1 | OFF | OFF | Normal operation | |
| 2 | ON | OFF | Switch ON recommendation | |
| 3 | OFF | ON | Switch OFF command | SG |
| 4 | ON | ON | Switch ON command | |

Pattern 1: Normal operation

When there is no signal from the Smart Grid Controller, DHW and Heating operate according to user settings.

Pattern 2: Switch ON recommendation

When set to the "Switch ON" recommendation, the target temperature of DHW is increased a specified amount and the heating "Thermo ON" condition range is extended.

Pattern 3: Switch OFF command

When the "Switch OFF" command is received, both DHW and Heating are turned off.

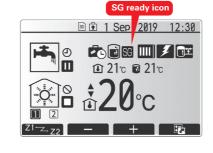
Pattern 4: Switch ON command

When the "Switch ON" command is received, the target temperature of DHW is increased to the maximum target temperature and Heating continues.

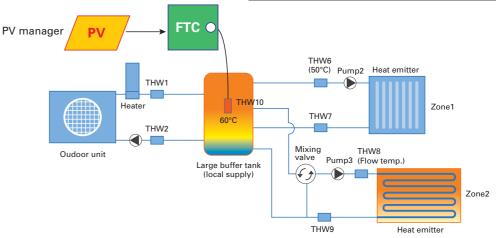
Improved Smart Grid Ready

SG ready icon on main remote controller indicates that SG ready is active and its setting can be easily operated with main remote controller. Improved SG ready function enables you to choose the target temperature in unit of 1°C. Also, when PV manager is interlocked with ecodan and ecodan receivers its signal, heat is stored as much as possible while heat pump and/or electric heater running.

Heat storage in large buffer tank will be made available for zone2 as well when peak cut signal is on. As long as a mixing valve keeps its control, zone2 flow temperature is maintained.



| Pattern | Operation | R/C indication |
|---------|--|----------------|
| 1 | Normal operation | |
| 2 | Switch ON recommendation | |
| 3 | Switch OFF command | SG |
| 4 | Switch ON command (while PV is generating) | |





Intelligent Hybrid Control (boiler interlock)

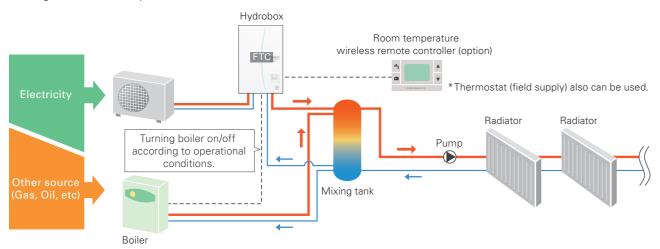
An Existing Boiler Can Be Used for Extra Heating Capacity in an Efficient Way

The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

In the event of one heating unit not working due to some unforeseen problem, the other heating system can be used as a back-up, thereby preventing the heating system operation from stopping completely.

Intelligent system combining a boiler with ecodan

■ Intelligent boiler interlock system



^{*} Items such as a mixing tank, and pump are not included and need to be purchased locally.

Heat source switchover - Choose appropriate system based on needs

4 types of heat source switchover logic

- ① Switchover based on actual outdoor temperature
 - Heat source switchover occurs when the outdoor temperature drops below a pre-set temperature.
- 2 Switchover based on running cost
- Heat source switchover occurs by judging optimal operation based on running cost.
- *Pre-registration of the energy price of electricity, and gas or oil per 1kWh is necessary.
- 3 Switchover based on CO2 emission level
- Heat source switchover occurs to minimise CO₂ emission.
 *Pre-registration of CO₂ emission amount from electricity and gas or oil is necessary.
- ④ Switchover can also be activated via external input
- For example, the peak cut signal from electric power company.

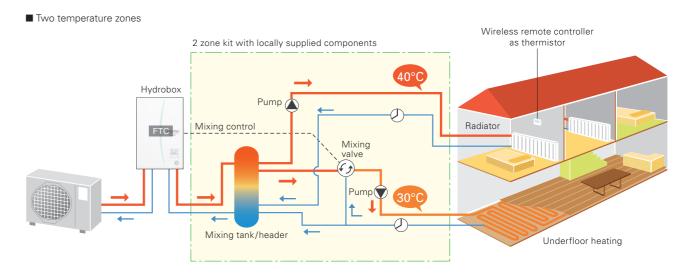
2 Zone Control (for heating/cooling)

Improved Simultaneous Control of Two Different Zones



Using ecodan, it is possible to control two different flow temperatures, thereby managing two different heating load requirements. The system can adjust and maintain two flow temperatures when different temperatures are required for different rooms; for example, controlling a flow temperature of 40°C for the bedroom radiators and another flow temperature of 30°C for the living room floor heating.

Moreover, mixing valve control is advanced for improving zone 2 comfort by using heat storage in buffer tank. Also, new controller monitors the temperature inside buffer tank and prioritizes using the heat inside the tank to avoid frequent on/off operation when using 2 zone control.



*Items such as a mixing tank, mixing valve and pumps are not included and need to be purchased locally.

Multiple Unit Control

Connect up to 6 Units – Automatic Control of Multiple Units for Bigger Capacity and Better Efficiency

A maximum of 6 units* can be configured according to the heating/cooling load of the building. The most efficient number of operating units is determined automatically based on heating/cooling load. This enables ecodan to provide optimal room temperature control, and thus superior comfort for room occupants. Also incorporated is a rotation function that enables each unit to run for an equal time period.

If one of the units malfunctions when using the Multiple Unit Control, another unit can be automatically operated for back-up, thereby preventing the system operation from stopping completely.

 * Only same models (same capacity) can be used.

Multiple unit control

COP ratio (%)

1 unit

2 units

3 units

4 units

5 units

6 units

100

Always high efficient operation!

Total Capacity

Total Capacity

Up to 138 kw!!

Multiple unit control

^{*}Please see below "Heat source switchover".

Remote Controllers

Smart User-friendly Controller with Stylish Design

Main remote controller

- Large screen and backlight for excellent visibility, even in dark environment
- Multi-language support (supports 15 languages)
- Can be removed from main unit and installed in a remote location (up to 500m)
- Quick reading of operation data (7.5 times faster than previous model)
- Wide range of convenient functions in response to user demand Function settings
 - Energy monitoring
 - Two-zone control (cooling and heating) Weekly timer
 - Two separate schedules

 - Summer time setting
 - Built-in room temperature sensors
 - Hybrid control (boiler interlock)
- Floor drying mode
- Holiday mode
- Legionella prevention

Wireless remote controller (optional)

- Built-in room temperature sensor; easy to place in the best position to detect room temperature
- · Wiring work eliminated
- Simple design that is easy to operate
- Remote control from any room without needing to choose an installation location
- Backlight and big buttons that are easy to operate
- Domestic hot water boost and cancellation
- Simplified holiday mode

13 Jun 2919 13:41 **№** \$21°c **3** ∨ PAR-WR51R-E (Option)



Main controlle



PAR-WT50R-E (Option)

Energy Monitoring

View Electricity Consumption and Heat Output on the Remote Controller

Every end user can now easily check the energy data of the ecodan heat pump.

Other features

- Daily, monthly and yearly data are stored and can be displayed using the main remote controller
- External power meter and heat meter can be connected for accurate measurement.
- SD card is also available for storing data.
- *Using pre-set values on the main remote controller, estimated energy consumption/output can be shown without external power and a heat meter.

Depending on operating condition and system configuration, there is some possibility to show different data from the reality

*This function is available depending on the version of the outdoor unit model

Summer Time Setting

Easy Adjustment for **Summer Time**

Just switch the summer time mode 'on' using the main remote controller and the clock in the main remote controller is adjusted to summer time hours

This function can release the end user from clock setting tasks.





Two Separate Schedules

Pre-setting Two Different Schedules for Winter and Summer Seasons



Two different schedule settings are available for use via the main remote controlle

These schedules can be pre-set and changed depending on the season. For example, from November to March, space heating and domestic hot water are used; however, during warm months such as from April to October, only domestic hot water is used.



Easy Commissioning

Pump for Primary Water Circuit* Speed Setting Possible Using ecodan's Main Remote Controller

Even when the system is running, pump output can be set to one of five different settings using the main remote controller.

The person commissioning the system can adjust this speed much more easily.

*Speed setting of pump for domestic hot water is not available through the main remote controller



Flow sensor newly incorporated

The flow sensor is key for monitoring energy output and can also be used to detect flow error as well.

- Flow rate can be checked on the main remote controller.
- Flow rate can also be shown as graphs using the SD card tool.



Run indoor unit* without outdoor unit

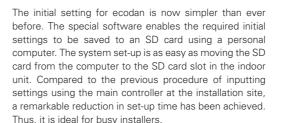
During installation or situations such as an outdoor unit malfunction, the indoor unit can be operated using a heater. While using this mode, flow and tank temperature are selectable.

Fixing and maintenance of the outdoor unit can be done without stopping heating and domestic hot water operation*.

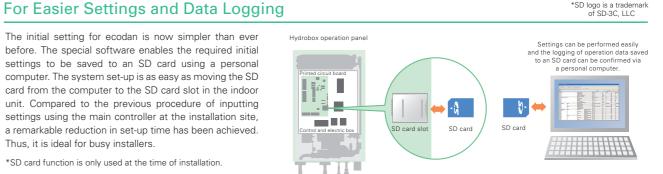
* Models with electric heater only.

SD* Card

*When the indoor unit operation stops, please check all settings after the outdoor unit is connected.



*SD card function is only used at the time of installation.



Items that can be pre-set

Simply copying pre-set data to an SD card,

the same settings can input into another unit using the SD card.

- Initial settings (time display, contact number, etc.)
- Heating settings
- Auto adaptation - Heat curve
- Two different temperature zones (heating and cooling)
- Interlocked boiler operation settings
- Holiday mode settings
- Schedule timer settings (two separate schedules)
- Domestic hot water settings
- Legionella prevention settings

All items that are set by the main controller can be set via a personal computer

Data that can be stored

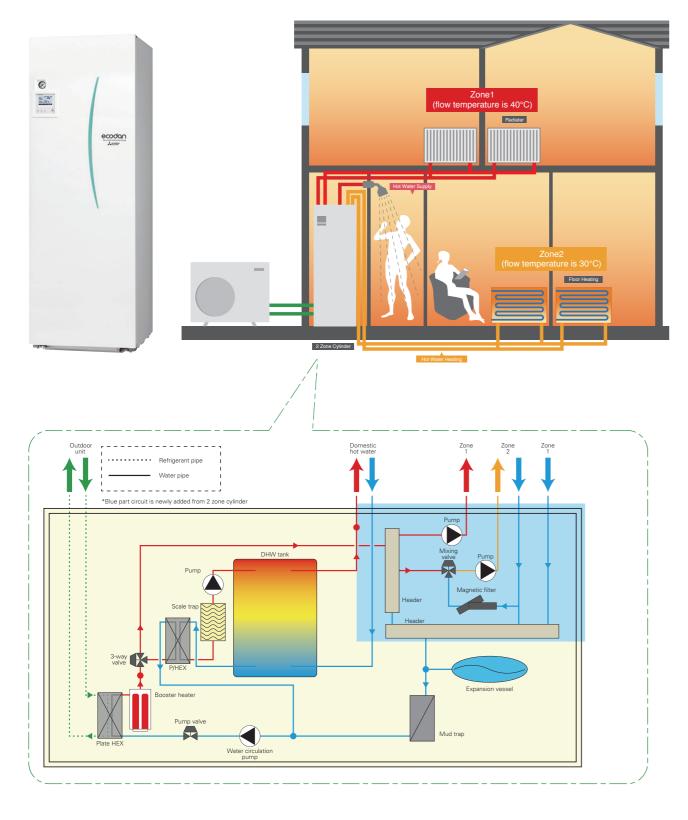
Operation data up to a month long can be stored on

- a single SD card · Consumed electrical energy
- Delivered energy
- Flow rate Operation time
- Defrost time
- Actual temperature
- Room temperature
- Flow temperature
- Return temperature
- Domestic hot water temperature
- Outdoor temperature
- Error record Input signal
- Etc.

2 Zone Cylinder

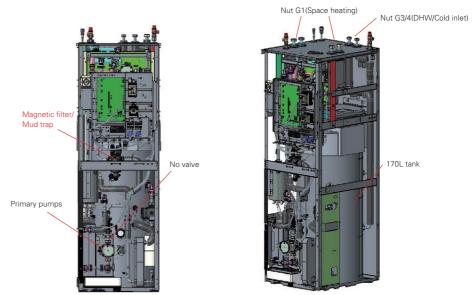
Excellent Performance with Mitsubishi Electric First 2 zone cylinder

2 zone cylinder control 1/2 zones water temperature. Also, magnetic filter and mud trap are newly added instead of strainer. Thanks to built-in magnetic filter and mud trap, installer work/time can be reduced.



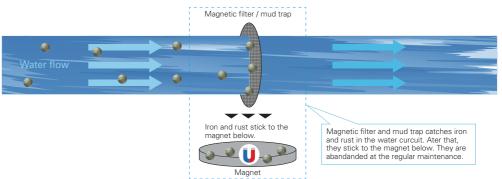
Components

The figure below is component of 2 zone cylinder. Magnetic filter/mud trap are newly added.



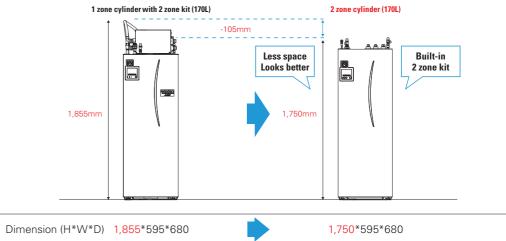
Clean circuit water

Magnetic filter and mud trap are newly added instead of strainer. Thanks to them, keep the water in the circuit clean and prevent deterioration of mixing valve.



Easy installation & transportation

At only 1750mm, 2 zone cylinder is the class-leading compact unit on the market, making the ideal solution for rooms and basements with a low ceiling height.

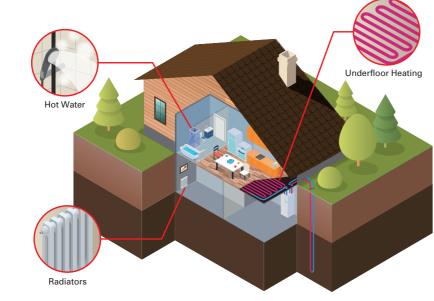


ecodan geodan

Excellent Performance with Mitsubishi Electric First Residential Ground Source Heat Pump

Ground source heat pump works best especially in replacement from old ground source heat pump.





Performance / Function

geodan

High Performance

ErP Lot 1 Compliant with highest seasonal space heating energy efficiency class A+++.

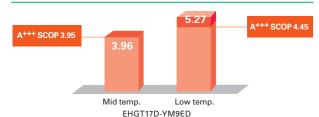


21

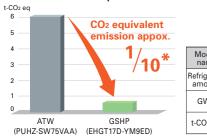


Low GWP refrigerant R32 contributes the reduction of CO₂ emission compared with conventional R410A refrigerant.

A⁺⁺⁺ Class Energy Efficiency



<ATW vs GSHP> CO2 equivalent emission



*Source: IPCC 4th Assessment Report, global Comparison of 2088(R410A) and 675 (R32).

0.9ka

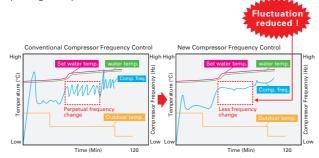
675 (R32)

3.0kg

2088 (R410A)

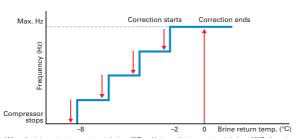
New Compressor Frequency Control

By reducing frequency changes (from 17 to 4 times per hour), hunting is prevented. Reducing fluctuation improves efficiency and prolongs compressor life.



Borehole Protection Control

When the unit detects low underground temperature, it automatically reduces the capacity by decreasing heat source collection in order to protect the borehole.



When the brine return temperature is below -8°C and brine outlet temperature is below -12°C, the unit operates only by booster heater. The correction tempeature can be changed by dip SW.

Comfort with Silence

Mitsubishi Electric heat pumps are designed to give you highly efficient and eco-friendly heating with the lowest possible noise level. ecodan geodan achieved industry-leading low noise, 42dB(A)*.



Silencing Noise

The triple covering structure of the compressor unit greatly reduces sound level through noise absortion.

1st Cover

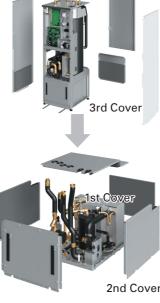
Compressor sound insulation box (with noise absorbing felt and damper)

2nd Cover

Module Box (with noise absorbing felt)

3rd Cover

Outside panel (with noise absorbing felt)



Avoiding Vibration Noise

Rubber mounted stabilizer plate cushions the vibration noise of the



Easy Installation & Transportation

At only 1750mm, ecodan geodan is the class-leading compact unit on the market, making it the ideal solution for rooms and basements with a low ceiling height.



Easy Transportation

Compressor module can be removed for easier installation and transportation. Once removed, the tank can be transported horizontally.



Flexible Piping Work

Pipings on top are placed in a Zig-Zag shape. This enables easier installation without interrupting each piping work, especially in case of replacement.



Easy Adjustment

Adjust bolt capable of 50mm expansion for easy installation even on uneven surfaces.



Mr.SLIM+

A Smart Air Conditioning and Hot Water Supply System Conceived from **Eco-conscious Ideas**

Mr. SLIM+ has a heat recovery function, which uses waste heat from air conditioners to heat water. Thanks to heat recovery, the Mr. SLIM+ model can achieve a COP of 7.0*, resulting in intelligent systems with amazing efficiency.

*Conditions for air-to-air cooling: Indoor 27°C (dry bulb), 19°C (wet bulb); Outdoor 35°C (dry bulb)

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)

Mr. SLIM for Air-to-Air

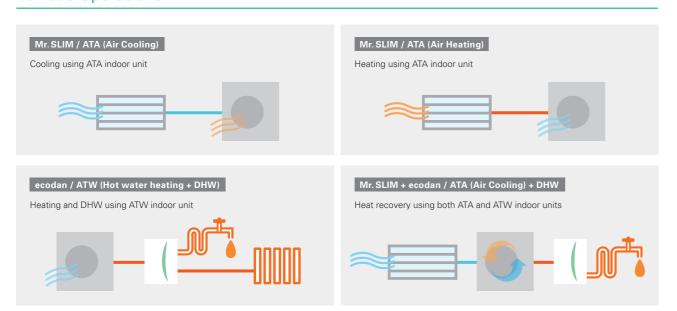
Mr. SLIM+ utilises a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that it is possible to fit to various applications.

ecodan for Air-to-Water

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



Various Operations



Specifications

| Indoor | | | | | PLA-ZM71EA2 | PKA-M71KA(L)2 | PCA-M71KA2 | PSA-M71KA | PEAD-M71JA2 | PEAD-M71JAL |
|-------------------|----------------------|--------------------|---------------------------------|---------|--------------------|--------------------|-----------------------|-----------------------|--------------------|--------------------|
| Outdoo | r unit | | | | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VH |
| Refriger | rant | | | | | | R410 |)A*1 | | |
| ower s | | Outdoor (V / P | hase / Hz) | | | 1 | 230 / Sir | _ | | |
| ir-to-Air ATA) | Cooling | Capacity | Rated | kW | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| AIA) | | | Min-Max | kW | 3.3-8.1 | 3.3-8.1 | 3.3-8.1 | 3.3-8.1 | 3.3-8.1 | 3.3-8.1 |
| | | Total input | Rated | kW | 1.88 | 1.93 | 1.93 | 2.15 | 2.15 | 2.09 |
| | | EER | | | 3.77 | 3.67 | 3.67 | 3.30 | 3.3 | 3.4 |
| | | Design load | | kW | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | | Annual electri | city consumption *2 | kWh/a | 376 | 386 | 384 | 409 | 446 | 423 |
| | | SEER *4 | | | 6.6 | 6.4 | 6.4 | 6.0 | 5.5 | 5.8 |
| | | | Energy-efficiency class | | A++ | A ⁺⁺ | A ⁺⁺ | A ⁺ | А | A ⁺ |
| | Heating | Capacity | Rated | kW | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | (average season) | | Min-Max | kW | 3.5-10.2 | 3.5-10.2 | 3.5-10.2 | 3.5-10.2 | 3.5-10.2 | 3.5-10.2 |
| | coucon, | Total input | Rated | kW | 2.11 | 2.29 | 2.29 | 2.42 | 2.14 | 2.14 |
| | | COP | | | 3.80 | 3.50 | 3.50 | 3.30 | 3.74 | 3.74 |
| | | Design load | | kW | 4.7 | 4.7 | 4.7 | 4.7 | 4.9 | 4.9 |
| | | Declared | at reference design temperature | kW | 4.7 (-10°C) | 4.7 (-10°C) | 4.7 (-10°C) | 4.7 (-10°C) | 4.9 (-10°C) | 4.9 (-10°C) |
| | | capacity | at bivalent temperature | kW | 4.7 (-10°C) | 4.7 (-10°C) | 4.7 (-10°C) | 4.7 (-10°C) | 4.9 (-10°C) | 4.9 (-10°C) |
| | | | at operation limit temperature | kW | 3.5 (-20°C) | 3.5 (-20°C) | 3.5 (-20°C) | 3.5 (-20°C) | 3.7 (-20°C) | 3.7 (-20°C) |
| | | Back-up hear | | kW | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | kWh/a | | 1,564 | 1,556 | 1,699 | 1,741 | 1,741 |
| | | SCOP *4 | , | | 4.3 | 4.2 | 4.2 | 3.8 | 3.9 | 3.9 |
| | | 0001 | Energy-efficiency class | | A ⁺ | A ⁺ | A ⁺ | A | A | A |
| r-to-Water | Nomina | I flow rate (for I | | L/min | | | 22. | | | |
| TW) | Heating*5 | | Capacity | kW | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| | ricating - | A/ 1105 | . , | kW | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| | | | Input | KVV | | | | 4.05 | | |
| | | A2W35 | COP | kW | 4.05 | 4.05 | 4.05 | | 4.05 | 4.05 |
| | | AZVV35 | Capacity | | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| | | | Input | kW | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 |
| | | | COP | | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| | Heat recovery | j & *6 | Capacity (ATA cooling + ATW) | | 7.1+8.0 | 7.1+8.0 | 7.1+8.0 | 7.1+8.0 | 7.1+8.0 | 7.1+8.0 |
| | (ATA | | Input | kW | 1.90 | 1.93 | 1.95 | 2.02 | 2.20 | 2.18 |
| | cooling & ATW) *6 | | COP | | 7.95 | 7.82 | 7.74 | 7.48 | 6.86 | 6.92 |
| | | W55 | Capacity (ATA cooling + ATW) | | 7.1+9.0 | 7.1+9.0 | 7.1+9.0 | 7.1+9.0 | 7.1+9.0 | 7.1+9.0 |
| | | | Input | kW | 2.97 | 3.00 | 3.02 | 3.09 | 3.27 | 3.25 |
| | | | COP | | 5.42 | 5.37 | 5.33 | 5.21 | 4.92 | 4.95 |
| | ATW inc | loor unit | | | | Су | linder unit or Hydrob | oox (see previous pag | ge) | |
| utdoo | r unit | Dimensions | HxWxD | mm | | | 943-950- | 330 (+30) | | |
| | | Weight | | kg | 73 | 73 | 73 | 73 | 73 | 73 |
| | | Air volume | Cooling | m³/min | 50 | 50 | 50 | 50 | 50 | 50 |
| | | | Heating | m³/min | 50 | 50 | 50 | 50 | 50 | 50 |
| | | Sound pressure | Cooling | dB(A) | 47 | 47 | 47 | 47 | 47 | 47 |
| | | level (SPL) | Heat recovery | dB(A) | 47 | 47 | 47 | 47 | 47 | 47 |
| | | | ATA Heating | dB(A) | 49 | 49 | 49 | 49 | 49 | 49 |
| | | | ATW Heating | dB(A) | 49 | 49 | 49 | 49 | 49 | 49 |
| | | Sound power | Cooling | dB(A) | 67 | 67 | 67 | 67 | 67 | 67 |
| | | level (PWL) | Heat recovery | dB(A) | 67 | 67 | 67 | 67 | 67 | 67 |
| | | | ATA Heating | dB(A) | | 68 | 68 | 68 | 68 | 68 |
| | | | ATW Heating | dB(A) | | 68 | 68 | 68 | 68 | 68 |
| | | Operating cur | - | A | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| | | Breaker size | | А | 25 | 25 | 25 | 25 | 25 | 25 |
| kt.pipi | na | Diameter | Liquid/Gas | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| pipi | ⊌ | Max. length | Out-In | | 3.32/10.00 | 3.32/10.00 | 30 (for ATA) + | | 5.52/15.00 | 3.32/13.00 |
| | | | | m | 20 | 20 | 20 | 20 | 20 | 20 |
| | ta a d | Max. height | Out-In | m °C | 20 | 20 | | | 20 | |
| | teed oper | ating range | Cooling*3 | °C | -15~+46 | -15~+46 | -15~+46 | -15~+46 | -15~+46 | -15~+46 |
| | | | Harden o | ~~ | | | | | | |
| Guaran | | | Heating ATW | °C | -20~+21 -20~+35 | -20~+21 -20~+35 | -20~+21 -20~+35 | -20~+21 -20~+35 | -20~+21 -20~+35 | -20~+21 -20~+35 |

^{*1} Refrigerant leakage contributes 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 atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 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} Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

^{*4} SEER/SCOP values are measured based on EN14825.

^{*5} Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.). *6 Conditions for Air-to-Air cooling: Indoor 27°C (dry bulb) /19°C (wet bulb); Outdoor 35°C (dry bulb)

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

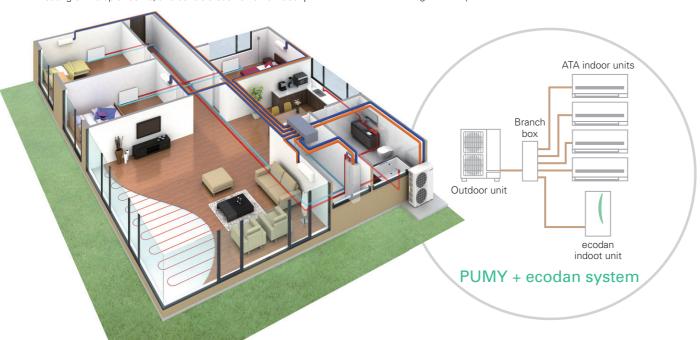
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

PUMY for Air-to-Air

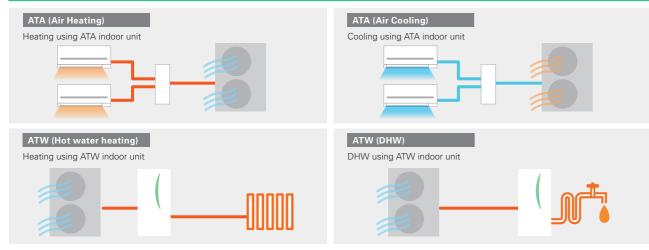
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

ecodan for Air-to-Water

✓Domestic hot water (DHW) supply ✓Heating for multiple rooms



Main Operation Patterns



Optional Operation Patterns* (simultaneous)



*When using optional simultaneous operation, there are some restrictions, such as connectable indoor units, operation range and DHW flow temp.

Usage Pattern All-in-one System Solution

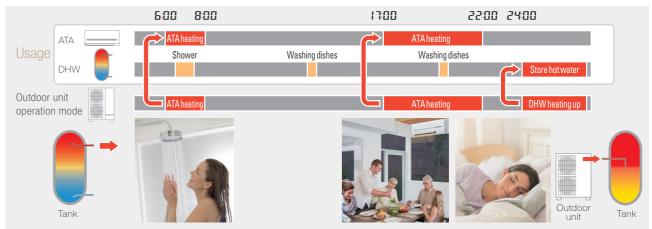
Summer 2-in-1 Operation

In summer ATA cooling and DHW are utilised. Keep your room comfortable with ATA cooling during high temperature daytime. Heat pump operates to heat up water stored in the DHW tank when ATA is not operated. The hot water can be utilised for shower and washing dishes during daytime.



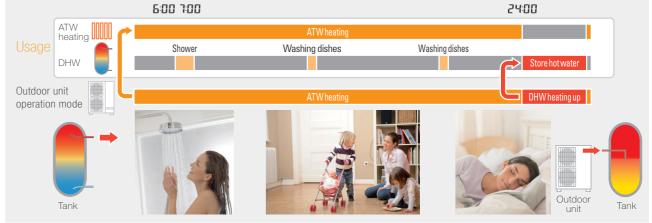
Spring & Autumn 2-in-1 Operation

In spring and autumn, ATA heating and DHW are utilised. ATA heating can warm up each room quickly during the low temperature morning and evening. Heat pump operates to heat up water stored in the DHW tank when ATA is not operated. The hot water can be utilised for shower and washing dishes during daytime.



Winter ecodan

In winter ATW heating and DHW are utilised. ATW heating warms home all the day in severe cold weather. ATW heating stops temporarily only when the heat pump operates to heat up water stored in the DHW tank.



PUMY+ecodan

| Model name | | | | | | PUMY- P112VKM5(-BS) | PUMY- P125VKM5(-BS) | PUMY- P140VKM5(-BS) | PUMY- P112YKM(E)4(-BS) | PUMY- P125YKM(E)4(-BS) | PUMY- P140YKM(E)4(-BS) |
|--------------|--------------|--------------------|---|-----------------------------------|------------|---|--|--|--------------------------------------|---------------------------|---------------------------|
| Power suppl | У | | | | | | se 220 - 230 - 240\ | | | se 380 - 400 - 415\ | |
| Air-to-Air | Cooling | Capacity | | | kW | 12.5 | 14.0 | 15.5 | 12.5 | 14.0 | 15.5 |
| (ATA) | (nominal)*1 | Power input | | | kW | 2.79 | 3.46 | 4.52 | 2.79 | 3.46 | 4.52 |
| | | EER | | | | 4.48 | 4.05 | 3.43 | 4.48 | 4.05 | 3.43 |
| | Temp. range | Indoor temp. | | | W.B. | | | 15 - | 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 | 3.04 | 3.74 | 4.47 | 3.04 | 3.74 | 4.47 |
| | | COP | | | | 4.61 | 4.28 | 4.03 | 4.61 | 4.28 | 4.03 |
| | Temp. range | Indoor temp. | | | W.B. | | | | 27°C | | |
| | of heating | Outdoor temp. | | | D.B. | | | | 15°C | | |
| Air-to-Water | | rate (for heatin | Ť | | L/min | | | | 5.8 | | |
| (ATW) | Heating*3 | A7W35 | Capacity | | kW | | | | 2.5 | | |
| | | | Power input | | kW | | | | 06 | | |
| | | | COP | | | | | | 08 | | |
| | | A2W35 | Capacity | | kW kW | | | | 0.0 | | |
| | | | Power input | | | | | | 50 | | |
| | L | | СОР | | D.B. | | | | 86 | | |
| | Guaranteed | ATW | Heating | | | | | | +21°C | | |
| | range | ATA + ATW | DHW | | D.B. | | | | +35°C | | |
| | | | ATA heating + DHW ATA heating + ATW heating *4 | | D.B. | 7 - +21°C | | | | | |
| | | | | IW heating *4 | D.B. | −10 - +21°C | | | | | |
| Outdoor | Indoor unit | utlet water temp | | | °C | 55 | | | | | |
| unit | connectable | ATA Total capacity | | <u>'</u> | | 50 to 130% of outdoor unit capacity 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 | | | | 15 100/0 | |
| uc | Cominication | Quantity | | Branch box system Mixed system*12 | | 15-100/8 | 15-100/8 15-140* ⁵ /10* ⁶ | 15-100/8 15-140* ⁵ /10* ⁶ | 15-100/8 15-140* ⁵ /10 | 15-100/8 | 15-100/8 |
| | | ATA + ATW | Total capacity | iviixeu system | | , . | | | | | |
| | | individual M | | Branch box system | | ATA : Max 130% of outdoor unit capacity + ATW (EHST20C or 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 | | 15-100/8 | 15-100/8 | | |
| | | | (including ATW) | 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 | IVIIAGU SYSTEIII | | | Max 100% of outdo | | | | |
| | | 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 | model, additing | ATW | | 10/1 | 10 20/2 | | C or EHSC) / 1 | 10 20/2 | 10 42 /0 |
| | Sound pressi | ire level (measi | ıred in anechoic ro | | dB <a> | 49 / 51 | 50 / 52 | 51 / 53 | 49 / 51 | 50 / 52 | 51 / 53 |
| | | | d in anechoic rooi | | dB <a> | 69 / 71 | 70 / 72 | 71 / 73 | 69 / 71 | 70 / 72 | 71 / 73 |
| | | iping diameter | | Liquid pipe | mm | 30 / 1.1 | 127.12 | | flare | 147.12 | 11710 |
| | | , 5 | | Gas pipe | mm | | | | flare | | |
| | Fan | Type × Quantit | .V | | | | | Propelle | r fan × 2 | | |
| | | Airflow rate | • | | m³/min | | | 1 | 10 | | |
| | | | | | L/s | | | 1,8 | 183 | | |
| | | | | | cfm | 3,884 | | | | | |
| | | Motor output | tor output | | kW | | | 0.074 | + 0.074 | | |
| | Compressor | Type × Quantit | У | | | | | Scroll hermetic | compressor x 1 | | |
| | | Starting metho | od | | | | | Inve | erter | | |
| | | Motor output | | | kW | 2.9 | 3.5 | 3.9 | 2.9 | 3.5 | 3.9 |
| | | ensions (H × W : | × D) | | mm | | | 1,338 × 1,05 | 0 × 330 (+40) | | |
| | Weight | | | | kg | | 122 | | YI | (M: 125 / YKME: 1 | 36 |

*1

| Indoor | | Outdoor | Piping length | Level difference | |
|---------|-------------------|-----------------|---------------|------------------|--|
| Cooling | 27°C DB / 19°C WB | 35°C DB | 7.5m | 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-P20/25/32VLM, 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.

 *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.

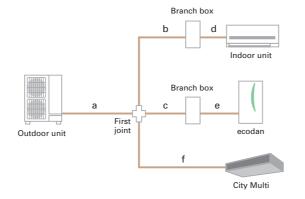
 *11 In the case of City Multi connection, maxmum is P32.

 *12 PKFY and PFFY series are not connectable.

Piping specifications

| Total piping length | m | 150* | a+b+c+d+e+f |
|---|----|---------|----------------|
| Farthest piping length | m | 80 | a+b+d or a+c+e |
| | "" | 85 | a+f |
| Total piping length betwen outdoor unit and branch box | m | 55 | a+b+c |
| Total piping length between branch boxes and indoor units | m | 95 | d+e |
| Farthest piping length from the first joint | m | 30 | borcorf |
| Farthest piping length after branch box | m | 25 | d or e |
| Height difference (Outdoor upside / Outdoor downside) | m | 50 / 40 | |

^{*}When an ecodan is connected, the maximum piping length is 150m.



PUMY+ecodan Compatibility Table

ATW branch box connection compatibility table

| Series | Туре | Model name | Compatibility | Type | Model name | Compatibility | Type | Model name | Compatibility |
|--------|----------|----------------|---------------|----------|-------------|---------------|--------|-------------|---------------|
| ATW | Cylinder | EHST20C-VM2/6D | • | Hydrobox | EHSC-VM2/6D | • | Branch | PAC-MK53BC | • |
| | unit | EHST20C-YM9D | • | | EHSC-YM9D | • | box | PAC-MK33BC | • |
| | | EHST20C-TM9D | • | | EHSC-TM9D | • | | PAC-MK53BCB | • |
| | | EHST20C-YM9ED | • | | EHSC-YM9ED | • | | PAC-MK33BCB | • |

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

| For simultaneous operation of ATA+ATW Max 100% of | outdoor unit capaci | ty: ATA + A | TW (EHST20C or EHSC) |
|---|------------------------------------|--------------|---|
| Outdoor capacity 12.5kW | | | |
| ATW indoor unit (Cylinder or Hydrobox) 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 Hydrobox) 11.2kW | ATA capacity 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 Hydrobox) 11.2kW | ATA capacity Ma | ax. 4.3kW | *Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be connected. |

Split Type Specifications

| Indoor | unit | | | | | | | | | | | | | | |
|---|-----------------------------------|--------------------------------|-------|---|--------------------|--------------------|-------------------|----------------------|--------------------|---------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| <cylinder td="" u<=""><td>unit (Heati</td><td>ng only)></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Small</td><td>apacity</td><td></td><td></td><td></td><td></td><td></td></cylinder> | unit (Heati | ng only)> | | | | | | | Small | apacity | | | | | |
| Model name | е | | | EHST17D- VM2D | EHST17D- YM9D | EHST20D- MED | EHST20D- VM2D | EHST20D- VM6D | EHST20D- YM9D | EHST20D- YM9ED | EHST20D- TM9D | EHST30D- MED | EHST30D- VM6ED | EHST30D- YM9ED | EHST30D- TM9ED |
| | | Туре | | | | | | | | Heating on l | у | | | | |
| | | Expansion vessel | | V | V | - | V | V | V | - | V | - | - | - | - |
| | | Booster heater (2/6/9 kW) | | V | V | - | レ | V | V | V | V | - | V | レ | V |
| Dimensions | 3 | HxWxD | mm | 1400×595 ×680 | | | 16 | 00x595x680 | | | | | 2050x5 | 95×680 | |
| Weight (em | pty) | | kg | 93 | 96 | 93 | 99 | 100 | 102 | 96 | 102 | 113 | 115 | 117 | 117 |
| Control Boa | rd Power su | ipply (Phase / V / Hz) | | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | ~ /N,230V 50Hz | , ∼ /N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ∼ /N,230V, 50Hz | ~/N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ∼/N,230V, 50Hz |
| Heater | Booster | Power supply (Phase / V / Hz) | | ~ /N,230V, 50Hz | 3 ~ ,400V, 50Hz | - | ~ /N,230V 50Hz | , ∼ /N,230V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,230V, 50Hz | - | ~/N,230V, 50Hz | 3 ~ ,400V, 50Hz | 3 ∼ ,230V, 50Hz |
| | heater Capacity | | | 2 | 3+6 | - | 2 | 2+4 | 3+6 | 3+6 | 3+6 | - | 2+4 | 3+6 | 3+6 |
| | Current | | | 9 | 13 | _ | 9 | 26 | 13 | 13 | 23 | _ | 26 | 13 | 23 |
| | | Breaker size | Α | 16 | 16 | - | 16 | 32 | 16 | 16 | 32 | _ | 32 | 16 | 32 |
| Domestic hot water tank | Volume / I | Vlateria l | L/- | 170 / Stainless steel (Net) 300 / Stainless steel (Net) 300 / Stainless steel (Net) | | | | | | | | | | t) | |
| Guranteed | Ambient | | °C | | | | | | 0 - 35 (| ≦80%RH) | | | | | |
| operating | Outdoor | Heating | °C | | | | | S | ee outdoor | unit spec ta | ble | | | | |
| range *1 | | Cooling | °C | | | | | | | _ | | | | | |
| Target | Heating | Room temperature | °C | | | | | | 10 | - 30 | | | | | |
| temperature | mperature Flow temperature | | °C | | | | | | 20 | - 60 | | | | | |
| range | Coolimg Room temperature °C | | °C | | | | | | | _ | | | | | |
| | Flow temperature °C | | | | | | | | | _ | | | | | |
| DHW tank | | Max. hot water temperature | °C | 70 | 70 | *2 | | | 70 | | | *2 | | 70 | |
| performanc | e | Water heater energy efficiency | class | | | | A | 4+ | | | | | Α- | A+ | |
| | Water heater energy efficiency of | | | | | | | | | | | • | | | |

*1 The indoor environment must be frost-free
*2 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower than maximum outlet water of outdoor unit.
For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

| Cylinder u | ınit (Heati | ng only)> | | | | | | Medium | capacity | | | | |
|-------------------------------|---|-------------------------------|------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Model nam | е | | | EHST20C- MED | EHST20C- VM2D | EHST20C- VM6D | EHST20C- YM9D | EHST20C- YM9ED | EHST20C- TM9D | EHST30C- MED | EHST30C- VM6ED | EHST30C- YM9ED | EHST30C TM9ED |
| | | Туре | | | | | | Heatir | ng on l y | | | | |
| | | Expansion vessel | | _ | レ | レ | V | _ | レ | - | _ | _ | _ |
| | | Booster heater (2/6/9 kW) | | _ | レ | レ | V | V | レ | - | V | レ | V |
| Dimensions | 5 | HxWxD | mm | | | | 1600x5 | 95x680 | | | 2050x5 | 95x680 | |
| Weight (em | pty) | | kg | 103 | 110 | 110 | 112 | 107 | 112 | 120 | 122 | 124 | 124 |
| Control Boa | rd Power su | upply (Phase / V / Hz) | | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz |
| Heater | Booster | Power supply (Phase / V / Hz) | | _ | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,400V, 50Hz | - | ~ /N,230V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,230V, 50Hz |
| | heater | Capacity | kW | _ | 2 | 2+4 | 3+6 | 3+6 | 3+6 | - | 2+4 | 3+6 | 3+6 |
| | Current | | Α | _ | 9 | 26 | 13 | 13 | 23 | - | 26 | 13 | 23 |
| | Breaker size | | А | - | 16 | 32 | 16 | 16 | 32 | - | 32 | 16 | 32 |
| Domestic hot water tank | Volume / f | Materia l | L/- | | | 200 / Stainle | ss steel (Net) | | | | 300 / Stainle | ss steel (Net) |) |
| Guranteed | Ambient | | °C | | | | | 0 - 35 (≦ | 80%RH) | | | | |
| operating range *1 | Outdoor | Heating | °C | | | | 8 | See outdoor ι | ınit spec tabl | е | | | |
| range " i | | Cooling | °C | | | | | - | - | | | | |
| Target | Heating | Room temperature | °C | | | | | 10 - | - 30 | | | | |
| temperature | | Flow temperature | °C | | | | | 20 - | - 60 | | | | |
| range | nge ' | | °C | | | | | - | - | | | | |
| | Flow temperature °C | | °C | | | | | - | - | | | | |
| DHW tank | | | °C | 70 *2 70 | | | | | | | | | |
| pertormano | erformance Water heater energy efficiency class | | A+ A | | | | | | | | | | |
| Sound pow | ound power level (PWL) dB (A) | | | 3 (A) 40 | | | | | | | | | |

| Hydrobox | (Heating | only)> | | | | Sma ll d | capacity | | | | | Medium | capacity | | | Large | capacity |
|-----------------------------|-----------------------------|-------------------------------|--------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| Model name | е | | | EHSD- MED | EHSD- VM2D | EHSD- VM6D | EHSD- YM9D | EHSD- YM9ED | EHSD- TM9D | EHSC- MED | EHSC- VM2D | EHSC- VM6D | EHSC- YM9D | EHSC- YM9ED | EHSC- TM9D | EHSE- MED | EHSE YM9EI |
| | | Туре | | | | | | | | Heating | g on l y | | | | | | |
| | | Expansion vessel | | _ | レ | L | L | _ | レ | _ | V | V | V | - | レ | _ | - |
| | | Booster heater (2/6/9 kW) | | _ | レ | V | V | V | レ | _ | V | レ | V | V | レ | _ | V |
| Dimensions | | HxWxD | mm | | | | | | 800x5 | 30x360 | | | | | | 950x6 | 00x360 |
| Weight (em | pty) | | kg | 36 | 43 | 44 | 44 | 40 | 44 | 40 | 47 | 48 | 48 | 43 | 48 | 61 | 63 |
| Control Boa | rd Power su | ıpply (Phase / V / Hz) | | ~/N,230V, 50Hz | ~/N,230V, 50Hz | ~/N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | ~/N,230V, 50Hz | ~/N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ~/N,230V, 50Hz | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | ~ /N,230 50Hz |
| Heater | Booster | Power supply (V / Phase / Hz) | | _ | ~/N,230V, 50Hz | ~/N,230V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,230V, 50Hz | - | ~ /N,230V, 50Hz | ~/N,230V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,400V, 50Hz | 3 ~ ,230V, 50Hz | _ | 3 ~ ,400\ 50Hz |
| | heater | Capacity | kW | _ | 2 | 2+4 | 3+6 | 3+6 | 3+6 | - | 2 | 2+4 | 3+6 | 3+6 | 3+6 | _ | 3+6 |
| | Current | | | | 9 | 26 | 13 | 13 | 23 | - | 9 | 26 | 13 | 13 | 23 | - | 13 |
| | | Breaker size | А | - | 16 | 32 | 16 | 16 | 32 | - | 16 | 32 | 16 | 16 | 32 | - | 16 |
| Guranteed | Ambient | | L/- | | | | | | | 0 - 35 (≦ | 80%RH) | | | | | | |
| operating range *1 | Outdoor | Heating | °C | | | | | | See | outdoor ι | ınit spec t | ab l e | | | | | |
| range i | | Cooling | °C | | | | | | | - | = | | | | | | |
| Target | | | | | | | | | | 10 - | - 30 | | | | | | |
| temperature | emperature Flow temperature | | | | | | | | | 20 - | - 60 | | | | | | |
| Cooling Room temperature °C | | | | | | | | | | - | - | | | | | | |
| | Flow temperature °C | | | | | | | | | - | - | | | | | | |
| Sound power | er level (PW | 'L) | dB (A) | | | 4 | 1 | | | | | 4 | 0 | | | | 45 |

*1 The indoor environment must be frost-free.

Split Type Specifications

| ndoor | unit | | | | NEW | | NEW | NEW | | | | | | |
|-------------------------------|--------------|--------------------------------|--------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Cylinder u | unit (Reve | rsible)> | | | | | | 5 | Small capacity | / | | | | |
| Model nam | е | | | ERST17D-VM2D | ERST17D-VM2BD | ERST17D-VM6D | ERST17D-VM6BD | ERST17D-YM9BD | ERST20D-VM2D | ERST20D-VM6D | ERST20D-YM9D | ERST30D-VM2ED | ERST30D-VM6ED | ERST30D-YM9E |
| | | Туре | | | | | | Hea | ting and Coo | ling | | | | |
| | | Expansion vessel | | V | V | V | V | V | V | V | V | | | |
| | | Booster heater (2/6/9 kW) | | レ | V | レ | V | V | V | レ | V | V | V | V |
| Dimensions | 5 | HxWxD | mm | 1400x595x680 | 1750x595x680 | 1400x595x680 | 1750x595x680 | 1750x595x680 | 1600x595x680 | 1600x595x680 | 1600x595x680 | 2050x595x680 | 2050x595x680 | 12050x595x680 |
| Weight (em | pty) | | kg | 94 | 116 | 94 | 116 | 118 | 100 | 100 | 102 | 115 | 116 | 117 |
| Control Boa | ard Power si | upply (Phase / V / Hz) | | ~/N, 230V, 50Hz | ~/N, 230V, 50H |
| Heater | Booster | Power supply (V / Phase / Hz) | | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3 ~, 400V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3~, 400V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3~, 400V, 50Hz |
| | heater | Capacity | kW | 2 | 2 | 2+4 | 2 | 3+6 | 2 | 2+4 | 3+6 | 2 | 2+4 | 3+6 |
| | Current | | | | 9 | 26 | 9 | 13 | 9 | 26 | 13 | 9 | 26 | 13 |
| | | Breaker size | Α | 16 | 16 | 32 | 16 | 16 | 16 | 32 | 16 | 16 | 32 | 16 |
| Domestic hot water tank | Volume / I | Materia l | L/- | 170 / Stainless steel (Net) | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) |
| Guranteed | Ambient | | °C | | | | | 0 - | - 35 (≦ 80%R | H) | | | | |
| operating | Outdoor | Heating | °C | | | | | See out | tdoor unit spe | ec table | | | | |
| range *1 | | Cooling | °C | | | | | See outd | oor unit spec | table *2 | | | | |
| Target | Heating | Room temperature | °C | | | | | | 10 - 30 | | | | | |
| temperature | | Flow temperature | °C | | | | | | 20 - 60 | | | | | |
| range | Coolimg | Room temperature | °C | | | | | | - | | | | A - A+ | |
| | | Flow temperature | °C | 5 - 25 | | | | | | | | | | |
| DHW tank | | Max. hot water temperature | °C | | | | | | 70 | | | | | |
| performano | e | Water heater energy efficiency | class | s A ⁺ | | | | | | | | | | |
| Sound pow | er level (PW | /L) | dB (A) | B(A) 41 | | | | | | | | | | |

*1 The indoor environment must be frost-free.
*2 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.

| Cylinder (| unit (Reve | rsible)> | | | | Medium | capacity | | | | |
|--|-----------------------------|-------------------------------|-----|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|--|
| Model nam | е | | | ERST20C-VM2D | ERST20C-VM6D | ERST20C-YM9D | ERST30C-VM2ED | ERST30C-VM6ED | ERST30C-YM9E | | |
| | | Туре | | | | Heating an | d Cooling | | | | |
| | | Expansion vessel | | V | V | V | | | | | |
| | | Booster heater (2/6/9 kW) | | レ | V | V | レ | レ | レ | | |
| Dimensions | \$ | HxWxD | mm | 1600x595x680 | 1600x595x680 | 1600x595x680 | 2050x595x680 | 2050x595x680 | 2050x595x680 | | |
| Weight (em | ipty) | | kg | 110 | 111 | 112 | 122 | 122 | 124 | | |
| Control Boa | ard Power su | upply (Phase / V / Hz) | | ~/N, 230V, 50Hz | ~/N, 230V, 50H | | |
| Heater | Booster | Power supply (V / Phase / Hz) | | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | $3\sim$, 400V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3 ~, 400V, 50H | | |
| | heater | Capacity | kW | 2 | 2+4 | 3+6 | 2 | 2+4 | 3+6 | | |
| | | Current | Α | 9 | 26 | 13 | 9 | 26 | 13 | | |
| | | Breaker size | Α | 16 | 32 | 16 | 16 | 32 | 16 | | |
| Domestic hot water tank | Volume / N | Materia l | L/- | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) | | |
| Guranteed | Ambient | | °C | | | 0 - 35 (≦ | 80%RH) | | | | |
| operating range *1 | Outdoor | Heating | °C | | | See outdoor u | nit spec table | | | | |
| range - i | | Cooling | °C | | | See outdoor un | it spec table *2 | | | | |
| Target | Heating | Room temperature | °C | | | 10 - | 30 | | | | |
| temperature | | Flow temperature | °C | | | 20 - | 60 | | | | |
| range | Coolimg Room temperature °C | | | | | - | - | | | | |
| Flow temperature °C | | | | A+ 5 - 25 A | | | | | | | |
| DHW tank Max. hot water temperature °C | | | | 70 | | | | | | | |
| performance Water heater energy efficiency class | | | | 3 | | | | | | | |
| Sound power level (PWL) dB (A | | | | B (A) 40 | | | | | | | |

*1 The indoor environment must be frost-free.
*2 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.

| <hydrobox< td=""><td>(Reversil</td><td>ble)></td><td></td><td></td><td>;</td><td>Small capacity</td><td>,</td><td></td><td>Medium</td><td>capacity</td><td></td><td>Large o</td><td>apacity</td></hydrobox<> | (Reversil | ble)> | | | ; | Small capacity | , | | Medium | capacity | | Large o | apacity |
|---|--------------|-------------------------------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Model nam | е | | | ERSD-MED | ERSD-VM2D | ERSD-VM6D | ERSD-YM9D | ERSC-MED | ERSC-VM2D | ERSC-VM6D | ERSC-YM9D | ERSE-MED | ERSE-YM9ED |
| | | Туре | | | | | | Heating a | nd Cooling | | | | • |
| | | Expansion vessel | | - | V | V | V | - | V | V | V | - | - |
| | | Booster heater (2/6/9 kW) | | - | V | V | V | - | V | V | V | - | V |
| Dimensions | 5 | HxWxD | mm | | | | | 800x5 | 30x360 | | | 950x60 | 00x360 |
| Weight (em | pty) | | kg | 38 | 44 | 43 | 44 | 41 | 48 | 48 | 48 | 62 | 64 |
| Control Boa | ard Power su | upply (Phase / V / Hz) | | ~/N, 230V, 50Hz | ∼/N, 230V, 50Hz | ∼/N, 230V, 50Hz | ∼/N, 230V, 50Hz | ~/N, 230V, 50H |
| Heater | Booster | Power supply (V / Phase / Hz) | | - | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3∼, 400V, 50Hz | - | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3∼, 400V, 50Hz | - | 3 ∼, 400V, 50Hz |
| | heater | Capacity | kW | - | 2 | 2+4 | 3+6 | - | 2 | 2+4 | 3+6 | - | 3+6 |
| | | Current | А | = | 9 | 26 | 13 | = | 9 | 26 | 13 | - | 13 |
| | | Breaker size | Α | - | 16 | 32 | 16 | - | 16 | 32 | 16 | - | 16 |
| Guranteed | Ambient | | °C | | | | | 0 - 35 (≦ | 80%RH) | | | | |
| operating range *1 | Outdoor | Heating | °C | | | | | See outdoor i | unit spec table | | | | |
| range i | | Cooling | °C | | | | S | ee outdoor ur | nit spec table * | 2 | | | |
| Target | Heating | Room temperature | °C | 10 - 30 | | | | | | | | | |
| temperature range | | Flow temperature | °C | 20 - 60 | | | | | | | | | |
| range | Coolimg | Room temperature | °C | - | | | | | | | | | |
| | | Flow temperature | °C | | | | | 5 - | 25 | | | | |
| Sound pow | er level (PW | /L) | dB (A) | | 4 | 1 | | 4 | 10 | 40 | 40 | 4 | 5 |
| 1 The indoo | r environme | ent must be frost-free | | | | | | | | | | | |

*1 The indoor environment must be frost-free
*2 If you use our system in cooling mode at the low ambient temperature (10°C or below), there are some risks of plate heat exchanger breaking by frozen water.

Split Type Specifications

| Outdoor | unit | | | | | |
|--------------------|-----------------------------|----------------|-------|-----------------|-----------------|-----------------|
| Outdoor | uiiit | | | | Eco Inverter | |
| Model name | | | | SUZ-SWM40VA | SUZ-SWM60VA | SUZ-SWM80VA |
| Refrigerant | | | | | R32*1 | |
| Dimensions | | H×W×D | mm | 880×840×330 | 880×840×330 | 880×840×330 |
| Weight | | | kg | 54 | 54 | 54 |
| Power supply | (V / Phase / H | lz) | | 230 / 1-ph / 50 | 230 / 1-ph / 50 | 230 / 1-ph / 50 |
| Heating | A7W35*2 | Nominal | kW | 4.0 | 6.0 | 7.5 |
| | | COP | | 5.20 | 4.86 | 4.70 |
| | A2W35*2 | Nominal | kW | 4.0 | 5.0 | 6.5 |
| | | COP | | 3.90 | 3.33 | 3.40 |
| Average clim | ate water | Class | ; | A+++ | A+++ | A+++ |
| outlet 35°C*3 | | η _S | | 180 | 181 | 182 |
| | erage climate water Cl | | | A++ | A++ | A++ |
| outlet 55°C*3 | n n | | | 129 130 | | 131 |
| | IW 200L(L) Load Profile Cla | | ; | A+ | A+ | A+ |
| (Average clin | nate)*4 | ηwh | | 159 148 | | 148 |
| Max outlet w | ater temperati | ure (°C) | | 60 60 | | 60 |
| Cooling | A35W7*2 | Nominal | kW | 4.5 5.0 | | 5.4 |
| | | EER | | 3.29 | 3.03 | 3.00 |
| | A35W18*2 | Nominal | kW | 5.6 | 6.0 | 6.3 |
| | | EER | | 4.97 | 4.88 | 4.80 |
| PWL (Heating |)*5 | | dB(A) | 58 | 60 | 62 |
| Max operatin | g current | | Α | 13.9 | 13.9 | 13.9 |
| Breaker size | | | Α | 16 | 16 | 16 |
| Piping | Diameter | Liquid/Gas | mm | 6.35 / 12.7 | 6.35 / 12.7 | 6.35 / 12.7 |
| | Length | Out-In | m | 5-30 | 5-30 | 5-30 |
| | Height | Out-In | m | Max 30 | Max 30 | Max 30 |
| Guaranteed | | | °C | -20°C~24°C | -20°C~24°C | -20°C~24°C |
| Operating Range | DHW | | °C | −20°C~35°C | -20°C~35°C | -20°C~35°C |
| 90 | Cooling | | °C | 10°C~46°C | 10°C~46°C | 10°C~46°C |

| Dutdooi | unit | | | | Power Inverte | r, Heating only | | | ZUB | ADAN, Heating | only | |
|-------------------------|---------------------------|----------|-------|------------------|--------------------|---------------------|---------------------|--------------------|---------------------|----------------------|----------------------|----------------------|
| Model name | | | | PUD- SWM60VAA | PUD- SWM80V/YAA | PUD- SWM100V/YAA | PUD- SWM120V/YAA | PUD- SHWM60VAA | PUD- SHWM80V/YAA | PUD- SHWM100V/YAA | PUD- SHWM120V/YAA | PUD- 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 | 1020×1050×480 | 1020×1050×480 |
| Weight | | | kg | 101 | 101/114 | 105/118 | 105/118 | 102 | 102/115 | 108/121 | 108/121 | 110/122 |
| Power suppl | y (V / Phase / H | z) | | | | | VAA: 230 / 1 | I-ph / 50, YAA: 40 | 0 / 3-ph / 50 | | | |
| Heating | A7W35*2 | Nominal | kW | 5.0 | 6.0 | 8.0 | 10.0 | 5.0 | 6.0 | 8.0 | 10.0 | 12.0 |
| | | COP | | 4.76 | 4.76 | 5.00 | 4.70 | 4.99 | 5.03 | 5.00 | 4.80 | 4.70 |
| | A2W35*2 | Nominal | kW | 6.0 | 8.0 | 10.0 | 12.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 |
| | | COP | | 3.60 | 3.55 | 3.30 | 3.24 | 3.80 | 3.75 | 3.45 | 3.30 | 3.05 |
| Average clin | | Class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| outlet 35°C* | 3 | ης | | 175 | 178/176 | 178/177 | 177/176 | 178 | 181/179 | 180/178 | 179/177 | 179/177 |
| Average clin | | Class | | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| outlet 55°C* | 3 | ηs | | 130 | 131/130 | 131/130 | 129/128 | 134 | 135/134 | 136/135 | 135/134 | 134/134 |
| | /300L(XL) Load | Class | | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A |
| Profile (Avera | ge climate)* ⁴ | ηwh | | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 145/121 |
| Max outlet w | vater temperati | ıre (°C) | | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| PWL (Heatin | g)* ⁵ | | dB(A) | 55 | 56 | 59 | 60 | 55 | 56 | 59 | 60 | 62 |
| Max operation | ng current | | Α | 16.5 | 22/8 | 26/10 | 28/12 | 16.5 | 22/8 | 26/10 | 28/12 | 35/12 |
| Breaker size | | | Α | 20 | 25/16 | 30/16 | 32/16 | 20 | 25/16 | 30/16 | 32/16 | 40/16 |
| Piping | Diameter Liquid/Gas mm | | 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 | 6.35/12.7 |
| | Length Out-In m | | m | 2 - 30 | 2 - 30 | 2 - 30 | 2 - 30 | 2 - 30 | 2 - 30 | 2 - 30 | 2 - 30 | 2 - 25 |
| | Height Out-In m | | m | Max. 30 | Max. 30 | Max. 30 | Max. 30 | Max. 30 | Max. 30 | Max. 30 | Max. 30 | Max. 25 |
| Guaranteed Operating | Heating | | °C | –25°C~24°C | –25°C~24°C | -25°C~24°C | -25°C~24°C | -28°C~24°C | -28°C~24°C | -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 | -25°C~35°C | -28°C~35°C | -28°C~35°C | –28°C~35°C | -28°C~35°C | –28°C~35°C |

^{*1} 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 EN14825. *4 \(\text{Nw} \) would values are measured based on EN14825. *4 \(\text{Nw} \) would values are measured based on EN12102.

| R32 | Split type | Small capacity (Under 5kW)* | Medium capacity (6.0kW-14kW)* |
|------------|---------------------------|-----------------------------|-------------------------------|
| | ZUBADAN New Generation | | PUD-SHWM60/80/100/120/140 |
| | POWER INVERTER | | PUD-SWM60/80/100/120 |
| | Eco Inverter | SUZ-SWM40/60 | SUZ-SWM80 |

R410A

Split Type Specifications

| Dutdoor | aiiit | | | | | Power Inverter | | |
|--------------------|-------------------------------|------------|-------|-------------------------|--------------------------|--------------------------------|------------------------|------------------------|
| Model name | • | | | PUHZ- SW75V/YAA(-BS) | PUHZ- SW100V/YAA(-BS) | PUHZ- SW120V/YHA(-BS) | PUHZ- SW160YKA(-BS) | PUHZ- SW200YKA(-BS) |
| Refrigerant | | | | | | R410A*1 | | |
| Dimensions | | H×W×D | mm | 1020×1050×480 | 1020×1050×480 | 1350×950×330 | 1338×1050×330 | 1338×1050×330 |
| Weight | | | kg | 92/104 | 114/126 | 118/130 | 136 | 136 |
| Power suppl | y (V / Phase / H | lz) | | | VAA, VHA: 23 | 30 / 1-ph / 50, YAA, YHA, YKA: | 400 / 3-ph / 50 | |
| Heating | A7W35*2 | Nominal | kW | 8.0 | 11.2 | 16.0 | 22.0 | 25.0 |
| | | COP | | 4.40 | 4.46 | 4.10 | 4.20 | 4.00 |
| | A2W35*2 | Nominal | kW | 7.5 | 10.0 | 12.0 | 16.0 | 20.0 |
| | | COP | | 3.40 | 3.32 | 3.24 | 3.11 | 2.80 |
| Average clin | | Class | | A++ | A++ | A ⁺⁺ | A ⁺⁺ | A++ |
| outlet 35°C*3 | 3 | ης | | 162/160 | 167/165 | 162/162 | 161 | 163 |
| | rerage climate water Class | | | A++ A++ A++ | | A++ | A++ | |
| outlet 55°C*3 | rtlet 55°C*3 | | | 129/128 | 130/129 | 125/125 | 125 | 127 |
| | W 200L(L)/300L(XL) Load Class | | | A+ / A | A+ / A | A+ / A | - | - |
| Profile (Avera | ige climate)*4 | ηwh | | 145/120 | 145/120 | 138/118 | - | - |
| Max outlet w | vater temperati | ıre (°C) | | 60 | 60 | 60 | - | - |
| Cooling | A35W7*2 | Nominal | kW | 7.1 | 10.0 | 12.5 | 16.0 | 20.0 |
| | | EER | | 2.70 | 2.83 | 2.32 | 2.76 | 2.25 |
| | A35W18*2 | Nominal | kW | 7.1 | 10.0 | 14.0 | 18.0 | 22.0 |
| | | EER | | 4.43 | 4.47 | 4.08 | 4.56 | 4.1 |
| PWL (Heating | g)* ⁵ | | dB(A) | 58 | 60 | 72 | 78 | 78 |
| Max operatir | ng current | | Α | 22.0/11.5 | 28.0/12.0 | 29.5/13.0 | 19.0 | 21.0 |
| Breaker size | | | Α | 25/16 | 32/16 | 32/16 | 25 | 32 |
| Piping | Diameter | Liquid/Gas | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/25.4 | 12.7/25.4 |
| | Length Out-In | | m | 40 | 75 | 75 | 80 | 80 |
| | Height | Out-In | m | 10 | 10 | 30 | 30 | 30 |
| Guaranteed | Heating | | °C | -20°C~21°C | -20°C~21°C | -20°C~21°C | -20°C~21°C | -20°C~21°C |
| Operating Range | DHW | | °C | -20°C~35°C | -20°C~35°C | -20°C~35°C | -20°C~35°C | -20°C~35°C |
| | Cooling | | °C | -15°C~46°C | -15°C~46°C | -15°C~46°C | -15°C~46°C | -15°C~46°C |

| | | | | | ZUBA | DAN | |
|-------------------------|---|----------------|-------|-------------------|-------------------------------|-------------------------------|---------------|
| Model name | | | | PUHZ- | PUHZ- | PUHZ | PUHZ- |
| woder name | | | | SHW80V/YAA(-BS) | SHW112V/YAA(-BS) | SHW140YHA(-BS) | SHW230YKA2 |
| Refrigerant | | | | | R410 | 0A*1 | |
| Dimensions | | H×W×D | mm | 1020×1050×480 | 1020×1050×480 | 1350×950×330 | 1338×1050×330 |
| Weight | | | kg | 116/128 | 116/128 | 134 | 143 |
| Power supply | (V / Phase / H | lz) | | | VAA, VHA: 230 / 1-ph / 50, Y/ | AA, YHA, YKA: 400 / 3-ph / 50 | |
| Heating | A7W35*2 | Nominal | kW | 8.0 | 11.2 | 14.0 | 23.0 |
| | | COP | | 4.65 | 4.40 | 4.22 | 3.65 |
| | A2W35*2 | Nominal | kW | 8.0 | 11.2 | 14.0 | 23.0 |
| | | COP | | 3.55 | 3.22 | 2.96 | 2.37 |
| Average clim | | Class | | A ⁺⁺ | A++ | A++ | A++ |
| outlet 35°C*3 | | η _S | | 169/167 | 171/169 | 163 | 164 |
| | rage climate water Class | | | A++ | A++ | A++ | A++ |
| outlet 55°C*3 | ηs | | | 133/132 | 135/135 | 127 | 127 |
| | 200L(L)/300L(XL) Load Clase (Average climate)*4 | | | A ⁺ /A | A+/A | A+/A | - |
| Profile (Average | ile (Average climate)*4 | | | 145/120 | 145/120 | 138/118 | - |
| Max outlet w | outlet water temperature (°C) | | | 60 | 60 | 60 | 60 |
| Cooling | A35W7*2 | Nominal | kW | 7.1 | 10.0 | 12.5 | 20.0 |
| | | EER | | 3.31 | 2.83 | 2.17 | 2.22 |
| | A35W18*2 | Nominal | kW | 7.1 | 10 | 12.5 | 20.0 |
| | | EER | | 4.52 | 4.74 | 4.26 | 3.55 |
| PWL (Heating | j)* ⁵ | | dB(A) | 59 | 60 | 70 | 75 |
| Max operatin | g current | | Α | 22/13 | 28/13 | 13 | 20 |
| Breaker size | | | Α | 25/16 | 32/16 | 16 | 25 |
| Piping | Diameter | Liquid/Gas | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 12.7/25.4 |
| | Length | Out-In | m | 75 | 75 | 75 | 80 |
| | Height | Out-In | m | 30 | 30 | 30 | 30 |
| Guaranteed Operating | Heating | | °C | -28°C~21°C | -28°C~21°C | -28°C~21°C | −25°C~21°C |
| Range | DHW | | °C | −28°C~35°C | −28°C~35°C | −28°C~35°C | −25°C~35°C |
| | Cooling | | °C | -15°C~46°C | -15°C~46°C | -15°C~46°C | -15°C~46°C |

^{*1} 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 EN14825. *4 \(\text{ Nw} \) walues are measured based on EN14825. *4 \(\text{ Nw} \) walues are measured based on EN12102.

| R410A | Split type | Medium capacity (7.5k | W-14kW) | Large capacity (≥16kW) |
|--------------|----------------|-----------------------|-------------|------------------------|
| | ZUBADAN | PUHZ-SHW80/112AA | PUHZ-SHW140 | PUHZ-SHW230 |
| | POWER INVERTER | PUHZ-SW75/100AA | PUHZ-SW120 | PUHZ-SW160/200 |

Packaged Type Specifications

Indoor unit

<Cylinder unit (Heating only)>

| Model n | | · (Houth | ing only/> | | EHPT17X- VM2D | EHPT17X- VM6D | EHPT17X- YM9D | EHPT20X- MED | EHPT20X- VM6D | EHPT20X- YM9D | EHPT20X- YM9ED | EHPT20X- TM9D | EHPT20X- MHEDW | EHPT30X- MED | EHPT30X- YM9ED |
|----------------------|---|------------------|-------------------------|---------|------------------|---|------------------|-----------------|------------------|------------------|-------------------|------------------|-------------------|-----------------|-------------------|
| | | Typ | ne. | | VIVIZD | VIVIOD | TIVISD | IVILD | VIVIOD | Heating only | TIVISED | TIVISD | IVIIIEDVV | IVILD | TIVISED |
| | | | nersion heater | | - | - | - | - | - | - | - | - | 1 | - | _ |
| | | Exp | ansion vessel | | / | 1 | / | - | / | / | - | 1 | - | - | - |
| | | Boo | ster heater | | / | 1 | / | - | 1 | 1 | 1 | 1 | - | - | 1 |
| Dimensi | ons | H×V | V×D | mm | | 1400×595–680 1600×595×680 | | | | | | | 2050×5 | 95×680 | |
| Weight (| (empty) | | | kg | 86 | 87 | 89 | 87 | 94 | 96 | 90 | 96 | 94 | 106 | 110 |
| Control | Control board power supply (Phase / V / Hz) | | | | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz |
| Heater | Booster | | ver supply (Phase / V / | Hz) | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3~, 400V, 50Hz | - | ~/N, 230V, 50Hz | 3~, 400V, 50Hz | 3~, 400V, 50Hz | 3~, 230V, 50Hz | - | - | 3~, 400V, 50Hz |
| | heater* | ² Cap | acity | kW | 2 | 2+4 | 3+6 | - | 2+4 | 3+6 | 3+6 | 3+6 | - | - | 3+6 |
| | | Cur | rent | А | 9 | 26 | 13 | - | 26 | 13 | 13 | 23 | - | - | 13 |
| | | Bre | aker size | А | 16 | 32 | 16 | - | 32 | 16 | 16 | 32 | - | - | 16 |
| | Immers | sion Pov | ver supply (Phase / V / | Hz) | - | - | - | - | - | - | - | - | ~/N, 230V, 50Hz | - | - |
| | heater | Cap | acity | kW | - | - | - | - | - | - | - | - | 3 | - | - |
| | | Cur | rent | А | - | - | - | - | - | - | - | - | 13 | - | - |
| | | Bre | aker size | А | - | - | - | - | - | - | - | - | 16 | - | - |
| Domesti hot water | | Volume / | Material | L/- | 170/ | 170 / Stainless steel (Net) 200 / Stainless steel (Net) | | | | | | 300 / Stainle | ss steel (Net) | | |
| Guarant | | Ambient | | °C | | | | | (| 0 - 35 (≦80%RH | i) | | | | |
| operatin range*1 | g | Outdoor | Heating | °C | | | | | See ou | ıtdoor unit spe | c table | | | | |
| range . | | | Cooling | °C | | | | | | - | | | | | |
| Target | | Heating | Room temperature | °C | | | | | | 10~30 | | | | | |
| tempera range | ture | | Flow temperature | °C | | | | | | 20~60 | | | | | |
| range | | Cooling | Room temperature | °C | | | | | | - | | | | | |
| | | | Flow temperature | °C | | | | | | - | | | | | |
| DHW tar | | Max. hot | water temperature | °C | | 70 | | *3 | | | 70 | | | *3 | 70 |
| perform | ance | Water he | ater emergy efficiency | / class | | | | | | A+ | | | | | |
| Sound p | ower lev | el (PWL) | | dB (A) | | | | | | 40 | | | | | |

*1 The indoor environment must be frost-free.

*2 Do not fit immersion heaters without thermal cut-out. Use only Mitsubishi Electric service parts as a direct replacement.

*3 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower than maximum outlet water of outdoor unit.

For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

<Cylinder unit (Reversible)>

| Model n | ame | | | | ERPT17X- VM2D | ERPT20X- MD | ERPT20X- VM2D | ERPT20X- VM6D | ERPT30X- VM2ED | ERPT30X- VM6ED | | |
|---------------------|--------------------------------|----------|-----------------------------|-------|-----------------------------------|---|------------------|------------------|-------------------|-------------------|--|--|
| | | Тур | е | | | | Heating a | nd cooling | | | | |
| | | Imn | nersion heater | | - | - | - | - | - | - | | |
| | | Exp | ansion vessel | | 1 | 1 | 1 | 1 | - | - | | |
| | | Boo | ster heater | | / | - | 1 | 1 | 1 | 1 | | |
| Dimensi | ons | H×V | V×D | mm | 1400×595×680 | | 1600×595×680 | | 2050×595×68 | | | |
| Weight (| (empty) | | | kg | 86 | 93 | 94 | 95 | 107 | 108 | | |
| Control | board po | wer supp | ly (Phase / V / Hz) | | | | ~/N, 23 | 0V, 50Hz | | | | |
| Heater Booster | | r Pov | ver supply (Phase / V / | Hz) | ~/N, 230V, 50Hz | - | | ~/N, 23 | 0V, 50Hz | | | |
| | heater | Cap | acity | kW | 2 | - | 2 | 2+4 | 2 | 2+4 | | |
| | | Cur | rent | А | 9 | - | 9 | 26 | 9 | 26 | | |
| | | Bre | aker size | Α | 16 | - | 16 | 32 | 16 | 32 | | |
| | Immers | | Power supply (Phase / V / I | | - | - | - | - | - | - | | |
| | heater* | Cap | Capacity | | - | - | - | - | - | - | | |
| | | Cur | Current | | - | - | - | - | - | - | | |
| | | Bre | aker size | А | - | - | - | - | - | - | | |
| Domesti hot wate | | Volume / | Material | L/- | 170 / Stainless steel (Net) | Stainless 200 / Stainless steel (Net) 300 / Stainless steel (Net) | | | | | | |
| Guarant | | Ambient | | °C | 0 - 35 (≦80%RH) | | | | | | | |
| operatin range*1 | g | Outdoor | Heating | °C | | See outdoor unit spec table | | | | | | |
| range . | | | Cooling | °C | | | See outdoor u | nit spec table | +4 | | | |
| Target | | Heating | Room temperature | °C | | | 10 | ~30 | | | | |
| tempera range | ture | | Flow temperature | °C | | | 20 | ~60 | | | | |
| range | | Cooling | Room temperature | °C | | | | - | | | | |
| | | | Flow temperature | °C | | | 5~ | 25 | | | | |
| DHW tar | | Max. hot | water temperature | °C | 70 | *3 | | 7 | 0 | | | |
| perform | ance | Water he | ater emergy efficiency | class | | A | λ+ | | | A | | |
| Sound p | Sound power level (PWL) dB (A) | | | | | | 4 | 10 | | | | |

*1 The indoor environment must be frost-free.

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*1 The Indoor environment must be frost-tree.
*2 Do not fit immersion heaters without thermal cut-out. Use only Mitsubishi Electric service parts as a direct replacement.
*3 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower

than maximum outlet water of outdoor unit.

For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

*4 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat



Packaged Type Specifications

<Hydrobox (Heating only)>

| wodel n | | | | | | MED. | VM2D | VM6D | YM9D | YM9ED | | |
|---|--------------------------|------|------|-------------------------|-----|------|-----------------------------------|------------|-----------|---------|--|--|
| | | | Тур | e | | | Н | eating on | ly | | | |
| | | | Imn | nersion heater | | - | - | - | - | - | | |
| | | | Exp | ansion vessel | | - | 1 | 1 | 1 | - | | |
| | | | Boo | ster heater | | - | 1 | 1 | 1 | 1 | | |
| Dimensi | ons | | H×V | V×D | mm | | 80 | 00×530×3 | 60 | | | |
| Weight (empty) | | | | | kg | 25 | 25 32 33 33 28 ~/N, 230V, 50Hz | | | | | |
| Control board power supply (Phase / V / Hz) | | | | | | | ~/N, 230V, 50Hz | | | | | |
| Heater | Boost | | Pov | ver supply (Phase / V / | Hz) | - | ~/N, 230 | OV, 50Hz | 3~, 400 | V, 50Hz | | |
| | heate | r | Сар | acity | kW | - | 2 | 2+4 | 3+6 | 3+6 | | |
| | | | Cur | rent | Α | - | 9 | 26 | 13 | 13 | | |
| | | | Bre | aker size | Α | - | 16 | 32 | 16 | 16 | | |
| Guarant | | Amb | ient | | °C | | 0~35 (≦80%RH) | | | | | |
| operatin range*1 | g | Outo | loor | Heating | °C | | See outd | oor unit s | pec table | | | |
| range . | | | | Cooling | °C | | | - | | | | |
| Target | | Heat | ing | Room temperature | °C | | | 10~30 | | | | |
| tempera range | ture | | | Flow temperature | °C | | | 20~60 | | | | |
| range | Cooling Room temperature | | °C | | | - | | | | | | |
| | Flow temperature | | | °C | | | - | | | | | |
| Sound p | Sound power level (PWL) | | | | | | | 40 | | | | |
| | | | | | | | | | | | | |

^{*1} The indoor environment must be frost-free.

| Model na | ame | | | | | ERPX- MD | ERPX- VM2D | ERPX- VM6D | ERPX- YM9D | |
|---|-------|-------|----------|-------------------------|--------|---------------|-----------------|---------------|---------------|--|
| | | | Тур | e | | | Heating an | d cooling | | |
| | | | Imn | nersion heater | | - | - | - | - | |
| | | | Ехр | ansion vessel | | 1 | 1 | 1 | / | |
| | | | Воо | ster heater | | - | / / / | | | |
| Dimensi | ons | | H×V | V×D | mm | | 800×53 | 30×360 | | |
| Weight (empty) | | | | | kg | 30 | 33 | 34 | 35 | |
| Control board power supply (Phase / V / Hz) | | | | | | | ~/N, 230V, 50Hz | | | |
| Heater Booste | | | Pow | ver supply (Phase / V / | Hz) | - | ~/N, 230 | V, 50Hz | 3~, 400V, 50H | |
| | heate | r | Capacity | | kW | - | 2 | 2+4 | 3+6 | |
| | | | Current | | Α | - | 9 | 26 | 13 | |
| | | | Brea | aker size | Α | - | 16 | 32 | 16 | |
| Guarante | | Ambi | ent | | °C | 0~35 (≦80%RH) | | | | |
| operating range*1 | g | Outdo | oor | Heating | °C | Se | e outdoor u | ınit spec tal | ble | |
| range . | | | | Cooling | °C | See | outdoor un | it spec tabl | e *2 | |
| Target | | Heati | ng | Room temperature | °C | | 10- | -30 | | |
| tempera range | ture | | | Flow temperature | °C | | 20- | -60 | | |
| Cod | | Cooli | ng | Room temperature | °C | | - | - | | |
| | | | | Flow temperature | °C | - | | | | |
| Sound power level (PWL) | | | | | dB (A) | 40 | | | | |

^{*1} The indoor environment must be frost-free.



EHPY, EHPY, EHPY, EHPY, EHPY

*Rated capacity is at conditions A2W35. (according to EN14511)



^{*}Rated capacity is at conditions A2W35. (according to EN14511)

Outdoor unit

| Model name | | | | PUZ- WM50VHA | PUZ- WM60VAA | PUZ- WM85V/YAA | PUZ- WM112V/YAA | PUZ- HWM140V/YHA | | | |
|-----------------------|---------------|----------------|-------|--|-----------------|-------------------|--------------------|---------------------|--|--|--|
| Refrigerant | | | | | | R32*1 | | | | | |
| Dimensions | | H×W×D | mm | 943×950×330 | 1020×1050×480 | 1020×1050×480 | 1020×1050×480 | 1350×1020×330 | | | |
| Weight | | | kg | 71 | 98 | 98/111 | 119/132 | 132/143 | | | |
| Power supply | (V / Phase / | Hz) | | VHA • VAA: 230 / 1-ph / 50, YHA • YAA: 400 / 3-ph / 50 | | | | | | | |
| Heating | A7W35*2 | Nominal | kW | 5.0 | 6.0 | 8.5 | 11.2 | 14.0 | | | |
| | | COP | | 5.00 | 5.06 | 4.80 | 4.70 | 4.46 | | | |
| | A2W35*2 | Nominal | kW | 5.0 | 6.0 | 8.5 | 11.2 | 14.0 | | | |
| | | COP | COP | | 3.75 | 3.51 | 3.44 | 3.15 | | | |
| Average climate water | | Class | ; | A+++ | A+++ | A+++ | A+++ | A+++ | | | |
| outlet 35°C*3 | | η _S | | 183 | 190 | 193/190 | 191/189 | 176/175 | | | |
| Average clim | | Class | ; | A++ | A++ | A++ | A++ | A++ | | | |
| outlet 55°C*3 | | ηs | | 129 | 142 | 139/138 | 134/133 | 132/131 | | | |
| DHW 200L(L) I | | Class | ; | A+ | A+ | A+ | A+ | A+ | | | |
| Profile (Average | ge climate)*4 | ηwh | | 135 | 145 | 145 | 148 | 130 | | | |
| Max outlet w | ater tempera | ature (°C) | | 60 | 60 | 60 | 60 | 60 | | | |
| Cooling | A35W7*2 | Nominal | kW | 4.5 | 6.0 | 7.5 | 10.0 | 11.9 | | | |
| | | EER | | 3.40 | 3.30 | 3.15 | 3.30 | 3.00 | | | |
| | A35W18*2 | Nominal | kW | 4.5 | 6.0 | 7.5 | 10.0 | 11.1 | | | |
| | | EER | | 5.00 | 4.45 | 4.90 | 4.90 | 4.10 | | | |
| PWL (Heating | g)*5 | | dB(A) | 61 | 58 | 58 | 60 | 67 | | | |
| Max operatin | g current | | Α | 13.0 | 13.0 | 22.0/11.5 | 28.0/13.0 | 35.0/13.0 | | | |
| Breaker size | | | Α | 16 | 16 | 25/16 | 32/16 | 40/16 | | | |
| Piping | Diameter | Liquid/Gas | mm | - | - | - | - | - | | | |
| | Length | Out-In | m | - | - | - | - | - | | | |
| | Height | Out-In | m | - | - | - | - | - | | | |
| Guaranteed | Heating | | °C | -20°C~21°C | -20°C~21°C | -20°C~21°C | -25°C~21°C | -28°C~21°C | | | |
| Operating Range | DHW | | °C | -20°C~35°C | -20°C~35°C | -20°C~35°C | -25°C~35°C | -28°C~35°C | | | |
| italige | Cooling | | °C | 10°C~46°C | 10°C~46°C | 10°C~46°C | 10°C~46°C | 10°C~46°C | | | |

^{*1} 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 vourself or diseasemble the product yourself and always ask a professional 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

^{*2} If you use our system in cooling mode at the low ambient temperature (10°C or below), there are some risks of plate heat exchanger breaking by frozen water.

input is not included.).
*3 ηs values are measured based on EN14825.

^{*4} nwh values are measured based on EN16147. *5 Sound power levels are measured based on EN12102.

Optional Parts

Split type

| Parts name | Model name | Cylinder | Hydrobox | Remarks |
|----------------------------|-----------------|----------|----------|---|
| Wireless remote controller | PAR-WT50R-E | V | V | |
| Wireless receiver | PAR-WR51R-E | V | V | |
| Thermistors | PAC-SE41TS-E | V | V | For room temp. |
| | PAC-TH011-E | V | V | For buffer and zone (flow and return temp.) |
| | PAC-TH011TK2-E | - | V | For tank temp. (5m) |
| | PAC-TH011TKL2-E | - | V | For tank temp. (30m) |
| | PAC-TH012HT-E | V | V | For boiler and buffer (5m) |
| | PAC-TH012HTL-E | レ | V | For boiler and buffer (30m) |
| Immersion heater | PAC-IH01V2-E | V | - | 1Ph 1kW |
| | PAC-IH03V2-E | V | - | 1Ph 3kW |
| Joint pipe | PAC-SG72RJ-E | レ | V | For PUHZ-SW75 ø6.35 → ø9.52 |
| | PAC-SG73RJ-E | - | V | For PUHZ-SW200YKA/SHW230YKA2 ø9.52 → ø12.7 |
| | PAC-SG74RJ-E | レ | V | For PUHZ-SW75 ø12.7 → ø15.88 |
| | PAC-SH30RJ-E | レ | V | For PUHZ-SW75AA ø9.52 → 6.35 |
| | PAC-SH50RJ-E | レ | V | For PUHZ-SW75AA ø15.88 → 12.7 |
| Wi-Fi interface | MAC-567IF-E | レ | V | |
| 2 Zone kit | PAC-TZ02-E | レ | V | |
| Expansion vessel | PAC-EVP12-E1 | レ | - | 12L |

<Outdoor unit>

| Parts name | Model name | R: | 32 (Eco Inverte | er) | R3 | 2 Heating only | (Power Inver | ter) | | R32 Hea | ating only (ZU | BADAN) | |
|--|----------------|-------------|-----------------|-------------|--------------|----------------|-----------------|-----------------|---------------|-----------------|------------------|------------------|------------------|
| | | SUZ-SWM40VA | SUZ-SWM60VA | SUZ-SWM80VA | PUD-SWM60VAA | PUD-SWM80V/YAA | PUD-SWM100V/YAA | PUD-SWM120V/YAA | PUD-SHWM60VAA | PUD-SHWM80V/YAA | PUD-SHWM100V/YAA | PUD-SHWM120V/YAA | PUD-SHWM140V/YAA |
| Connector for drain hose heater signal output | PAC-SE60RA-E | - | - | - | V | V | V | V | V | V | V | V | V |
| Air discharge guide | MAC-886SG-E | V | レ | V | - | - | - | - | - | - | - | - | - |
| | PAC-SG59SG-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SH96SG-E*1 | - | - | - | V*1 | V*1 | レ*1 | レ*1 | レ*1 | レ*1 | V*1 | V*1 | V*1 |
| Air protection guide | PAC-SH63AG-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SH95AG-E*1 | - | - | - | レ*1 | レ*1 | レ*1 | レ*1 | レ*1 | レ*1 | レ*1 | レ*1 | レ*1 |
| Attachement | PAC-SJ82AT-E | - | - | - | V | V | V | レ | V | V | V | V | V |
| Drain socket*2 | PAC-SG61DS-E | - | - | - | V | レ | V | レ | レ | V | V | V | V |
| Centralized drain pan*2 | PAC-SG64DP-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SH97DP-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SJ83DP-E | - | - | - | V | レ | V | レ | レ | V | V | V | V |
| Base heater | MAC-642BH-U1 | V | V | V | - | - | - | - | - | - | - | - | - |
| Control/Service tool | PAC-SK52ST | - | - | - | V | V | V | V | V | V | V | V | V |

*1 Attachment (PAC-SJ82AT-E) is necessary for the Air guide *2 Cannot be used for cold climate.

| Parts name | Model name | | R41 | 0A (Power Inv | erter) | | | R410A (Z | UBADAN) | |
|--|--------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|------------------|----------------|-----------------|
| | | PUHZ-SW75V/YAA | PUHZ-SW100V/YAA | PUHZ-SW120V/YHA | PUHZ-SW160YKA | PUHZ-SW200YKA | PUHZ-SHW80V/YAA | PUHZ-SHW112V/YAA | PUHZ-SHW140YHA | PUHZ-SHW230YKA2 |
| Connector for drain hose heater signal output | PAC-SE60RA-E | L | L | ~ | L | L | V | V | V | V |
| Air discharge guide | MAC-886SG-E | - | - | - | - | - | - | - | - | - |
| | PAC-SG59SG-E | - | - | V | - | - | - | - | V | - |
| | PAC-SH96SG-E | V | V | V | V | レ | V | V | - | V |
| Air protection guide | PAC-SH63AG-E | - | - | V | - | - | - | - | V | - |
| | PAC-SH95AG-E | V | V | - | V | V | V | V | - | V |
| Attachement | PAC-SJ82AT-E | V | V | - | - | - | V | V | - | V |
| Drain socket*2 | PAC-SG61DS-E | V | V | V | V | V | V | V | - | - |
| Centralized drain pan*2 | PAC-SG64DP-E | - | - | V | - | - | - | - | - | - |
| | PAC-SH97DP-E | - | - | - | V | V | - | - | - | - |
| | PAC-SJ83DP-E | V | V | - | - | - | V | V | - | - |
| Base heater | MAC-642BH-U1 | - | - | - | - | - | - | - | - | - |
| Control/Service tool | PAC-SK52ST | V | V | L | レ | L | L | L | V | L |

*1 Attachment (PAC-SJ82AT-E) is necessary for the Air guide *2 Cannot be used for cold climate.

Interface/Flow Temperature Controller

Split type

| Parts name | Model name | Description |
|---------------------------------|----------------|-----------------------|
| Capacity step control interface | PAC-IF011B-E | 1 PC board w/ Case |
| Flow temperature controller | PAC-IF032B-E | 1 PC board w/ Case |
| | PAC-IF033B-E | 1 PC board w/ Case |
| | PAC-IF033PCB-E | 10 PC board w/o case |
| System Controllers | PAC-IF071B-E | 1 PC board w/ Case |
| Pressure sensor | PAC-PS01-E | For SUZ-SWM40/60/80VA |
| Flow sensor | PAC-FS01-E | |
| Thermistor | PAC-TH011-E | |

Optional Parts

Packaged type <Indoor unit>

| Parts name | Model name | Cylinder | Hydrobox | Remarks |
|----------------------------|-----------------|--------------------------|----------|---|
| Wireless remote controller | PAR-WT50R-E | V | V | |
| Wireless receiver | PAR-WR51R-E | V | V | |
| Thermistors | PAC-SE41TS-E | V | V | For room temp. |
| | PAC-TH011-E | V | V | For buffer and zone (flow and return temp.) |
| | PAC-TH011TK2-E | - | V | For tank temp. (5m) |
| | PAC-TH011TKL2-E | - | V | For tank temp. (30m) |
| | PAC-TH012HT-E | V | V | For boiler and buffer (5m) |
| | PAC-TH012HTL-E | V | V | For boiler and buffer (30m |
| Immersion heater | PAC-IH01V2-E | ✓ (Except EHPT20X-MHEDW) | - | 1Ph 1kW |
| | PAC-IH03V2-E | ✓ (Except EHPT20X-MHEDW) | - | 1Ph 3kW |
| EHPT accessories for UK | PAC-WK02UK-E | V | - | |
| Wi-Fi interface | MAC-567IF-E | V | V | |
| 2 Zone kit | PAC-TZ02-E | V | V | |
| Expansion vessel | PAC-EVP12-E1 | V | - | 12L |

Interface/Flow Temperature Controller

Packaged type

| Parts name | Model name | Description |
|-----------------------------|----------------|----------------------|
| Flow temperature controller | PAC-IF033B-E | 1 PC board w/ Case |
| | PAC-IF033PCB-E | 10 PC board w/o case |
| System Controllers | PAC-IF072B-E | |
| Flow sensor | PAC-FS01-E | |
| Thermistor | PAC-TH011-E | |

<Outdoor unit>

| Parts name | Model name | | R32 (Po | wer Inverter) | | |
|--|--------------|-------------|-------------|---------------|----------------|-----------------|
| | | PUZ-WM50VHA | PUZ-WM60VAA | PUZ-WM85V/YAA | PUZ-WM112V/YAA | PUZ-HWM140V/YHA |
| Connector for drain hose heater signal output | PAC-SE60RA-E | V | v | V | V | L |
| Air discharge guide | PAC-SG59SG-E | V | - | - | - | V |
| | PAC-SH96SG-E | - | V* | V* | V* | - |
| Air protection guide | PAC-SH63AG-E | V | - | - | - | V |
| | PAC-SH95AG-E | - | V* | V* | レ ∗ | - |
| Attachement | PAC-SJ82AT-E | - | V | V | V | - |
| Drain socket | PAC-SG61DS-E | V | V | V | V | - |
| Centralized drain pan | PAC-SG64DP-E | V | - | - | - | - |
| | PAC-SJ83DP-E | - | V | V | V | - |

*Attachment (PAC-SJ82AT-E) is necessary for the Air Guide.

R32

Ground Source Heat Pump Specifications

| | | | | Specification with 38% propylene gl |
|-----------------------------|---------------------------|-------------------------|---------------------|-------------------------------------|
| Model name | | | | EHGT17D-YM9ED |
| Heating Capacity (Min-Max) | | | | 2.5-10.0kW |
| Heat Output B0/W35 (Rated) | | | | 5.0kW |
| COP B0/W35 | | | | 4.58 |
| SCOP (Average Climate) | Low Temp | | | 5.27 |
| | Rank | | | A ⁺⁺⁺ |
| | η _S *2 | | | 203% |
| | Mid Temp | | | 3.96 |
| | Rank | | | A+++ |
| | η _{s*2} | | | 150% |
| Load Profile | Лwh | | | 134% |
| Average Climate)*3 | Rank | | | A ⁺ |
| Sound Power Level (Rated)*4 | | | | 42dB(A) |
| Refrigerant /Amount | | | | R32*1/0.9kg |
| GWP | | | | 608 |
| Dimensions (HxWxD) | | | | 1.750mm×680mm |
| OHW Tank | | | | 170L (Net) |
| Weight | | | | Unit 181kg |
| Electrical data | | | Power supply | 3ph/400V/50Hz |
| Liceti icai data | Heat pump Booster heater | Tiout pump | Max current | 8A |
| | | Breaker | 16A | |
| ectives data | | Rooster heater | Power supply | 3ph/400V/50Hz |
| | | Booster Heater | | 3kW+6kW |
| | | | Capacity Current | 13A |
| | | | Breaker | 15A 16A |
| Connections | Water | Deimonus airessit | Dreaker | Ø28mm |
| Connections | vvater | Primary circuit | | |
| | D.i. | DHW circuit | | ø22mm |
| | Brine | Brine circuit | | ø28mm |
| Operating range | Heating | Room temperature | | 10~30°C |
| | 51.04 | Flow temperature | | 20~60°C |
| | DHW | | | 40~60°C |
| | Legionella preve | | | 60~70°C |
| Guaranteed operating range | | Ambient | | 0~35°C |
| | | | | ≦80%RH |
| | | Water outlet temperatur | re | 20~60°C |
| | | Brine inlet temperature | | -8~30°C |
| | | Min. brine outlet tempe | | -12°C |
| low rate range | | Primary circuit | Max. | 27.7L/min |
| | | | Min. | 7.1L/min |
| | | Brine circuit | Max. | 27.7L/min |
| | | | Min. | 7.1L/min |
| leat source fluid type | | | | 29 WT% Bioethanol |
| | | | | 38 WT% Propylene glycol |
| | | | | 25 WT% Ethylene glycol |

^{*1} 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 ns values are measured based on EN14825. *3 nwh values are measured based on EN16147. *4 Sound power levels are measured based on EN12102.

D Generation

Combination Table

Split Indoor/outdoor unit

| Split indoor/ou combination | ıtdoor unit | | | | | | R | 32 | | | | | | | | | R | 410 | Α | | | | Hyb | TA/ | AT\ sys | V tem |
|-----------------------------|--------------------------------|-------------|-------------|-------------|--------------|----------------|-----------------|-----------------|---------------|-----------------|------------------|------------------|------------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|------------------|----------------|-----------------|----------------|-----------------------|-----------------------|-----------------------|
| | | | P | owe | er in | vert | er | | | ZUI | BAE | AN | | Po | owe | r in | vert | er | Z | UBA | ADA | N | Mr. SLIM+ | F | UN | iΥ |
| | | SUZ-SWM40VA | SUZ-SWM60VA | SUZ-SWM80VA | PUD-SWM60VAA | PUD-SWM80V/YAA | PUD-SWM100V/YAA | PUD-SWM120V/YAA | PUD-SHWM60VAA | PUD-SHWM80V/YAA | PUD-SHWM100V/YAA | PUD-SHWM120V/YAA | PUD-SHWM140V/YAA | PUHZ-SW75V/YAA | PUHZ-SW100V/YAA | PUHZ-SW120V/YHA | PUHZ-SW160YKA | PUHZ-SW200YKA | PUHZ-SHW80V/YAA | PUHZ-SHW112V/YAA | PUHZ-SHW140YHA | PUHZ-SHW230YKA2 | PUHZ-FRP71VHA2 | PUMY-P112VKM5/YKM(E)4 | PUMY-P125VKM5/YKM(E)4 | PUMY-P140VKM5/YKM(E)4 |
| Heating only | EHST17D-VM2D | • | • | • | • | • | | | • | • | | | | • | | | | | | | | | | | | |
| Cylinder | EHST17D-YM9D | • | • | • | • | • | | | • | • | | | | • | | | | | | | | | | | | |
| | EHST20D-MED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | L |
| | EHST20D-VM2D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | L |
| | EHST20D-VM6D | • | • | • | • | • | • | • | • | • | • | • | • | • | H | H | | | | | | | | | | H |
| | EHST20D-YM9D EHST20D-YM9ED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | H |
| | EHST20D-TM9D | • | • | • | • | • | • | • | • | • | • | • | • | • | Н | Н | | | | | | | | | | H |
| | EHST30D-MED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | H |
| | EHST30D-VM6ED | • | • | • | • | • | • | • | • | • | • | • | • | • | Н | | | | | | | | | | | r |
| | EHST30D-YM9ED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | EHST30D-TM9ED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | EHST20C-MED | | | | | | | | | | | | | | • | • | | | • | • | • | | • | | | |
| | EHST20C-VM2D | | | | | L | | | L | | Ĺ | | | | • | • | | | • | • | • | | • | • | • | • |
| | EHST20C-VM6D | | | | | | | | | | | | | Ш | • | • | | | • | • | • | | • | • | • | • |
| | EHST20C-YM9D | | | | | | | | | | | | | | • | • | | | • | • | • | | • | • | • | • |
| | EHST20C-YM9ED | | | | | L | | | | | | L | | | • | • | | | • | • | • | L | • | • | • | • |
| | EHST20C-TM9D | | | | | | H | | | | | L | | H | • | • | | | • | • | • | | • | • | • | • |
| | EHST30C-MED | \vdash | | | | | H | | | | _ | L | H | H | • | • | | | • | • | • | | | | | H |
| | EHST30C-VM6ED | + | | | | | | | | | | | | H | - | • | | | • | • | • | | | | | H |
| | EHST30C-YM9ED EHST30C-TM9ED | + | | | | | | | | | | | | Н | | • | | | • | • | • | | | | | H |
| Reversible | ERST17D-VM2D | • | • | • | • | • | | | • | • | | \vdash | Н | • | _ | _ | | | _ | _ | _ | | | | | H |
| Cylinder | ERST17D-VM2BD | • | • | • | • | • | Н | | • | • | | \vdash | Н | • | Н | Н | \vdash | | | | \vdash | \vdash | | | \vdash | H |
| | ERST17D-VM6D | • | • | • | • | • | | | • | • | | | | • | | | | | | | | | | | | H |
| | ERST17D-VM6BD | • | • | • | • | • | | | • | • | | | | • | | | | | | | | | | | | T |
| | ERST17D-YM9BD | • | • | • | • | • | | | • | • | | | | • | | | | | | | | | | | | Г |
| | ERST20D-VM2D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | Г |
| | ERST20D-VM6D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | ERST20D-YM9D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | ERST30D-VM2ED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | L |
| | ERST30D-VM6ED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | ERST30D-YM9ED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | L |
| | ERST20C-VM2D | - | | | | | | | | | | | | | • | • | | | • | • | • | | | | | L |
| | ERST20C-VM6D | - | | | | | | | | | | | | | • | • | | | • | • | • | | | | | L |
| | ERST20C-YM9D | \vdash | | | | | | | | | _ | H | H | H | • | • | | | • | • | • | | | | | H |
| | ERST30C-VM2ED ERST30C-VM6ED | + | | | | H | H | | \vdash | \vdash | _ | H | Н | Н | • | • | \vdash | | • | • | • | | | | \vdash | ⊦ |
| | ERST30C-VM9ED | | | | | H | Н | | \vdash | \vdash | _ | H | Н | Н | • | • | \vdash | | • | • | • | | | | \vdash | H |
| Heating only | EHSD-MED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | _ | _ | - | | | | \vdash | H |
| Hydrobox | EHSD-VM2D | • | • | • | • | • | • | • | • | • | • | • | • | • | Н | Н | | | | | | | | | | H |
| | EHSD-VM6D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | T |
| | EHSD-YM9D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | Г | | | | Г |
| | EHSD-YM9ED | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | EHSD-TM9D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | EHSC-MED | | | | | | | | | | | | | | • | • | | | • | • | • | | • | | | |
| | EHSC-VM2D | | | | | | | | | | | | | | • | • | | | • | • | • | | • | • | • | • |
| | EHSC-VM6D | | | | | | | | | | | | | | • | • | | | • | • | • | | • | • | • | • |
| | EHSC-YM9D | | | | | | | | | | | | | | • | • | | | • | • | • | | • | • | • | • |
| | EHSC-YM9ED | | | | | _ | | | | _ | | _ | | H | • | • | | | • | • | • | | • | • | • | • |
| | EHSC-TM9D | | | | | | | | | | | | | | • | • | | | • | • | • | | • | • | • | • |
| | EHSE-MED EHSE-YM9ED | \vdash | | | | | H | _ | | | _ | H | H | H | H | H | • | • | _ | | | • | | | | ⊢ |
| Reversible | ERSD-MED | • | • | • | • | • | • | • | • | • | • | • | • | • | H | | - | • | _ | | | - | | | | H |
| Hydrobox | ERSD-WED | • | • | • | • | • | • | • | • | • | • | • | • | • | Н | \vdash | | | | | \vdash | | | | | \vdash |
| | ERSD-VM6D | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | \vdash | \vdash | \vdash | \vdash | | \vdash | | \vdash |
| | ERSD-YM9D | • | • | • | • | • | • | • | • | • | • | • | • | • | Н | Н | | | | | | | | | | H |
| | ERSC-MED | ŕ | ŕ | ŕ | Ť | ŕ | Ħ | É | ŕ | Ĺ | ŕ | ŕ | Ħ | H | • | • | | | • | • | • | \vdash | | \vdash | | |
| | ERSC-VM2D | | Г | Г | Г | | П | | | Г | | | | | • | • | | | • | • | • | Г | | Г | | |
| | ERSC-VM6D | | | | | | | | | | | | | | • | • | | | • | • | • | | | | | |
| | ERSC-YM9D | | | | | | | | | | | | | | • | • | | | • | • | • | | | | | Г |
| | ERSE-MED | | | L | Ĺ | Ĺ | | | Ĺ | Ĺ | Ĺ | | | | | | • | • | Ĺ | Ĺ | Ĺ | • | | Ĺ | Ĺ | Ĺ |
| | ERSE-YM9ED | 1 | 1 | 1 | | | | | | | | | | | | | • | • | | | | • | | | | |

Packaged indoor/outdoor unit

| Packaged indo combination | or/outdoor unit | | | F | 32 | |
|---------------------------|-----------------|-------------|-------------|---------------|----------------|-----------------|
| | | Г | Pov | wer | | ZUBADA |
| | | PUZ-WM50VHA | PUZ-WM60VAA | PUZ-WM85V/YAA | PUZ-WM112V/YAA | PUZ-HWM140V/YHA |
| Heating only | EHPT17X-VM2D | • | • | • | | |
| Cylinder | EHPT17X-VM6D | • | • | • | | |
| | EHPT17X-YM9D | • | • | • | | |
| | EHPT20X-MED | • | • | • | • | • |
| | EHPT20X-VM6D | • | • | • | • | • |
| | EHPT20X-YM9D | • | • | • | • | • |
| | EHPT20X-YM9ED | • | • | • | • | • |
| | EHPT20X-TM9D | • | • | • | • | • |
| | EHPT20X-MHEDW | • | • | • | • | • |
| | EHPT30X-MED | Г | | • | • | • |
| | EHPT30X-YM9ED | | | • | • | • |
| Reversible | ERPT17X-VM2D | • | • | • | | |
| Cylinder | ERPT20X-VM2D | • | • | • | • | • |
| | ERPT20X-MD | • | • | • | • | • |
| | ERPT20X-VM6D | • | • | • | • | • |
| | ERPT30X-VM2ED | Г | | • | • | • |
| | ERPT30X-VM6ED | | | • | • | • |
| Heating only | EHPX-VM2D | • | • | • | • | • |
| Hydrobox | EHPX-VM6D | • | • | • | • | • |
| | EHPX-YM9D | • | • | • | • | • |
| | EHPX-MED | • | • | • | • | • |
| | EHPX-YM9ED | • | • | • | • | • |
| Reversible | ERPX-MD | • | • | • | • | • |
| Hydrobox | ERPX-VM2D | • | • | • | • | • |
| | ERPX-VM6D | • | • | • | • | • |
| | ERPX-YM9D | • | • | • | • | • |

MELCloud (Wi-Fi Interface) for ecodan

MELCloud for Fast, Easy Remote Control and Monitoring of Your ecodan

MELCloud is a new Cloud-based solution for controlling ecodan either locally or remotely by computer, tablet or smartphone via the Internet. Setting up and remotely operating your ecodan heating system via MELCloud is simple and straight forward. All you need is wireless computer connectivity in your home or the building where the ecodan is installed and an Internet connection on your mobile or fixed terminal. To set up the system, the router and the ecodan WiFi interface must be paired, and this is done simply and quickly using the WPS button found on all mainstream routers.

You can control and check ecodan via MELCloud from virtually anywhere an Internet connection is available.

That means, thanks to MELCloud, you can use ecodan much more easily and conveniently.



Key Control and Monitoring Features

- 1 Turn system on/off
- 2 See status of each of your heating zones & adjust set points
- See the status of your hot water cylinder & boost remotely
- 4 Live weather feed from ecodan location

Holiday mode - Set system parameters while away Schedule timer - Set 7 day weekly schedule Frost protection - Set system to run at minimum temperature

Error status

5 Check energy usage report* *Additional metering hardware is required.



| | | | | For n | nedium-t | empe | rature | applicati | on | | | For low-temperature application | | | | | | | | | | | |
|--------------------------|--------------|--|---|--|---|--|--|---|--|------------------------------|-------------------------------|---|---------------------------------------|--|---|----------|--|----------|--|------------------------------|-------------------------------|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | |
| Outdoor unit | Indoor unit | Seasonal space heating energy efficiency class | Seasonal space heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Rated heat output under warmer climate condition | Seasonal space heating energy efficiency under warmer climate condition | Warmer heating energy efficiency under warmer climate conditions | Sound power level LWA indoor | Sound power level LWA outdoor | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | | Rated heat output under warmer climate condition | | Warmer heating energy efficiency under warmer climate conditions | Sound power level LWA indoor | Sound power level LWA outdoor | | |
| SUZ-SWM40VA | EHST17D-***D | ۸ | ۸. | kW 4.6 | % 129 | 148 | kW 4.6 | % 155 | % 167 | dB 41 | dB 58 | | Λ. | kW 5.1 | % 180 | % 148 | kW 5.1 | % 216 | % 167 | dB 41 | dB 58 | | |
| 302-3VIVI40VA | ERST17D-***D | A++ | A+ A+ | 4.6 | 132 | 148 | 4.6 | 160 | 167 | 41 | 58 | A+++ | A+ | 5.1 | 187 | 148 | 5.1 | 225 | 167 | 41 | 58 | | |
| | EHST20D-***D | A++ | A+ | 4.6 | 129 | 159 | 4.6 | 155 | 173 | 41 | 58 | A+++ | A+ | 5.1 | 180 | 159 | 5.1 | 216 | 173 | 41 | 58 | | |
| | ERST20D-***D | l . | | 4.6 | 132 | 159 | | 160 | 173 | 41 | | | | 5.1 | 187 | 159 | 5.1 | 225 | 173 | 41 | 58 | | |
| | | A++ | A+ | | | | 4.6 | | | | 58 | A+++ | Α+ | | | | | | | | | | |
| | EHST30D-***D | A++ | A+ | 4.6 | 129 | 128 | 4.6 | 155 | 149 | 41 | 58 | A+++ | A+ | 5.1 | 180 | 128 | 5.1 | 216 | 149 | 41 | 58 | | |
| | ERST30D-***D | A++ | A+ | 4.6 | 132 | 128 | 4.6 | 160 | 149 | 41 | 58 | A+++ | A+ | 5.1 | 187 | 128 | 5.1 | 225 | 149 | 41 | 58 | | |
| | EHSD-***D | A++ | _ | 4.6 | 129 | - | 4.6 | 155 | - | 41 | 58 | A+++ | _ | 5.1 | 180 | - | 5.1 | 216 | - | 41 | 58 | | |
| | ERSD-***D | A++ | - | 4.6 | 132 | - | 4.6 | 160 | - | 41 | 58 | A+++ | - | 5.1 | 187 | - | 5.1 | 225 | - | 41 | 58 | | |
| SUZ-SWM60VA | EHST17D-***D | A++ | A+ | 6.0 | 130 | 144 | 6.0 | 138 | 167 | 41 | 60 | A+++ | A+ | 6.6 | 181 | 144 | 6.6 | 192 | 167 | 41 | 60 | | |
| | ERST17D-***D | A++ | A+ | 6.0 | 133 | 144 | 6.0 | 142 | 167 | 41 | 60 | A+++ | A+ | 6.6 | 187 | 144 | 6.6 | 198 | 167 | 41 | 60 | | |
| | EHST20D-***D | A++ | A+ | 6.0 | 130 | 148 | 6.0 | 138 | 173 | 41 | 60 | A+++ | A+ | 6.6 | 181 | 148 | 6.6 | 192 | 173 | 41 | 60 | | |
| | ERST20D-***D | A++ | A+ | 6.0 | 133 | 148 | 6.0 | 142 | 173 | 41 | 60 | A+++ | A+ | 6.6 | 187 | 148 | 6.6 | 198 | 173 | 41 | 60 | | |
| | EHST30D-***D | A++ | A+ | 6.0 | 130 | 128 | 6.0 | 138 | 164 | 41 | 60 | A+++ | A+ | 6.6 | 181 | 128 | 6.6 | 192 | 164 | 41 | 60 | | |
| | ERST30D-***D | A++ | A+ | 6.0 | 133 | 128 | 6.0 | 142 | 164 | 41 | 60 | A+++ | A+ | 6.6 | 187 | 128 | 6.6 | 198 | 164 | 41 | 60 | | |
| | EHSD-***D | A++ | - | 6.0 | 130 | - | 6.0 | 138 | - | 41 | 60 | A+++ | - | 6.6 | 181 | - | 6.6 | 192 | - | 41 | 60 | | |
| | ERSD-***D | A++ | - | 6.0 | 133 | - | 6.0 | 142 | - | 41 | 60 | A+++ | - | 6.6 | 187 | - | 6.6 | 198 | - | 41 | 60 | | |
| SUZ-SWM80VA | EHST17D-***D | A++ | A+ | 7.1 | 131 | 144 | 7.1 | 135 | 167 | 41 | 62 | A+++ | A+ | 7.1 | 182 | 144 | 7.1 | 186 | 167 | 41 | 62 | | |
| | ERST17D-***D | A++ | A+ | 7.1 | 133 | 144 | 7.1 | 138 | 167 | 41 | 62 | A+++ | A+ | 7.1 | 187 | 144 | 7.1 | 191 | 167 | 41 | 62 | | |
| | EHST20D-***D | A++ | A+ | 7.1 | 131 | 148 | 7.1 | 135 | 173 | 41 | 62 | A+++ | A+ | 7.1 | 182 | 148 | 7.1 | 186 | 173 | 41 | 62 | | |
| | ERST20D-***D | A++ | A+ | 7.1 | 133 | 148 | 7.1 | 138 | 173 | 41 | 62 | A+++ | A+ | 7.1 | 187 | 148 | 7.1 | 191 | 173 | 41 | 62 | | |
| | EHST30D-***D | A++ | A+ | 7.1 | 131 | 128 | 7.1 | 135 | 164 | 41 | 62 | A+++ | A+ | 7.1 | 182 | 128 | 7.1 | 186 | 164 | 41 | 62 | | |
| | ERST30D-***D | A++ | A+ | 7.1 | 133 | 128 | 7.1 | 138 | 164 | 41 | 62 | A+++ | A+ | 7.1 | 187 | 128 | 7.1 | 191 | 164 | 41 | 62 | | |
| | EHSD-***D | A++ | - | 7.1 | 131 | _ | 7.1 | 135 | _ | 41 | 62 | A+++ | _ | 7.1 | 182 | - | 7.1 | 186 | - | 41 | 62 | | |
| | ERSD-***D | A++ | _ | 7.1 | 133 | _ | 7.1 | 138 | _ | 41 | 62 | A+++ | _ | 7.1 | 187 | _ | 7.1 | 191 | _ | 41 | 62 | | |
| PUD-SWM80V/YAA(-BS) | E*ST17D-***D | A++ | A+ | 8.0 | 131/130 | 136 | 8.0 | 161/159 | 154 | 41 | 56 | A+++ | A+ | 8.0 | 178/176 | 136 | 8.0 | 218/215 | 154 | 41 | 56 | | |
| | E*ST20D-***D | A++ | A+ | 8.0 | 131/130 | 148 | 8.0 | 161/159 | | | 56 | A+++ | A+ | 8.0 | 178/176 | 148 | 8.0 | 218/215 | 162 | 41 | 56 | | |
| | E*ST30D-***D | A++ | A | 8.0 | 131/130 | 121 | 8.0 | 161/159 | | | 56 | A+++ | Α | 8.0 | 178/176 | _ | 8.0 | 218/215 | | 41 | 56 | | |
| | E*SD-***D | A++ | _ | 8.0 | 131/130 | _ | 8.0 | 161/159 | _ | 41 | 56 | A+++ | _ | 8.0 | 178/176 | _ | 8.0 | 218/215 | _ | 41 | 56 | | |
| PUD-SWM100V/YAA(-BS) | E*ST20D-***D | A++ | A+ | | 131/130 | 148 | 10.0 | 152/151 | | | 59 | A+++ | A+ | 10.0 | 178/177 | | | 221/218 | 162 | 41 | 59 | | |
| | E*ST30D-***D | A++ | A | 10.0 | 131/130 | 121 | 10.0 | 152/151 | _ | | 59 | A+++ | A | 10.0 | | 121 | | 221/218 | | 41 | 59 | | |
| | E*SD-***D | A++ | _ | 10.0 | 131/130 | | 10.0 | 152/151 | _ | 41 | 59 | A+++ | _ | 10.0 | 178/177 | _ | _ | 221/218 | _ | 41 | 59 | | |
| PUD-SWM120V/YAA(-BS) | E*ST20D-***D | A++ | A+ | | 129/128 | 148 | 12.0 | 150/149 | | | 60 | A+++ | A+ | 12.0 | 177/176 | _ | _ | 217/215 | 162 | | 60 | | |
| 1 05-04/4/120V/ IAA(-03) | E*ST30D-***D | A++ | A | 12.0 | 129/128 | 121 | 12.0 | 150/149 | 145 | | | | A | 12.0 | 177/176 | | _ | 217/215 | | 41 | 60 | | |
| | | - | | | | | | | 140 | | 60 | A+++ | А | | | | | | 140 | | | | |
| PLID CHWWOOVAAA BC | E*SD-***D | A++ | _ | | 129/128 | 126 | 12.0 | 150/149 | 154 | 41 | 60 | A+++ | _ | 12.0 | 177/176 | 126 | _ | 217/215 | 15.4 | 41 | 60 | | |
| PUD-SHWM80V/YAA(-BS) | E*ST17D-***D | A++ | A+ | 8.0 | 135/134 | 136 | 8.0 | 166/164 | | | 56 | A+++ | Α+ | 8.0 | 181/179 | _ | 8.0 | 225/222 | | 41 | 56 | | |
| | E*ST20D-***D | A++ | A+ | 8.0 | 135/134 | 148 | 8.0 | 166/164 | | | 56 | A+++ | A+ | 8.0 | | _ | 8.0 | 225/222 | | 41 | 56 | | |
| | E*ST30D-***D | A++ | Α | 8.0 | 135/134 | 121 | 8.0 | 166/164 | 145 | 41 | 56 | A+++ | Α | 8.0 | 181/179 | 121 | 8.0 | 225/222 | 145 | 41 | 56 | | |
| | E*SD-***D | A++ | | 8.0 | 135/134 | _ | 8.0 | 166/164 | _ | 41 | 56 | A+++ | - | 8.0 | 181/179 | _ | 8.0 | 225/222 | _ | 41 | 56 | | |

Note: E**T17/20*-***D use "Load profile L" E**T30*-***D use "Load profile XL"

| | | | | For n | nedium-t | empe | rature | applicati | on | | | | | For | low-tem | pera | ture a | pplicatio | n | | |
|-----------------------------|--------------|--|---------------------------------------|--|---|--|--|---|--|------------------------------|-------------------------------|---|---------------------------------------|--|---|--|--|---|--|--|--------|
| Outdoor unit | Indoor unit | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Rated heat output under warmer climate condition | Seasonal space heating energy efficiency under warmer climate condition | Warmer heating energy efficiency under warmer climate conditions | Sound power level LWA indoor | Sound power level LWA outdoor | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Rated heat output under warmer climate condition | Seasonal space heating energy efficiency under warmer climate condition | Warmer heating energy efficiency under warmer climate conditions | wer le | d WALL |
| PUD-SHWM100V/YAA(-BS) | E*ST20D-***D | A++ | A+ | 10.0 | 136/135 | 148 | 10.0 | 163/161 | 162 | 41 | 59 | A+++ | A+ | 10.0 | 180/178 | 148 | 10.0 | 235/232 | 162 | | 5 |
| | E*ST30D-***D | A++ | Α | 10.0 | 136/135 | 121 | 10.0 | 163/161 | 145 | 41 | 59 | A+++ | Α | 10.0 | 180/178 | 121 | 10.0 | 235/232 | 145 | 41 | 5 |
| | E*SD-***D | A++ | _ | 10.0 | 136/135 | _ | 10.0 | 163/161 | _ | 41 | 59 | A+++ | _ | 10.0 | 180/178 | - | 10.0 | 235/232 | - | 41 | 5 |
| PUD-SHWM120V/YAA(-BS) | E*ST20D-***D | A++ | A+ | 12.0 | 135/134 | 148 | 12.0 | 159/158 | 162 | 41 | 60 | A+++ | A+ | 12.0 | 179/177 | 148 | 12.0 | 231/229 | 162 | | 6 |
| | E*ST30D-***D | A++ | Α | 12.0 | 135/134 | 121 | 12.0 | 159/158 | 145 | 41 | 60 | A+++ | Α | 12.0 | 179/177 | 121 | 12.0 | 231/229 | 145 | 41 | 6 |
| | E*SD-***D | A++ | _ | 12.0 | 135/134 | - | 12.0 | 159/158 | - | 41 | 60 | A+++ | _ | 12.0 | 179/177 | _ | 12.0 | 231/229 | - | 41 | 6 |
| PUD-SHWM140V/YAA(-BS) | E*ST20D-***D | A++ | A+ | 14.0 | 134/134 | 145 | 14.0 | 161/139 | 161 | 41 | 62 | A+++ | _ A+ | 14.0 | 179/177 | 145 | 14.0 | 224/223 | | 41 | 6 |
| - CD-OHWWH40V/IAA(-DO) | E*ST30D-***D | A++ | A | 14.0 | 134/134 | 121 | 14.0 | 161/139 | 139 | 41 | 62 | A+++ | A+ | 14.0 | 179/177 | 121 | 14.0 | 224/223 | 139 | 41 | 6 |
| | E*SD-***D | | - - | 14.0 | 134/134 | - | 14.0 | 161/139 | - | 41 | 62 | \vdash | - | 14.0 | 179/177 | 121 | 14.0 | 224/223 | 139 | 41 | 6: |
| DI III 7 OM/751/0/4 4 / DO) | | A++ | | | | | | | | | | A+++ | | | | | | | | - | + |
| PUHZ-SW75V/YAA(-BS) | EHST17D-***D | A++ | A+ | 7.1 | 129/128 | 136 | 7.1 | 155/153 | 141 | 41 | 58 | A++ | A+ | 7.2 | 162/160 | 136 | 7.1 | 219/215 | | 41 | 5 |
| | ERST17D-***D | A++ | A+ | 7.1 | 132/132 | 136 | 7.1 | 158 | 141 | 41 | 58 | A++ | A+ | 7.2 | 166/165 | 136 | 7.1 | 226/225 | | 41 | 5 |
| _ | EHST20D-***D | A++ | A+ | 7.1 | 129/128 | 145 | 7.1 | 155/153 | 161 | 41 | 58 | A++ | A+ | 7.2 | 162/160 | 145 | 7.1 | 219/215 | 161 | 41 | 5 |
| | ERST20D-***D | A++ | A+ | 7.1 | 132/132 | 145 | 7.1 | 158 | 161 | 41 | 58 | A++ | A+ | 7.2 | 166/165 | 145 | 7.1 | 226/225 | 161 | 41 | 58 |
| - | EHST30D-***D | A++ | Α | 7.1 | 129/128 | 120 | 7.1 | 155/153 | 127 | 41 | 58 | A++ | Α | 7.2 | 162/160 | 120 | 7.1 | 219/215 | 127 | 41 | 58 |
| | ERST30D-***D | A++ | Α | 7.1 | 132/132 | 120 | 7.1 | 158 | 127 | 41 | 58 | A++ | Α | 7.2 | 166/165 | 120 | 7.1 | 226/225 | 127 | 41 | 5 |
| | EHSD-***D | A++ | - | 7.1 | 129/128 | - | 7.1 | 155/153 | - | 41 | 58 | A++ | - | 7.2 | 162/160 | - | 7.1 | 219/215 | - | 41 | 58 |
| | ERSD-***D | A++ | - | 7.1 | 132/132 | - | 7.1 | 158 | - | 41 | 58 | A++ | - | 7.2 | 166/165 | - | 7.1 | 226/225 | - | 41 | 58 |
| PUHZ-SW100V/YAA(-BS) | EHST20C-***D | A++ | A+ | 10.0 | 130/129 | 145 | 10.0 | 180/178 | 161 | 40 | 60 | A++ | A+ | 10.6 | 167/165 | 145 | 10.6 | 255/251 | 161 | 40 | 6 |
| | ERST20C-***D | A++ | A+ | 10.0 | 132/132 | 145 | 10.0 | 183 | 161 | 40 | 60 | A++ | A+ | 10.6 | 170/169 | 145 | 10.6 | 261/260 | 161 | 40 | 6 |
| | EHST30C-***D | A++ | Α | 10.0 | 130/129 | 120 | 10.0 | 180/178 | 127 | 40 | 60 | A++ | Α | 10.6 | 167/165 | 120 | 10.6 | 255/251 | 127 | 40 | 6 |
| | ERST30C-***D | A++ | Α | 10.0 | 132/132 | 120 | 10.0 | 183 | 127 | 40 | 60 | A++ | Α | 10.6 | 170/169 | 120 | 10.6 | 261/260 | 127 | 40 | 6 |
| | EHSC-***D | A++ | _ | 10.0 | 130/129 | _ | 10.0 | 180/178 | _ | 40 | 60 | A++ | _ | 10.6 | 167/165 | - | 10.6 | 255/251 | - | 40 | 6 |
| | ERSC-***D | A++ | _ | 10.0 | 132/132 | _ | 10.0 | 183 | _ | 40 | 60 | A++ | _ | 10.6 | 170/169 | - | 10.6 | 261/260 | - | 40 | 6 |
| PUHZ-SW120V/YHA(-BS) | EHST20C-***D | A++ | A+ | | 125/125 | 138 | 12.1 | 157 | 160 | 40 | 72 | A++ | A+ | | 162/162 | 138 | | 222 | 160 | | 7: |
| | ERST20C-***D | A++ | A+ | | 127/127 | 138 | 12.1 | 159 | 160 | | 72 | A++ | A+ | | 164/164 | | | 226 | 160 | | 7: |
| | EHST30C-***D | | A | | 125/125 | 118 | 12.1 | 157 | 126 | | 72 | | | | 162/162 | | | 222 | 126 | - | 7: |
| | | A++ | | | | | | | | | | A++ | A | | | | | | | | + |
| | ERST30C-***D | A++ | Α | | 127/127 | 118 | 12.1 | 159 | 126 | | 72 | A++ | Α | | 164/164 | 118 | | 226 | 126 | - | 7: |
| | EHSC-***D | A++ | - | | 125/125 | - | 12.1 | 157 | _ | 40 | 72 | A++ | - | 12.9 | 162/162 | - | 12.9 | 222 | - | 40 | 7: |
| | ERSC-***D | A++ | - | 12.1 | 127/127 | - | 12.1 | 159 | - | 40 | 72 | A++ | - | 12.9 | 164/164 | - | 12.9 | 226 | - | 40 | 7: |
| PUHZ-SW160YKA(-BS) | EHSE-***D | A++ | - | 13.5 | 125 | - | 13.5 | 151 | - | 45 | 78 | A++ | - | 15.3 | 151 | - | 15.3 | 212 | - | 45 | 7 |
| | ERSE-***D | A++ | - | 13.5 | 126 | - | 13.5 | 152 | - | 45 | 78 | A++ | - | 15.3 | 152 | - | 15.3 | 215 | - | 45 | 7 |
| PUHZ-SW200YKA(-BS) | EHSE-***D | A++ | - | 15.5 | 127 | - | 15.5 | 147 | - | 45 | 78 | A++ | - | 17.3 | 147 | - | 17.3 | 209 | - | 45 | 7 |
| | ERSE-***D | A++ | - | 15.5 | 129 | - | 15.5 | 148 | - | 45 | 78 | A++ | - | 17.3 | 148 | - | 17.3 | 211 | - | 45 | 7 |
| PUHZ-SHW80V/YAA(-BS) | EHST20C-***D | A++ | A+ | 9.0 | 133/132 | 145 | 9.0 | 157/155 | 161 | 40 | 59 | A++ | A+ | 9.6 | 169/167 | 145 | 9.6 | 217/213 | 161 | 40 | 5 |
| | ERST20C-***D | A++ | A+ | 9.0 | 135/134 | 145 | 9.0 | 160/159 | 161 | 40 | 59 | A++ | A+ | 9.6 | 172/172 | 145 | 9.6 | 222/221 | 161 | 40 | 5 |
| | EHST30C-***D | A++ | Α | 9.0 | 133/132 | 120 | 9.0 | 157/155 | 127 | 40 | 59 | A++ | Α | 9.6 | 169/167 | 120 | 9.6 | 217/213 | 127 | 40 | 5 |
| | ERST30C-***D | A++ | Α | 9.0 | 135/134 | 120 | 9.0 | 160/159 | 127 | 40 | 59 | A++ | Α | 9.6 | 172/172 | 120 | 9.6 | 222/221 | 127 | 40 | 5 |
| | EHSC-***D | A++ | _ | 9.0 | 133/132 | - | 9.0 | 157/155 | _ | 40 | 59 | A++ | _ | 9.6 | 169/167 | - | 9.6 | 217/213 | - | 40 | 5 |
| | ERSC-***D | A++ | _ | 9.0 | 135/134 | _ | 9.0 | 160/159 | _ | 40 | 59 | A++ | _ | 9.6 | 172/172 | - | 9.6 | 222/221 | - | 40 | 5 |
| PUHZ-SHW112V/YAA(-BS) | EHST20C-***D | A++ | A+ | 12.7 | 135/135 | 145 | 11.0 | 158/157 | 161 | 40 | 60 | A++ | A+ | 13.9 | 171/169 | | 11.0 | 219/216 | | - | 6 |
| . SIL SINVIIZV/IAA(-03) | ERST20C-***D | _ | | 12.7 | 137/137 | 145 | 11.0 | 161 | 161 | 40 | | | | 13.9 | | | 11.0 | 223 | 161 | | 6 |
| | | A++ | A+ | | | | _ | | | | 60 | A++ | A+ | | 173/173 | | _ | | | | + |
| | EHST30C-***D | A++ | A | 12.7 | 135/135 | 120 | 11.0 | 158/157 | 127 | 40 | 60 | A++ | A | | 171/169 | | 11.0 | 219/216 | | 40 | 6 |
| | ERST30C-***D | A++ | Α | 12.7 | 137/137 | 120 | 11.0 | 161 | 127 | 40 | 60 | A++ | Α | 13.9 | 173/173 | 120 | 11.0 | 223 | 127 | 40 | 60 |
| | EHSC-***D | A++ | - | 12.7 | 135/135 | - | 11.0 | 158/157 | - | 40 | 60 | A++ | - | 13.9 | 171/169 | - | 11.0 | 219/216 | - | 40 | 6 |
| | ERSC-***D | A++ | _ | 127 | 137/137 | _ | 11.0 | 161 | _ | 40 | 60 | A++ | _ | 13.9 | 173/173 | _ | 11.0 | 223 | _ | 40 | 6 |

All A⁺⁺ or Above!!

| | | | | Forr | nedium-1 | tempe | erature | e applica | tion | | | | | For | low-tem | pera | ture a | pplication | n | | | | | | |
|----------------------------|-----------------|--|---------------------------------------|--|---|--|--|---|--|------------------------------|-------------------------------|---|---------------------------------------|--|---|--|--|---|--|------------------------------|-------------------------------|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outdoor unit | Indoor unit | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Rated heat output under warmer climate condition | Seasonal space heating energy efficiency under warmer climate condition | Warmer heating energy efficiency under warmer climate conditions | Sound power level LWA indoor | Sound power level LWA outdoor | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Rated heat output under warmer climate condition | Seasonal space heating energy efficiency under warmer climate condition | Warmer heating energy efficiency under warmer climate conditions | Sound power level LWA indoor | Sound power level LWA outdoor | | | | |
| PUHZ-SHW140YHA | EHST20C-***D | A++ | A+ | 15.8 | 127 | 138 | 14.0 | 153 | 160 | 40 | 70 | A++ | A+ | 17.0 | 163 | 138 | 15.5 | 209 | 160 | 40 | 70 | | | | |
| | ERST20C-***D | A++ | A+ | 15.8 | 128 | 138 | 14.0 | 154 | 160 | 40 | 70 | A++ | A+ | 17.0 | 165 | 138 | 15.5 | 211 | 160 | 40 | 70 | | | | |
| | EHST30C-***D | A++ | A | 15.8 | 127 | 118 | 14.0 | 153 | 126 | 40 | 70 | A++ | A | 17.0 | 163 | 118 | 15.5 | 209 | 126 | 40 | 70 | | | | |
| | ERST30C-***D | A++ | A | 15.8 | 128 | 118 | 14.0 | 154 | 126 | 40 | 70 | A++ | A | 17.0 | 165 | 118 | 15.5 | 211 | 126 | 40 | 70 | | | | |
| | EHSC-***D | A++ | - | 15.8 | 127 | - | 14.0 | 153 | - | 40 | 70 | A++ | _ | 17.0 | 163 | _ | 15.5 | 209 | _ | 40 | 70 | | | | |
| | ERSC-***D | A++ | - | 15.8 | 128 | - | 14.0 | 154 | _ | 40 | 70 | A++ | _ | 17.0 | 165 | _ | 15.5 | 211 | _ | 40 | 70 | | | | |
| PUHZ-SHW230YKA2 | EHSE-***D | A++ | _ | 23.0 | 127 | _ | 22.8 | 149 | - | 45 | 75 | A++ | _ | 25.0 | 164 | _ | 23.0 | 199 | _ | 45 | 75 | | | | |
| | ERSE-***D | A++ | - | 23.0 | 128 | _ | 22.8 | 150 | - | 45 | 75 | A++ | _ | 25.0 | 165 | _ | 23.0 | 202 | _ | 45 | 75 | | | | |
| PUZ-WM50VHA(-BS) | EHPT17X-***D(W) | A++ | A+ | 5.0 | 129 | 120 | 5.0 | 157 | 135 | 40 | 61 | A+++ | A+ | 5.0 | 183 | 120 | 5.0 | 226 | 135 | 40 | 61 | | | | |
| 1 02 11110011111 (1 20) | ERPT17X-***D(W) | A++ | A+ | 5.0 | 133 | 120 | 5.0 | 162 | 135 | 40 | 61 | A+++ | A+ | 5.0 | 190 | 120 | 5.0 | 237 | 135 | 40 | 61 | | | | |
| | EHPT20X-***D(W) | A++ | A+ | 5.0 | 129 | 135 | 5.0 | 157 | 154 | 40 | 61 | A+++ | A+ | 5.0 | 183 | 135 | 5.0 | 226 | 154 | 40 | 61 | | | | |
| | ERPT20X-***D(W) | A++ | A+ | 5.0 | 133 | 135 | 5.0 | 162 | 154 | 40 | 61 | A+++ | A+ | 5.0 | 190 | 135 | 5.0 | 237 | 154 | 40 | 61 | | | | |
| - | EHPX-***D | A++ | - | 5.0 | 129 | - | 5.0 | 157 | - | 40 | 61 | A+++ | _ | 5.0 | 183 | - | 5.0 | 226 | - | 40 | 61 | | | | |
| | ERPX-***D | A++ | _ | 5.0 | 133 | _ | 5.0 | 162 | _ | 40 | 61 | A+++ | _ | 5.0 | 190 | _ | 5.0 | 237 | _ | 40 | 61 | | | | |
| PUZ-WM85V/YAA(-BS) | EHPT17X-***D(W) | A++ | A+ | 8.5 | 139/138 | 120 | 8.5 | 156/155 | 135 | 40 | 58 | A+++ | A+ | 8.5 | 193/190 | 120 | 8.5 | 227/224 | 135 | 40 | 58 | | | | |
| 1 02-WW05W/1AA(-B5) | ERPT17X-***D(W) | A++ | A+ | 8.5 | 141/141 | 120 | 8.5 | 159 | 135 | 40 | 58 | A+++ | A+ | 8.5 | 197/197 | 120 | 8.5 | 234 | 135 | 40 | 58 | | | | |
| | EHPT20X-***D(W) | A++ | A+ | 8.5 | 139/138 | 145 | 8.5 | 156/155 | 161 | 40 | 58 | A+++ | A+ | 8.5 | 193/190 | 145 | 8.5 | 227/224 | 161 | 40 | 58 | | | | |
| | ERPT20X-***D(W) | A++ | A+ | 8.5 | 141/141 | 145 | 8.5 | 159 | 161 | 40 | 58 | A+++ | A+ | 8.5 | 197/197 | 145 | 8.5 | 234 | 161 | 40 | 58 | | | | |
| | EHPT30X-***D(W) | A++ | A | 8.5 | 139/138 | 120 | 8.5 | 156/155 | 135 | 40 | 58 | A+++ | A | 8.5 | 193/190 | 120 | 8.5 | 227/224 | 135 | 40 | 58 | | | | |
| | ERPT30X-***D(W) | A++ | A | 8.5 | 141/141 | 120 | 8.5 | 159 | 135 | 40 | 58 | A+++ | A | 8.5 | 197/197 | 120 | 8.5 | 234 | 135 | 40 | 58 | | | | |
| | EHPX-***D | A++ | _ | 8.5 | 139/138 | _ | 8.5 | 156/155 | - | 40 | 58 | A+++ | _ | 8.5 | 193/190 | - | 8.5 | 227/224 | - | 40 | 58 | | | | |
| | ERPX-***D | A++ | | 8.5 | 141/141 | | 8.5 | 159 | | 40 | 58 | A+++ | | 8.5 | 197/197 | | 8.5 | 234 | | 40 | 58 | | | | |
| PUZ-WM112V/YAA(-BS) | EHPT20X-***D(W) | A++ | A+ | | 134/133 | 148 | 10.0 | 152/150 | 161 | 40 | 60 | A+++ | A+ | 10.0 | 191/189 | 1/10 | 10.0 | 215/213 | 161 | 40 | 60 | | | | |
| FUZ-WWITIZV/TAA(-B3) | ERPT20X-***D(W) | | | 10.0 | 136/136 | 148 | | | 161 | | | | | 10.0 | 195/195 | 148 | 10.0 | | | | - | | | | |
| | | A++ | A+ | | | | 10.0 | 154 152/150 | | 40 | 60 | A+++ | A+ | | 191/189 | | 10.0 | 220 | 161 | 40 | 60 | | | | |
| | EHPT30X-***D(W) | A++ | Α | - | 134/133 | | 10.0 | | 135 | 40 | 60 | A+++ | A | 10.0 | | 120 | | | | 40 | 60 | | | | |
| | EHPX-***D | A++ | A | | 136/136 | 120 | 10.0 | 154 | 135 | 40 | 60 | A+++ | Α | | 195/195 | 120 | 10.0 | 220 | 135 | 40 | 60 | | | | |
| | ERPX-***D | A++ | _ | 10.0 | 134/133 | _ | 10.0 | 152/150 | - | 40 | 60 | A+++ | _ | 10.0 | 195/195 | _ | 10.0 | 215/213 | _ | 40 | 60 | | | | |
| DUZ UNA/MA AON/O/UA / DCN | | A++ | _ | | 136/136 | 120 | 10.0 | 154 160/159 | 150 | 40 | 60 | A+++ | Α. | 10.0 | | 120 | | | 150 | 40 | 60 | | | | |
| PUZ-HWM140V/YHA(-BS) | EHPT20X-***D(W) | A++ | A+ | | 132/131 | | 14.0 | | | 40 | 67 | A+++ | A+ | 14.0 | | _ | 14.0 | 227/225 | | 40 | 67 | | | | |
| | ERPT20X-***D(W) | A++ | A+ | | 133/133 | 130 | 14.0 | 162 | 152 | 40 | 67 | A+++ | A+ | 14.0 | | 130 | 14.0 | | 152 | 40 | 67 | | | | |
| | EHPT30X-***D(W) | A++ | Α | 14.0 | 132/131 | 118 | 14.0 | 160/159 | 125 | 40 | 67 | A+++ | A | 14.0 | 176/175 | _ | 14.0 | 227/225 | | 40 | 67 | | | | |
| | ERPT30X-***D(W) | A++ | Α | 14.0 | | 118 | 14.0 | 162 | 125 | 40 | 67 | A+++ | Α | 14.0 | 178/177 | 118 | 14.0 | 232/231 | 125 | 40 | 67 | | | | |
| | EHPX-***D | A++ | - | | 132/131 | - | 14.0 | 160/159 | - | 40 | 67 | A+++ | - | 14.0 | 176/175 | - | 14.0 | 227/225 | - | 40 | 67 | | | | |
| DIJUZ EDDZAVIJAO | ERPX-***D | A++ | - | 14.0 | 133/133 | 120 | 14.0 | 162 | 150 | 40 | 67 | A+++ | - | 14.0 | 178/177 | 100 | 14.0 | 232/231 | 150 | 40 | 67 | | | | |
| PUHZ-FRP71VHA2 | EHST20C-***D | A+ | A+ | 7.5 | 121 | 138 | 7.5 | 150 | 156 | 40 | 68 | A++ | A+ | 7.5 | 163 | 138 | 7.5 | 226 | 156 | 40 | 68 | | | | |
| DUMAN/Dates and a second | EHSC-***D | A+ | - | 7.5 | 121 | - | 7.5 | 150 | - | 40 | 68 | A++ | - | 7.5 | 163 | - | 7.5 | 226 | - | 40 | 68 | | | | |
| PUMY-P112VKM5/YKM(E)4(-BS) | EHST20C-***D | A+ | Α | 11.2 | 121/121 | 106 | 10.0 | 139 | 119 | 40 | 69 | A++ | Α | 11.2 | 168/168 | 106 | 11.2 | 207 | 119 | 40 | 69 | | | | |
| | EHSC-***D | A+ | - | 11.2 | 121/121 | - | 10.0 | 139 | - | 40 | 69 | A++ | - | 11.2 | 168/168 | - | 11.2 | 207 | - | 40 | 69 | | | | |
| PUMY-P125VKM5/YKM(E)4(-BS) | | A+ | Α | | 121/121 | 106 | 10.0 | 139 | 119 | 40 | 69 | A++ | Α | 11.2 | 168/168 | 106 | 11.2 | 207 | 119 | 40 | 69 | | | | |
| | EHSC-***D | A+ | - | 11.2 | 121/121 | - | 10.0 | 139 | - | 40 | 69 | A++ | - | 11.2 | 168/168 | - | 11.2 | 207 | - | 40 | 69 | | | | |
| PUMY-P140VKM5/YKM(E)4(-BS) | | A+ | Α | 11.2 | 121/121 | 106 | 10.0 | 139 | 119 | 40 | 69 | A++ | Α | 11.2 | 168/168 | 106 | 11.2 | 207 | 119 | 40 | 69 | | | | |
| | EHSC-***D | A+ | I _ | 11.2 | 121/121 | I | 10.0 | 139 | - | 40 | 69 | A++ | _ | 11 2 | 168/168 | l – | 11.2 | 207 | _ | 40 | 69 | | | | |

