



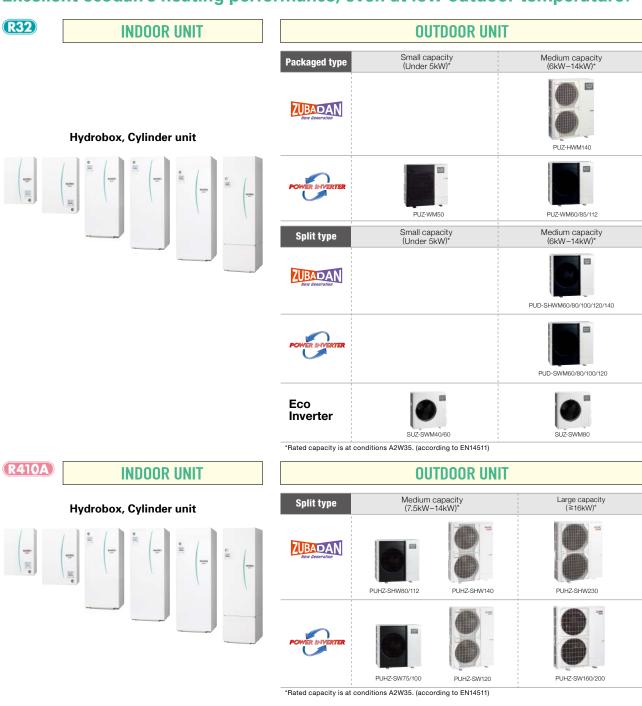






SELECTION Choose the series that best matches the building layout.

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



Other ATW-related system	Mr.SLIM+	PUMY + ecodan	ecodan geodan
	R410A	R410A	R32
	(A)		
	PUHZ-FRP71	PUMY-P112/125/140	EHGT17D-YM9ED

New Eco-design Directive

What is the ErP Directive?

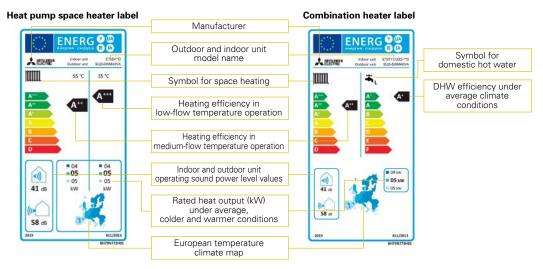
The Eco-design Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum 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?

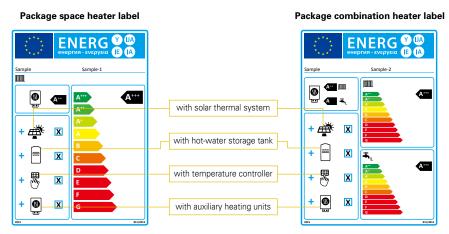
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from A^{+++} to G.

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.



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

New R32 Eco Inverter Line-up

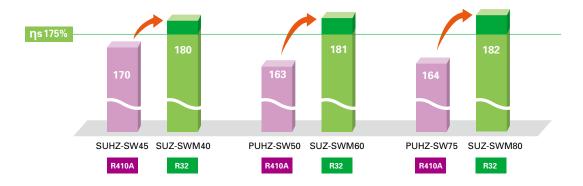
Energy Efficient and Environmentally Friendly Heating

- 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.

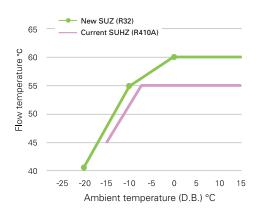


*Compared SUZ-SWM40/60/80VA with SUHZ-SW45VA/PUHZ-SW50VKA/PUHZ-SW75VHA

*Rated condition (According to EN12102)

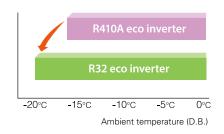
60°C Flow Temperature

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

CR410A vs R32> CO2 equivalent emission t-CO2 eq CO2 equivalent emission less than 1/3* depending On the model! 2 Model name sW45VA SWM40V Refrigerant amount 1.3kg 1.2kg GWP (R410A) (R32) CO2 eq 2.714 0.810

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

Dedicated Heat Pump for Residence

reddot award 2018

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.

1,020mm 480mm 1,050mm

High Performance

New Compressor

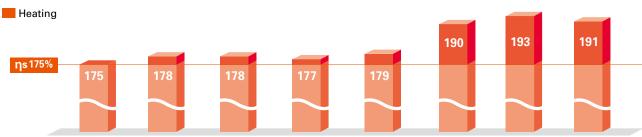


- Compact
- High performance
- Flash injection*
- *ZUBADAN (SHWM) only



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

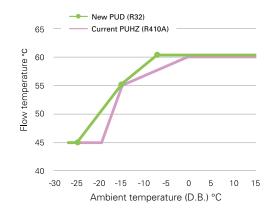
All models have achieved the "RANK A+++" for SCOP at low temperature.



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

<R410A vs R32> CO2 equivalent emission t-CO2 eq CO₂ equivalent emission less than 1/3-1/6 depending on the model! PUHZ-PUZ-PUD W112VAA WM112VAA SWM120VAA

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	

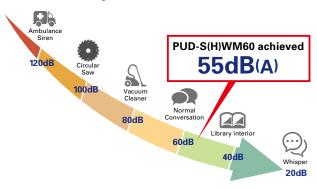
^{*}Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value

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.



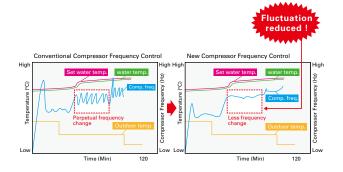
*Comparison between prior PUHZ-SHW-AA model and new PUD-S(H)WM-AA model.

Maximum number of operational hours at our Company's laboratory (external 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.



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)

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.



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.

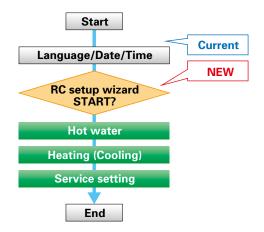
Easy Adjustment

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

26 Feb 2019 10:00								
	THW1	THW2	THW5	Flow				
10:00 🔆	41°C	38 °C	54°C	20L				
9:55 -×	38 °C	38°C	54°C	20L				
9:50 - 🔆	48°C	48°C	54°C	20L				
9:45 끏	60°C	56°C	54°C	15L				
9:40 끏	59°C	55°C	52°C	15L				
i		 		(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), ηwh [%] 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

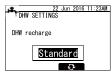


	170L	170L 200L	
	ղwh [%]	ղwh [%]	ղwh [%]
Conventional	-	96~104	-
New	120~148	135~159	118~128
Load Profile	L	L	XL
DHW Rank	A+	A+	A/A+

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 accomodate 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

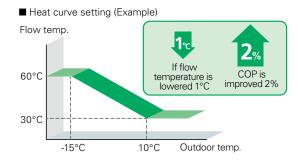
Maximise Energy Savings While Retaining Comfort at All Times

Settings can be performed using an SD card.

*SD logo is a trademark of SD-3C, LLC

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.



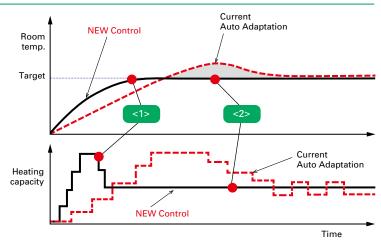
Auto Adaptation Improvement

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.

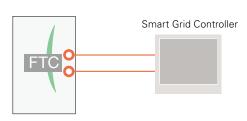


- <1> Fast heating with improved accuracy in learning building heat load
- <2> Energy saving by avoiding over heating and capacity fluctuation with better control response, i.e. control interval and resolution

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.

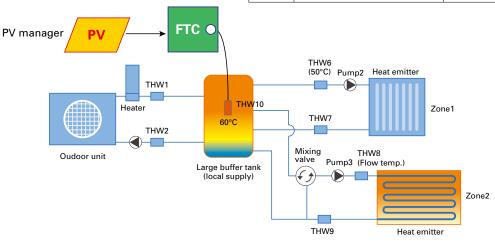
Improved Smart Grid Ready

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

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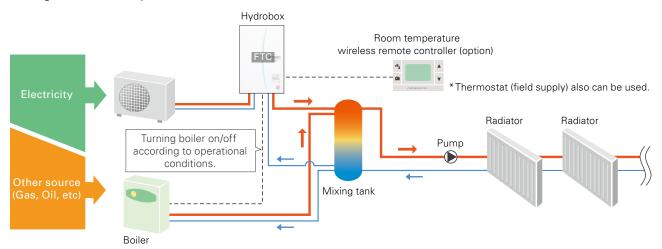
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

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.

*Please see below "Heat source switchover".

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

- $\ensuremath{\textcircled{1}}$ 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.

ettings can b an SD card.

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.

■ Two temperature zones Wireless remote controller 2 zone kit with locally supplied components as thermistor 40°C Hydrobox Pump Mixing control FTC Mixing valve Pump Mixing tank/header Underfloor heating

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

Multiple Unit Control

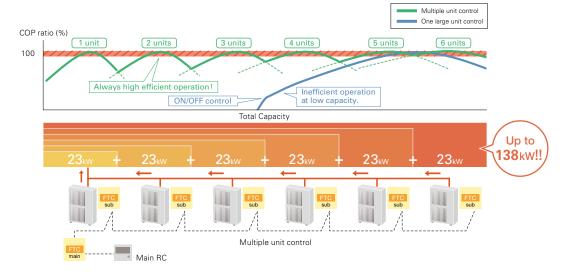
Connect up to 6 Units - Automatic Control of Multiple Units for Bigger Capacity and Better Efficiency

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



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)
 - Two separate schedules
 - Summer time setting
 - Built-in room temperature sensors

 - Hybrid control (boiler interlock)
- Floor drying mode
- Weekly timer
- Holiday mode
- Legionella prevention
- Error codes





Receiver



PAR-WT50R-E (Option) Wireless remote controller

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

Energy Monitoring

View Electricity Consumption and Heat Output on the Remote Controller

*SD logo is a trademark of SD-3C, LLC

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

Settings can be an SD card

Two different schedule settings are available for use via the main 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 when the system is running.



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

Settings can be performed using an SD card.

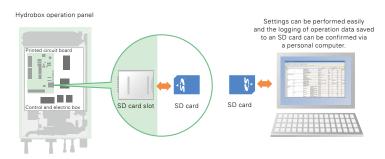
*SD logo is a trademark of SD-3C, LLC

SD* Card

For Easier Settings and Data Logging

The initial setting for ecodan is now simpler than ever before. The special software enables the required initial settings to be saved to an SD card using a personal computer. The system set-up is as easy as moving the SD card from the computer to the SD card slot in the indoor unit. Compared to the previous procedure of inputting settings using the main controller at the installation site, a remarkable reduction in set-up time has been achieved. Thus, it is ideal for busy installers.

*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

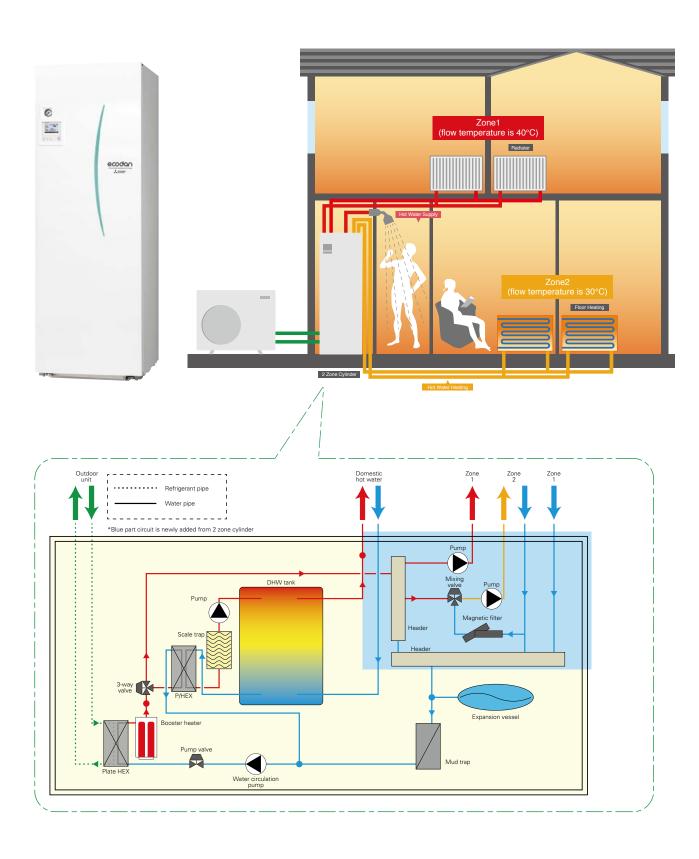
Operation data up to a month long can be stored on a single SD card

- 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

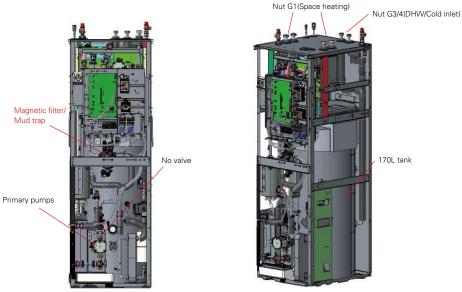
Excellent Performance with Mitsubishi Electric First 2 zone cylinder

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.



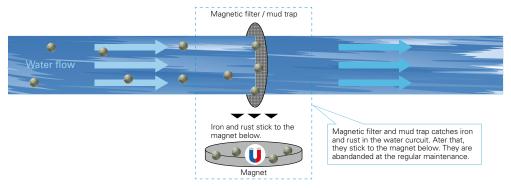
Components

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



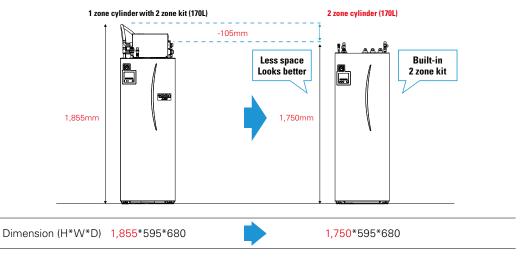
Clean circuit water

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.

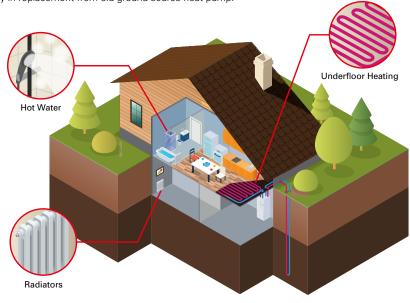


ecodan geodan

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

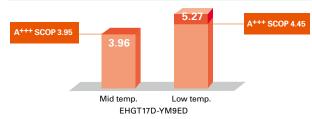
High Performance

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

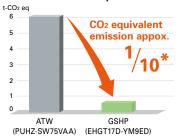


Low GWP refrigerant R32 contributes the reduction of CO₂ emission compared with conventional R410A refrigerant

A⁺⁺⁺ Class Energy Efficiency



<ATW vs GSHP> CO2 equivalent emission

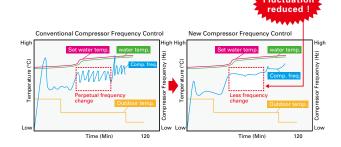


Model name	PUHZ- SW75VAA	EHGT17D- YM9ED
Refrigerant amount	3.0kg	0.9kg
GWP	2088 (R410A)	675 (R32)
t-CO2 eq	6.264	0.608

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

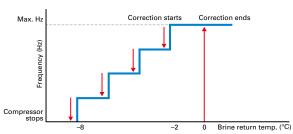
New Compressor Frequency Control

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)*. *BOW35 Rated condition



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)

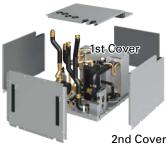
2nd Cover

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 compressor



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

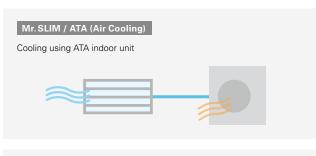
Mr. SLIM+ utilises a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that it is possible to fit to various applications.

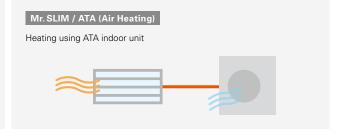
ecodan for Air-to-Water

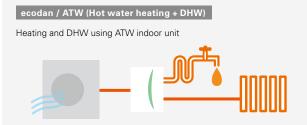
✓Domestic hot water (DHW) supply ✓Heating for multiple rooms



Various Operations









Specifications

Outdoor Refrigera Power su					PLA-ZM71EA2	PKA-M71KA(L)2	PCA-M71KA2	PSA-M71KA	PEAD-M71JA2	PEAD-M71JAL2
	r unit				PUHZ-FRP71VHA2	PUHZ-FRP71VHA2		PUHZ-FRP71VHA2		PUHZ-FRP71VHA2
	Refrigerant					-	R410			-
. Uvver S		Outdoor (V / P	hase / Hz)				230 / Sir			
	Cooling	Capacity	Rated	kW	7.1	7.1	7.1	7.1	7.1	7.1
(ATA)	ccomig	Capacity	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	111111111111111111111111111111111111111		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
			city consumption *2	kWh/a	376	386	384	409	446	423
		SEER *4	city consumption -	KVVII/a	6.6	6.4	6.4	6.0	5.5	5.8
		SEEN 4	Energy-efficiency class		A ⁺⁺	A ⁺⁺	A++	A ⁺	3.5 A	A ⁺
-	Heating	Capacity	Rated	kW	8.0	8.0	8.0	8.0	8.0	8.0
	(average	Capacity	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
	season)	Total input	Rated	kW	2.11	2.29	2.29	2.42	2.14	2.14
		Total input	nateu	KVV				3.30		
					3.80	3.50	3.50		3.74	3.74
		Design load		kW	4.7	4.7	4.7	4.7	4.9	4.9
		Declared capacity	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)
			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
			tricity consumption *2	kWh/a	1,509	1,564	1,556	1,699	1,741	1,741
		SCOP *4			4.3	4.2	4.2	3.8	3.9	3.9
			Energy-efficiency class		A ⁺	A ⁺	A ⁺	A	А	Α
Air-to-Water N (ATW)	Nomina	I flow rate (for I	heating)	L/min		I	22.	.90	I	ı
(ATVV)	Heating *5	A7W35	Capacity	kW	8.00	8.00	8.00	8.00	8.00	8.00
			Input	kW	1.98	1.98	1.98	1.98	1.98	1.98
			COP		4.05	4.05	4.05	4.05	4.05	4.05
		A2W35	Capacity	kW	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	W45	Capacity (ATA cooling + ATW)	kW	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0
	recovery (ATA		Input	kW	1.90	1.93	1.95	2.02	2.20	2.18
	cooling &		COP		7.95	7.82	7.74	7.48	6.86	6.92
	ATW) *6	W55	Capacity (ATA cooling + ATW)	kW	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			Cylinder unit or Hydrobox (see previous page)					
Outdoor	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	68
			ATW Heating	dB(A)	68	68	68	68	68	68
		Operating cur		Α	19.0	19.0	19.0	19.0	19.0	19.0
		Breaker size		Α	25	25	25	25	25	25
Fort mint		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
Ext.pinin		Max. length	Out-In	m	, , , , , , ,	1 -,	30 (for ATA) +	·	1,	1, . 5.00
Ext.pipin		iongtii			20	20	20	20	20	20
Ext.pipir		Max height	Max. height Out-In m							
	eed oper				-15~+46	-15~+46	-15~+46	-15~+46	-15~+46	-15~±46
		Max. height	Cooling *3	°C	-15~+46 -20~+21	-15~+46 -20~+21	-15~+46 -20~+21	-15~+46 -20~+21	-15~+46 -20~+21	-15~+46 -20~+21
Guarante					-15~+46 -20~+21 -20~+35	-15~+46 -20~+21 -20~+35	-15~+46 -20~+21 -20~+35	-15~+46 -20~+21 -20~+35	-15~+46 -20~+21 -20~+35	-15~+46 -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

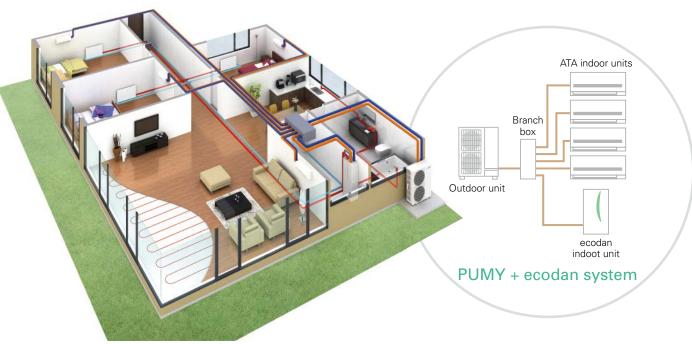
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

PUMY for Air-to-Air

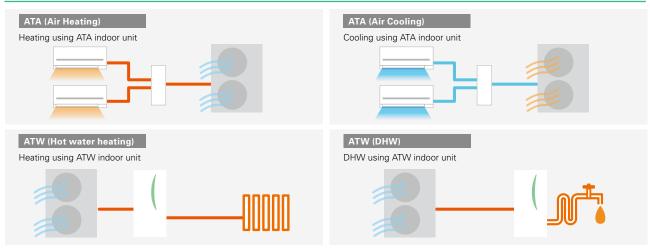
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

ecodan for Air-to-Water

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



Main Operation Patterns



Optional Operation Patterns* (simultaneous)



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.



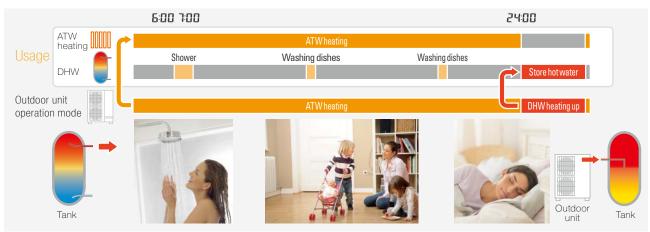
Spring & Autumn 2-in-1 Operation

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.



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	'						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.				24°C		
	of cooling	Outdoor temp.	*2		D.B.				52°C		
	Heating (nominal)*1	Capacity			kW	14.0	16.0	18.0	14.0	16.0	18.0
	(nominal)**	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 of heating	Indoor temp.			W.B.				27°C		
		Outdoor temp.			D.B.				- 15°C		
Air-to-Water (ATW)		rate (for heatin	<u> </u>		L/min				5.8		
(ATVV)	Heating*3	A7W35	Capacity		kW				2.5		
			Power input		kW				.06		
			СОР						.08		
		A2W35	Capacity		kW				0.0		
			Power input COP		kW				50		
	0	ATIA/			- D D				86		
	Guaranteed operating	ATW	Heating DHW		D.B.				+21°C		
	rango	ATA + ATW	ATA heating + DHW			20 - +35°C 7 - +21°C					
		AIA + AIW			D.B.						
	Maximum O	ATA heating + ATW heating *4			°C	-10 - +21°C 55					
Outdoor	Indoor unit	tlet water temp	Total capacity			50 to 130% of outdoor unit capacity					
unit	connectable	nectable only Model/				15-100/8 15-100/8 15-100/8 15-100/8 15-100/8 15-100/8				15 100/9	
			Quantity	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	IVIIXeu system						ST20C or EHSC)	
		individual operation	Model/Quantity (including ATW)	Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8
				Mixed system*12		15-140*5/10	15-140*5/10*6	15-140*5/10*6	15-140*5/10	15-140*5/10*6	15-140*5/10*6
		ATA + ATW Simultaneous Mod	Total capacity	IVIIXCU SYSTOIII						ST20C or EHSC) *	
				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	,,	ATW		10,1	10 20/2		C or EHSC) / 1	10 20/2	10 12 70
	Sound pressu	re level (measi	red in anechoic ro		dB <a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53
			d in anechoic roor		dB <a>	69 / 71	70 / 72	71 / 73	69 / 71	70 / 72	71/73
		iping diameter		Liquid pipe	mm	9.52 flare				,	
				Gas pipe	mm	15.88 flare					
	Fan	Type x Quantit	:V					Propelle	r fan × 2		
		Airflow rate	•		m³/min	110					
					L/s			1,8	383		
					cfm			3,8	384		
		Motor output			kW	0.074 + 0.074					
	Compressor	Type × Quantit	Y					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
	External dime	ensions (H × W :	× D)		mm			1,338 × 1,05	0 × 330 (+40)		
	Weight				kg		122		Y	KM: 125 / YKME: 1	36

į	v.	
3		ı

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

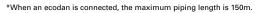
 *10 Exceptionally, three MSZ-SF15VA or MSZ-AP15VF can be connected.

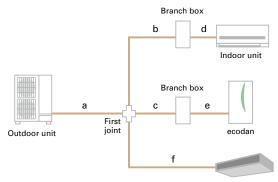
 *11 In the case of City Multi connection, maxmum is P32.

 *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	b or c or f
Farthest piping length after branch box	m	25	d or e
Height difference (Outdoor upside / Outdoor downside)	m	50 / 40	





PUMY+ecodan Compatibility Table

ATW branch box connection compatibility table

Series	Type	Model name	Compatibility	Туре	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 capacity: ATA + ATW (EHST20C or EHSC)

For Simultaneous operation of ATA+ATVV Wax 100% of C	outdoor unit capacii	ly. ATA + A	TW (En3120C 01 En3C)
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.

Indoor unit

<cylinder th="" ι<=""><th>unit (Heati</th><th>ng only)></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>apacity</th><th></th><th></th><th></th><th></th><th></th></cylinder>	unit (Heati	ng only)>								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 only	y	•				
		Expansion vessel		V	レ	_	L	レ	V	_	V	_	_	_	_	
		Booster heater (2/6/9 kW)		V	レ	_	レ	レ	V	レ	レ	_	レ	レ	レ	
Dimensions	3	HxWxD	mm	1400×595 ×680	100x595 x680 2050x595x680 2050x595x680								5×680			
Weight (em	pty)		kg	93	96	93	99	100	102	96	102	113	115	117	117	
Control Boa	ard Power su	ıpply (Phase / V / Hz)		~ /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 ~ ,230V, 50Hz	-	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz		
	heater	Capacity	kW	2	3+6	_	2	2+4	3+6	3+6	3+6	-	2+4	3+6	3+6	
		Current	А	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)	170									:)		
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		Flow temperature	°C						20	- 60						
range	Coolimg	Room temperature	°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+ A-A+												
Sound pow	er level (PW	'L)							41		•					

^{*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 th="" ι<=""><th>unit (Heati</th><th>ng only)></th><th></th><th colspan="12">Medium capacity</th></cylinder>	unit (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						•	ng only						
		Expansion vessel		-	V	V	V	_	V	_	-	_	_		
		Booster heater (2/6/9 kW)		-	- v v v v - v						V	V			
Dimensions	3	HxWxD	mm				1600x5	95x680			2050×5	95x680			
Weight (em	ipty)		kg	103	110	110	112	107	112	120	122	124	124		
Control Boa	ard Power s	upply (Phase / V / Hz)	•	~ /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	Α	-	16	32	16	16	32	-	32	16	32		
Domestic hot water tank	Volume / I	Materia l	L/-			200 / Stainle	ss steel (Net)				300 / Stainle	ss steel (Net)			
Guranteed	Ambient		°C					0 - 35 (≦	80%RH)						
operating	Outdoor	Heating	°C				5	See outdoor u	ınit spec tab l	е					
range *1		Cooling	°C					-	_						
Target	Heating	Room temperature	°C					10 -	- 30						
temperature		Flow temperature	°C					20 -	- 60						
range	Coolimg	Room temperature	°C					-	=						
	Flow temperature °C							-	=						
DHW tank							70			*2		70			
performano	Derformance Water heater energy efficiency class				A ⁺ A										
Sound pow	er level (PW	/L)	dB (A)	(A) 40											

^{*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.

<hydrobox< th=""><th>(Heating</th><th>only)></th><th></th><th></th><th></th><th>Small</th><th>apacity</th><th></th><th></th><th></th><th></th><th>Medium</th><th>capacity</th><th></th><th></th><th>Large</th><th>capacity</th></hydrobox<>	(Heating	only)>				Small	apacity					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- YM9ED
		Туре			•					Heatin	g on l y						•
		Expansion vessel		_	レ	V	V		レ	_	レ	V	レ	_	レ	_	_
		Booster heater (2/6/9kW)		_	- v v v v - v v v v										-	V	
Dimensions	5	HxWxD	mm						800x5	30×360						950×6	00x360
Weight (em	Veight (empty) kg 36 43 44 44 40 44 40 47 48 48								43	48	61	63					
Control Boa	ol Board Power supply (Phase / V / Hz)								~ /N,230V, 50Hz	~/N,230V, 50Hz	~/N,230V, 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 ~ ,400V, 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	Α	-	9	26	13	13	23	-	9	26	13	13	23	-	13
		Breaker size	Α	-	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 (unit spec ta	able					
range " i		Cooling	°C							-	_						
Target	Heating	Room temperature	°C							10	- 30						
temperature		Flow temperature	°C							20	- 60						
range	Coolimg	Room temperature	°C							-	_						
	Flow temperature °C									-	_						
Sound pow	er level (PW	/L)	dB (A)			4	1					4	0				45

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

ndoor	unit				NEW		NEW	NEW						
<cylinder td="" ι<=""><td>unit (Reve</td><td>ersible)></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Small capacit</td><td>у</td><td></td><td></td><td></td><td></td></cylinder>	unit (Reve	ersible)>							Small capacit	у				
Model nam	е			ERST17D-VM2D	ERST17D-VM2BD	ERST17D-VM6D	ERST17D-VM6BD	ERST17D-YM9BD	ERST20D-VM2D	ERST20D-VM6D	ERST20D-YM9D	ERST30D-VM2ED	ERST30D-VM6ED	ERST30D-YM9ED
		Туре						Hea	ting and Coo	ling				
		Expansion vessel		V	V	レ	レ	V	V	V	レ			
		Booster heater (2/6/9 kW)		V	١	V	7	V	V	٧	٧	レ	レ	V
Dimensions	3	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 s	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	$3\!\sim\!,400V,50Hz$	~/N, 230V, 50Hz	~/N, 230V, 50Hz	3∼, 400V, 50Hz
	heater Capacity kV				2	2+4	2	3+6	2	2+4	3+6	2	2+4	3+6
		Current	Α	9	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 range *1	Outdoor	Heating	°C	See outdoor unit spec table										
range i		Cooling	°C					See outd	oor unit spec	table *2				
Target	Heating	Room temperature	°C						10 - 30					
temperature range		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	A ⁺										
Sound pow	er level (PW	/L)	dB (A)	(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	ersible)>				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	レ	レ	V	レ	V			
Dimensions	3	HxWxD	mm	1600x595x680	1600x595x680	1600x595x680	2050x595x680	2050x595x680	2050x595x680			
Weight (em	ipty)		kg	110	111	112	122	122	124			
Control Boa	ard Power s	upply (Phase / V / Hz)		~/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			
	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 / I	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 range		Flow temperature	°C			20 -	60					
range	Coolimg	Room temperature	°C			=						
		Flow temperature	°C		A ⁺	5 -	25	Α				
DHW tank		Max. hot water temperature	°C			7)					
performano	performance Water heater energy efficiency class											
Sound pow	er level (PW	/L)	dB (A)	(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< th=""><th>(Reversi</th><th>ble)></th><th></th><th></th><th>,</th><th>Small capacity</th><th>,</th><th></th><th>Medium</th><th>capacity</th><th></th><th>Large (</th><th>capacity</th></hydrobox<>	(Reversi	ble)>			,	Small capacity	,		Medium	capacity		Large (capacity
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	レ	レ	-	レ	レ	レ	-	-
		Booster heater (2/6/9kW)		-	- v v v - v v								V
Dimensions	6	HxWxD	mm					800x5	30x360			950x6	00x360
Weight (empty)				38	44	43	44	41	48	48	48	62	64
Control Boa	ard Power s	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 (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	Α	-	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	unit spec table				
range i		Cooling	°C				5	See outdoor u	nit spec table *	2			
Target	Heating	Room temperature	°C					10	- 30				
temperature range		Flow temperature	°C					20	- 60				
Coolimg Room temperature °0									=				
	Flow temperature °C				5 - 25								
Sound pow	er level (PW	/L)	dB (A)		4	1		4	10	40	40	4	45

^{*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.



Outdoor unit Model name					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	łz)		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
Average climate water		COP		3.90	3.40	
		Class		A+++	A+++	A+++
outlet 35°C*3 Average climate water		ης		180	181	182
		Class		A++	A++	A++
outlet 55°C*3		ης		129	130	131
DHW 200L(L) Load Profile		Class		A+	A+	A+
(Average climate)*4		ηwh		159	148	148
Max outlet w	ater temperat	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	g)* 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	Heating		°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
Range			°C	10°C~46°C	10°C~46°C	10°C~46°C

Outdoo	r unit				D I				7110	ADAN Harden		
						r, Heating only				ADAN, Heating		
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 supp	ly (V / Phase / F	lz)	•				VAA: 230 / 1	l-ph / 50, YAA: 40	00 / 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	η _s		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	age climate)*4	ηwh		148/121	148/121	148/121	148/121	148/121	148/121	148/121	148/121	145/121
Max outlet v	vater temperati	ure (°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 operati	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	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	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30	2 - 25
	Height	Out-In	m	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30	Max. 25
Guaranteed	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
Operating 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 Nwh values are measured based on EN16147. *5 Sound power levels are measured based on EN12102.

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



Dutdoor	arme					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 1020×1050×480		1338×1050×330	1338×1050×330
Weight			kg	92/104	114/126	118/130	136	136
Power supply	y (V / Phase / H	z)			VAA, VHA: 23	80 / 1-ph / 50, YAA, YHA, YKA:	100 / 3-ph / 50	
Heating	A7W35*2	Nominal kW		8.0	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 clim		Class		A++	A++	A++	A++	A++
outlet 35°C*3	•	ης		162/160	167/165	162/162	161	163
Average clim		Class		A++	A++	A++	A++	A++
outlet 55°C*3		ης		129/128	130/129	125/125	125	127
	300L(XL) Load	Class		A+ / A	A+ / A	A+ / A	-	-
Profile (Avera	ge climate)*4	ηwh		145/120	145/120	138/118	-	-
Max outlet w	ater temperatu	ure (°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 operating	g 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

				ZUBADAN								
Model name				PUHZ- SHW80V/YAA(-BS)	PUHZ- SHW112V/YAA(-BS)	PUHZ SHW140YHA(-BS)	PUHZ- SHW230YKA2					
Refrigerant					R41	0A*1						
Dimensions		H×W×D	mm	1020×1050×480	1020×1050×480	1350×950×330	1338×1050×330					
Weight		•	kg	116/128	116/128 116/128 134							
Power supply	(V / Phase / H	z)		VAA, VHA: 230 / 1-ph / 50, YAA, 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					
				3.55	3.22	2.96	2.37					
Average clim		Class		A ⁺⁺	A++	A++	A++					
outlet 35°C*3		ηs		169/167	171/169	163	164					
Average clim		Class		A++	A++	A++	A++					
outlet 55°C*3	et 55°C*3			133/132	135/135	127	127					
	300L(XL) Load	Class		A+/A	A+ / A	A+ / A						
Profile (Avera	ge climate)*4	ηwh		145/120	145/120	138/118	=-					
Max outlet w	ater temperatu	ıre (°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	Heating		°C	-28°C~21°C	-28°C~21°C	-28°C~21°C	-25°C~21°C					
Operating 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 Nwh values are measured based on EN16147. *5 Sound power levels are measured based on EN12102.

R410A	Split type	Medium capacity (7.5kW-14kW)	Large capacity (≧16kW)		
	ZUBADAN Now Generation	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	ame				EHPT17X- VM2D	EHPT17X- VM6D	EHPT17X- YM9D	EHPT20X- MED	EHPT20X- VM6D	EHPT20X- YM9D	EHPT20X- YM9ED	EHPT20X- TM9D	EHPT20X- MHEDW	EHPT30X- MED	EHPT30X- YM9ED
		Тур	e							Heating only					
		lmn	nersion heater		-	-	-	-	-	-	-	-	/	-	-
		Exp	ansion vessel		/	/	/	-	/	/	-	1	-	-	-
		Boo	ster heater		/	1	1	-	1	1	1	1	-	-	1
Dimensi	ons	H×V	V×D	mm		1400×595–680)			1600×5	95×680			2050×5	95×680
Weight (empty)	•		kg	86	87	89	87	94	96	90	96	94	106	110
Control	board pow	er supp	ly (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	Pov	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	Сар	acity	kW	2	2+4	3+6	-	2+4	3+6	3+6	3+6	-	-	3+6
		Cur	rent	Α	9	26	13	-	26	13	13	23	-	-	13
		Brea	aker size	Α	16	32	16	-	32	16	16	32	-	-	16
	Immersio	ion Power supply (Phase / V /		Hz)	-	-	-	-	-	-	-	-	~/N, 230V, 50Hz	-	-
	heater	Сар	acity	kW	-	-	-	-	-	-	-	-	3	-	-
		Cur	Current		-	-	-	-	-	-	-	-	13	-	-
		Brea	aker size	Α	-	-	-	-	-	-	-	-	16	-	-
Domesti hot water		olume /	Material	L/-	170/	Stainless steel	(Net)			200 / Stainle	ss steel (Net)			300 / Stainle	ss steel (Net)
Guarant	eed A	mbient		°C		0 - 35 (≦80%RH)									
operatin range*1	g O	utdoor	Heating	°C					See ou	tdoor unit spe	c table				
range-			Cooling	°C						-					
Target		eating	Room temperature	°C						10~30					
tempera	ture		Flow temperature	°C						20~60					
range	Co	ooling	Room temperature	°C						-					
	Flow temperature °C									-					
DHW tar		lax. hot	water temperature	°C		70		*3			70			*3	70
perform	ance W	e Water heater emergy efficiency class A+													
Sound p	ower level	(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	
		1	ype				Heating a	nd cooling			
		I	mmersion heater		-	-	-	-	-	-	
		E	xpansion vessel		1	1	1	1	-	-	
		E	looster heater		1	-	1	1	1	/	
Dimensi	ions	F	l×W×D	mm	1400×595×680		1600×595×680)	2050×5	95×680	
Weight	(empty)			kg	86	93	94	95	107	108	
Control	board p	ower su	pply (Phase / V / Hz)				~/N, 23	0V, 50Hz	•		
Heater	Boost		ower supply (Phase / V /	Hz)	~/N, 230V, 50Hz	_		~/N, 23	0V, 50Hz		
	heate		Capacity	kW	2	-	2	2+4	2	2+4	
			Current	Α	9	-	9	26	9	26	
		E	Breaker size	Α	16	-	16	32	16	32	
	Imme		Power supply (Phase / V / H		-	-	-	-	-	-	
	heate	*2	Capacity	kW	-	-	-	-	-	-	
		C	Current	Α	-	-	-	-	-	-	
		E	Breaker size	Α	-	-	-	-	-	-	
Domesti hot wate		Volum	e / Material	L/-	170 / Stainless steel (Net)	Stainless 200 / Stainless steel (Net) 300 / Stainless steel					
Guarant		Ambie	nt	°C	0 - 35 (≦80%RH)						
operatin range*1	ıg	Outdo	or Heating	°C			See outdoor	unit spec table	•		
range .			Cooling	°C		:	See outdoor u	nit spec table	+4		
Target		Heatin	g Room temperature	°C			10	~30			
tempera range	ture		Flow temperature	°C			20	~60			
range		Coolin	g Room temperature	°C				_			
Flow temperature			°C			5~	25				
DHW ta		Max. h	ot water temperature	°C	70	*3		7	0		
perform	ance	Water	heater emergy efficiency	y class		A	\+			4	
Sound p	ower le	vel (PW	L)	dB (A)			4	10			

^{*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.

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



Packaged Type Specifications

<Hydrobox (Heating only)>

Model na	ame					EHPX- MED	EHPX- VM2D	EHPX- VM6D	EHPX- YM9D	EHPX- YM9ED	
			Тур	e		Heating only					
			Imn	nersion heater		-					
			Exp	ansion vessel		-	1	1	1	-	
			Booster heater			-	1	1	1	/	
Dimensi	ons		H×V	V×D	mm		80	00×530×36	60		
Weight (empty)				kg	25	32	33	33	28	
Control I	board p	ower	supp	ly (Phase / V / Hz)			~/N	I, 230V, 5	0Hz		
Heater	Boost		Pow	er supply (Phase / V /	Hz)	 − ~/N, 230V, 50Hz 3~, 400V, 50H 				V, 50Hz	
	heate	r	Cap	acity	kW	-	2	2+4	3+6	3+6	
			Cur	rent	Α	-	9	26	13	13	
			Brea	aker size	Α	-	16	32	16	16	
Guarante		Amb	ient		°C	0~35 (≦80%RH)					
operatin range*1	g	Outd	loor	Heating	°C	See outdoor unit spec table					
range .				Cooling	°C			-			
Target		Heat	ing	Room temperature	°C	10~30					
tempera range	temperature			Flow temperature	°C			20~60			
Co		Cool	ing	Room temperature	°C			-			
	Flow temperature			Flow temperature	°C	-					
Sound p	Sound power level (PWL)				dB (A)			40			

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

<Hydrobox (Reversible)>

Model n	ame					ERPX- MD	ERPX- VM2D	ERPX- VM6D	ERPX- YM9D	
			Тур	e		Heating and cooling				
		i	lmn	nersion heater		-	-	-	-	
		İ	Exp	ansion vessel		/	/	/	/	
	Booster heater					-	/	1	/	
Dimensi	Dimensions HxWxD				mm		800×53	30×360		
Weight (empty)				kg	30	33	34	35	
Control I	board p	ower:	supp	ly (Phase / V / Hz)			~/N, 230	V, 50Hz		
Heater	Booster Power supply (Phase /				Hz)	-	~/N, 230	3~, 400V, 50Hz		
	heate	r	Сар	acity	kW	-	2	2+4	3+6	
		ı	Current		Α	-	9	26	13	
		ı	Bre	aker size	Α	-	16	32	16	
Guarant	eed	Amb	ient		°C	0~35 (≦80%RH)				
operatin range*1	g	Outd	oor	Heating	°C	See outdoor unit spec table				
range				Cooling	°C	See	outdoor un	it spec table	e *2	
Target		Heati	ing	Room temperature	°C		10-	-30		
temperature				Flow temperature	°C		20-	-60		
range		Cooli	ing	Room temperature	°C	-				
				Flow temperature	°C	_				
Sound p	Sound power level (PWL)				dB (A)		4	0		

- *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.



PI 17-

Outdoor unit

Model name				WM50VHA	WM60VAA	PUZ-	PUZ-	HWM140V/YHA			
Refrigerant				AUAGIAIAA	VVIVIOUVAA	R32*1	VVIVITIZV/TAA	TIVVIVI 140V/THA			
Dimensions		H×W×D									
		HXVVXD	mm	943×950×330	1020×1050×480		1020×1050×480				
Weight			kg	71	98	98/111	119/132	132/143			
Power supply				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		3.70	3.75	3.51	3.44	3.15			
Average clim		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		ης		129	142	139/138	134/133	132/131			
DHW 200L(L) L		Class		A+	A+	A+	A+	A+			
Profile (Averaç	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	j)* ⁵		dB(A)	61	58	58	60	67			
Max operatin	g current		А	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	DHW		°C	-20°C~35°C	-20°C~35°C	-20°C~35°C	-25°C~35°C	-28°C~35°C			
Range						10°C~46°C 10°C~46°C					

PI 17-

- *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 EN14511 (Circulation pump
- input is not included.).
 *3 ηs values are measured based on EN14825.
- *4 ηwh values are measured based on EN16147.
 *5 Sound power levels are measured based on EN12102.

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

Optional Parts

Split 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	~	For boiler and buffer (30m)
Immersion heater	PAC-IH01V2-E	V	-	1Ph 1kW
	PAC-IH03V2-E	V	-	1Ph 3kW
Joint pipe	PAC-SG72RJ-E	V	~	For PUHZ-SW75 ø6.35 → ø9.52
	PAC-SG73RJ-E	-	V	For PUHZ-SW200YKA/SHW230YKA2 ø9.52 → ø12.7
	PAC-SG74RJ-E	V	V	For PUHZ-SW75 ø12.7 → ø15.88
	PAC-SH30RJ-E	V	V	For PUHZ-SW75AA ø9.52 → 6.35
	PAC-SH50RJ-E	V	V	For PUHZ-SW75AA ø15.88 → 12.7
Wi-Fi interface	MAC-567IF-E	V	V	
2 Zone kit	PAC-TZ02-E	V	V	
Expansion vessel	PAC-EVP12-E1	V	_	12L

<Outdoor unit>

Parts name	Model name	R	32 (Eco Inverte	er)	R3	2 Heating only	(Power Inver	ter)		R32 Hea	ating only (ZUI	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	V	V	-	-	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SH96SG-E*1	-	-	-	レ*1	レ*1	レ*1	レ*1	レ*1	レ*1	レ*1	レ ∗1	レ ∗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	V	V	V	レ	V	V
Drain socket*2	PAC-SG61DS-E	-	-	-	V	V	V	V	V	V	V	V	V
Centralized drain pan*2	PAC-SG64DP-E	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SJ83DP-E	-	-	-	V	V	V	V	V	V	V	V	V
Base heater	MAC-642BH-U1	V	V	V	-	-	-	-	-	-	-	-	-
Control/Service tool	PAC-SK52ST	-	-	-	V	V	V	V	レ	V	レ	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	V	v	V	·	L	V	v	v
Air discharge guide	MAC-886SG-E	-	-	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	V	-	-	-	-	V	-
	PAC-SH96SG-E	V	V	V	V	V	V	V	-	V
Air protection guide	PAC-SH63AG-E	-	-	V	-	-	-	-	V	-
	PAC-SH95AG-E	V	V	-	V	V	V	レ	-	V
Attachement	PAC-SJ82AT-E	V	V	-	-	-	V	V	-	V
Drain socket*2	PAC-SG61DS-E	V	V	V	V	V	V	レ	-	-
Centralized drain pan*2	PAC-SG64DP-E	-	-	V	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	V	V	-	-	-	-
	PAC-SJ83DP-E	V	V	-	-	-	V	レ	-	-
Base heater	MAC-642BH-U1	-	-	-	-	-	-	-	-	-
Control/Service tool	PAC-SK52ST	V	L	L	レ	V	レ	レ	~	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	レ	
Wireless receiver	PAR-WR51R-E	V	レ	
Thermistors	PAC-SE41TS-E	V	レ	For room temp.
	PAC-TH011-E	L	V	For buffer and zone (flow and return temp.)
	PAC-TH011TK2-E	-	レ	For tank temp. (5m)
	PAC-TH011TKL2-E	-	V	For tank temp. (30m)
	PAC-TH012HT-E	V	レ	For boiler and buffer (5m)
	PAC-TH012HTL-E	L	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	レ	
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 (Por	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	v
Air discharge guide	PAC-SG59SG-E	V	-	=	=	v
	PAC-SH96SG-E	-	V*	レ ∗	レ ∗	-
Air protection guide	PAC-SH63AG-E	V	-	-	-	V
	PAC-SH95AG-E	-	V*	レ ∗	レ ∗	-
Attachement	PAC-SJ82AT-E	-	V	レ	V	-
Drain socket	PAC-SG61DS-E	レ	V	レ	V	-
Centralized drain pan	PAC-SG64DP-E	V	-	=	=	-
	PAC-SJ83DP-E	-	レ	レ	V	-

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



Ground Source Heat Pump Specifications

				Specification with 38% propylene gl
Model name				EHGT17D-YM9ED
Heating Capacity (Min-Max)				2.5-10.0kW
leat Output B0/W35 (Rated)				5.0kW
OP B0/W35				4.58
COP (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%
verage Climate)*3	Rank			A ⁺
ound Power Level (Rated)*4				42dB(A)
efrigerant /Amount				R32*1/0.9kg
iWP				608
imensions (HxWxD)				1,750mm×595mm×680mm
HW Tank				170L (Net)
/eight				Unit 181kg
ectrical data		Heat pump	Power supply	3ph/400V/50Hz
cctricar data		Trout pump	Max current	8A
			Breaker	16A
		Booster heater	Power supply	3ph/400V/50Hz
		Booster Heater		3kW+6kW
			Capacity	
			Current	13A
			Breaker	16A
onnections	Water	Primary circuit		ø28mm
		DHW circuit		ø22mm
	Brine	Brine circuit		ø28mm
perating range	Heating	Room temperature		10~30°C
		Flow temperature		20~60°C
	DHW			40~60°C
	Legionella prev	ention		60~70°C
uaranteed operating range		Ambient		0~35°C
				≦80%RH
		Water outlet temperatur	e	20~60°C
		Brine inlet temperature		-8~30°C
		Min. brine outlet temper	rature	-12°C
ow rate range		Primary circuit	Max.	27.7L/min
		,	Min.	7.1L/min
		Brine circuit	Max.	27.7L/min
		Simo on our	Min.	7.1L/min
eat source fluid type				29 WT% Bioethanol
sat source nata type				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	itdoor unit		Po	owe	r in	vert		32		ZUI	BAD	AN		Po	owe	r inv		410 er		JBA	ADA	.N	Hyb Mr.	Р		tem
					T			٨					Н									Γ	SLIM+	_		_
		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	S	S	S	■	■	Ч	P	₽	■	Я	П	Я	•	4	P	P	PL	₹	<u>Р</u>	₹	4		٦	3	2
Cylinder	EHST17D-YM9D	•	•	•	•	•			•	•				•						Н						\vdash
	EHST20D-MED	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST20D-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•									_			L
	EHST20D-VM6D EHST20D-YM9D	•	•	•	•	-	•	•	•	•	•	•	•	•												
	EHST20D-YM9ED	•	•	•	•	•	•	•	•	•	•	•	•	•						Г						
	EHST20D-TM9D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST30D-MED	•	•	•	•	•	•	•	•	•	•	•	•	•									<u> </u>	L		L
	EHST30D-VM6ED EHST30D-YM9ED	•	•	•	•	•	•	•	•	•	•	•	•	•												_
	EHST30D-TM9ED	•	•	•	•	•	•	•	•	•	•	•	•	•												H
	EHST20C-MED	Ť		Ť	Ť	Ť	Ť	_	Ť	Ť	Ť	Ť		Ť	•	•			•	•	•		•			Т
	EHST20C-VM2D														•	•			•	•	•		•	•	•	•
	EHST20C-VM6D														•	•			•	•	•		•	•	•	•
	EHST20C-YM9D														•	•			•	•	•		•	•	•	•
	EHST20C-YM9ED EHST20C-TM9D												Н		•	•			•	•	•		•	•	•	•
	EHST30C-MED														•	•			•	•	•		Ť	Ť	Ť	Ť
	EHST30C-VM6ED														•	•			•	•	•					Г
	EHST30C-YM9ED														•	•			•	•	•					
	EHST30C-TM9ED			_	L				_						•	•			•	•	•		L	<u> </u>		
Reversible Cylinder	ERST17D-VM2D ERST17D-VM2BD	•	•	•	•	•			•	•			Н	•		_		_		_	L					H
	ERST17D-VM6D	•	•	•	•	•			•	•				•												H
	ERST17D-VM6BD	•	•	•	•	•			•	•			Н	•										\vdash		\vdash
	ERST17D-YM9BD	•	•	•	•	•			•	•				•												
	ERST20D-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•									L	L		L
	ERST20D-VM6D	•	•	•	•	•	•	•	•	•	•	•	•	•												L
	ERST20D-YM9D ERST30D-VM2ED	•	•	•	-	•	•	-	•	•	•	•	•	•												H
	ERST30D-VM6ED	•	•	•	•	•	•	•	•	•	•	•	•	•												Н
	ERST30D-YM9ED	•	•	•	•	•	•	•	•	•	•	•	•	•												
	ERST20C-VM2D														•	•			•	•	•		L	L		L
	ERST20C-VM6D														•	•			•	•	•					L
	ERST20C-YM9D ERST30C-VM2ED												Н		•	-			•	•	•					H
	ERST30C-VM6ED														•	•			•	•	•					
	ERST30C-YM9ED														•	•			•	•	•					
Heating only Hydrobox	EHSD-MED	•	•	•	•	•	•	•	•	•	•	•	•	•												
riyarobox	EHSD-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•												L
	EHSD-VM6D EHSD-YM9D	•	•	•	•	•	•	•	•	•	•	•	•	•		_	_	_		\vdash	\vdash	H	\vdash	\vdash		\vdash
	EHSD-YM9ED	•	•	•	•	•	•	•	•	•	•	•	•	•												H
	EHSD-TM9D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHSC-MED														•	•			•	•	•		•			
	EHSC-VM2D														•	•			•	•	•		•	•	•	•
	EHSC-VM6D EHSC-YM9D												Н		•	•			•	•	•		•	•	•	•
	EHSC-YM9ED														•	•			•	•	•		•	•	•	•
	EHSC-TM9D														•	•			•	•	•		•	•	•	•
	EHSE-MED																•	•				•				
	EHSE-YM9ED																•	•				•		L		L
Reversible Hydrobox	ERSD-MED	•	•	•	•	•	•	•	•	•	•	•	•	•	H											L
	ERSD-VM2D ERSD-VM6D	•	•	•	•	•	•	•	•	•	•	•	•	•	H					\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash
	ERSD-YM9D	•	•	•	•	•	•	•	•	•	•	•	•	•	H					\vdash					H	\vdash
	ERSC-MED	Ė	Ė	Ė	Ė	Ĺ							П		•	•			•	•	•					
	ERSC-VM2D														•	•			•	•	•					
	ERSC-VM6D	1											Ц		•	•			•	•	•	L	\vdash	\vdash	_	L
	ERSC-YM9D			_	_	<u> </u>	Ш						Н		•	•			•	•	•	_	<u></u>	\vdash	\vdash	\vdash
	ERSE-MED			ı	ı	1												•			ı		1		1	

Packaged indoor/outdoor unit

Packaged indo combination	or/outdoor unit			-	₹32	
			Pov	wer erte	r	ZUBADAN
		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			•	•	•
	EHPT30X-YM9ED			•	•	•
Reversible	ERPT17X-VM2D	•	•	•		
Cylinder	ERPT20X-VM2D	•	•	•	•	•
	ERPT20X-MD	•	•	•	•	•
	ERPT20X-VM6D	•	•	•	•	•
	ERPT30X-VM2ED			•	•	•
	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
- See status of each of your heating zones & adjust set points
- 3 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

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



			For n	nedium-	temperatu	re applic	ation			Foi	· low-ten	nperature	application	on	
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	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	Sound power level LwA indoor	Sound power level Lwa outdoor
				kW	%	%	dB	dB			kW	%	%	dB	dB
SUZ-SWM40VA	EHST17D-***D	A++	A+	4.6	129	148	41	58	A+++	A+	5.1	180	148	41	58
	ERST17D-***D	A++	A+	4.6	132	148	41	58	A+++	A+	5.1	187	148	41	58
	EHST20D-***D	A++	A+	4.6	129	159	41	58	A+++	A+	5.1	180	159	41	58
	ERST20D-***D	A++	A+	4.6	132	159	41	58	A+++	A+	5.1	187	159	41	58
	EHST30D-***D	A++	A+	4.6	129	128	41	58	A+++	A+	5.1	180	128	41	58
	ERST30D-***D	A++	A+	4.6	132	128	41	58	A+++	A+	5.1	187	128	41	58
	EHSD-***D	A++	-	4.6	129	-	41	58	A+++	-	5.1	180	-	41	58
	ERSD-***D	A++	-	4.6	132	-	41	58	A+++	-	5.1	187	-	41	58
SUZ-SWM60VA	EHST17D-***D	A++	A+	6.0	130	144	41	60	A+++	A ⁺	6.6	181	144	41	60
	ERST17D-***D	A++	A+	6.0	133	144	41	60	A+++	A+	6.6	187	144	41	60
	EHST20D-***D	A++	A+	6.0	130	148	41	60	A+++	A ⁺	6.6	181	148	41	60
	ERST20D-***D	A++	A+	6.0	133	148	41	60	A+++	A+	6.6	187	148	41	60
	EHST30D-***D	A++	A+	6.0	130	128	41	60	A+++	A+	6.6	181	128	41	60
	ERST30D-***D	A++	A+	6.0	133	128	41	60	A+++	A+	6.6	187	128	41	60
	EHSD-***D	A++	-	6.0	130	-	41	60	A+++	-	6.6	181	-	41	60
	ERSD-***D	A++	-	6.0	133	-	41	60	A+++	-	6.6	187	-	41	60
SUZ-SWM80VA	EHST17D-***D	A++	A+	7.1	131	144	41	62	A+++	A+	7.1	182	144	41	62
	ERST17D-***D	A++	A+	7.1	133	144	41	62	A+++	A+	7.1	187	144	41	62
	EHST20D-***D	A++	A+	7.1	131	148	41	62	A+++	A+	7.1	182	148	41	62
	ERST20D-***D	A++	A+	7.1	133	148	41	62	A+++	A+	7.1	187	148	41	62
	EHST30D-***D	A++	A+	7.1	131	128	41	62	A+++	A+	7.1	182	128	41	62
	ERST30D-***D	A++	A+	7.1	133	128	41	62	A+++	A+	7.1	187	128	41	62
	EHSD-***D	A++	-	7.1	131	_	41	62	A+++	-	7.1	182	-	41	62
	ERSD-***D	A++	_	7.1	133	_	41	62	A+++	-	7.1	187	-	41	62
PUD-SWM60VAA(-BS)	E*ST17D-***D	A++	A+	6.0	130	136	41	55	A+++	A+	6.0	175	136	41	55
	E*ST20D-***D	A++	A+	6.0	130	148	41	55	A+++	A+	6.0	175	148	41	55
	E*ST30D-***D	A++	Α	6.0	130	121	41	55	A+++	Α	6.0	175	121	41	55
	E*SD-***D	A++	_	6.0	130	_	41	55	A+++	_	6.0	175	_	41	55
PUD-SWM80V/YAA(-BS)	E*ST17D-***D	A++	A+	8.0	131/130	136	41	56	A+++	A+	8.0	178/176	136	41	56
	E*ST20D-***D	A++	A+	8.0	131/130	148	41	56	A+++	A+	8.0	178/176	148	41	56
	E*ST30D-***D	A++	Α	8.0	131/130	121	41	56	A+++	Α	8.0	178/176	121	41	56
	E*SD-***D	A++	_	8.0	131/130	_	41	56	A+++	_	8.0	178/176	_	41	56
PUD-SWM100V/YAA(-BS)	E*ST20D-***D	A++	A+	10.0	131/130	148	41	59	A+++	A+	10.0	178/177	148	41	59
	E*ST30D-***D	A++	Α	10.0	131/130	121	41	59	A+++	Α	10.0	178/177	121	41	59
	E*SD-***D	A++	_	10.0	131/130	_	41	59	A+++	_	10.0	178/177	_	41	59
PUD-SWM120V/YAA(-BS)	E*ST20D-***D	A++	A+	12.0	129/128	148	41	60	A+++	A ⁺	12.0	177/176	148	41	60
,	E*ST30D-***D	A++	A	12.0	129/128	121	41	60	A+++	A	12.0	177/176	121	41	60
	E*SD-***D	A++	_	12.0	129/128	_	41	60	A+++	_	12.0	177/176	_	41	60
PUD-SHWM60VAA(-BS)	E*ST17D-***D	A++	A+	6.0	134	136	41	55	A+++	A ⁺	6.0	178	136	41	55
	E*ST20D-***D	A++	A+	6.0	134	148	41	55	A+++	A+	6.0	178	148	41	55
	E*ST30D-***D	A++	A	6.0	134	121	41	55	A+++	A	6.0	178	121	41	55
	E*SD-***D	A++	_	6.0	134		41	55	A+++	-	6.0	178	_	41	55
PUD-SHWM80V/YAA(-BS)	E*ST17D-***D	A++	A+	8.0	135/134	136	41	56	A+++	A+	8.0	181/179	136	41	56
,,,,	E*ST20D-***D	A++	A+	8.0	135/134	148	41	56	A+++	A+	8.0	181/179	148	41	56
	E*ST30D-***D	A++	A	8.0	135/134	121	41	56	A+++	A	8.0	181/179	121	41	56
	E*SD-***D	A++	_	8.0	135/134	-	41	56	A+++	-	8.0	181/179	_	41	56
	2 00 0	L '`		0.0	100/104		71	30	1	_	0.0	101/119		71	

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

PUD-SHWM100VYAA(-8S) E*ST20D***D A** A* 10.0 136/135 148 41 58 A*** A* 10.0 186/178 148 41 59 A*** A* 10.0 186/178 121 41 41 59 A*** A* 10.0 186/178 A** A* 12.0 136/135 A** A*				Forn	nedium-	temperatu	re applic	ation			For	low-ten	nperature a	applicati	on	
PUD-SHWM1100VYAA(-BS) E+ST20D-***D A** A* 10.0 130/135 148 41 59 A*** A* 10.0 180/178 128 4* E+ST30D-***D A** A* 10.0 130/135 148 41 59 A*** A* 10.0 180/178 128 4* E+ST30D-***D A** A* 10.0 130/135 - 41 59 A*** A* 10.0 180/178 121 4* E+ST30D-***D A** A* 12.0 135/134 148 41 60 A*** A* 12.0 179/177 148 4* E+ST30D-***D A** A* 12.0 135/134 121 41 60 A*** A* 12.0 179/177 121 4* E+ST30D-***D A** A* 12.0 135/134 121 41 60 A*** A* 12.0 179/177 121 4* E+ST30D-***D A** A* 13.0 134/134 - 41 60 A*** A* 12.0 179/177 121 4* E+ST30D-***D A** A* 13.0 134/134 121 41 60 A*** A* 12.0 179/177 121 4* E+ST30D-***D A** A* 13.0 134/134 121 41 60 A*** A* 14.0 179/177 121 4* E+ST30D-***D A** A* 13.0 134/134 121 41 62 A*** A* 14.0 179/177 121 4* E+ST30D-***D A** A* 13.0 134/134 121 41 62 A*** A* 14.0 179/177 121 4* E+ST30D-***D A** A* 13.0 134/134 121 41 62 A*** A* 14.0 179/177 121 4* E+ST30D-***D A** A* 17.1 129/128 136 41 58 A** A* 7.2 162/160 136 4* E+ST30D-***D A** A* 7.1 129/128 136 41 58 A** A* 7.2 162/160 136 4* E+ST30D-***D A** A* 7.1 132/132 136 41 58 A** A* 7.2 162/160 136 4* E+ST30D-***D A** A* 7.1 132/132 145 41 58 A** A* 7.2 162/160 146 41 61 61 61 61 61 61 61 61 61 61 61 61 61	ınit lı	ndoor unit	pace heating ciency class	ing energy slass	output under mate conditions	pace heating ciency under mate conditions	ing energy Inder average Inditions	ver level Lwa	ver level Lwa	pace heating ciency class	ing energy slass	output under mate conditions	pace heating ciency under mate conditions	ing energy under average nditions	ver level Lwa	Sound power level LwA outdoor
PUD-SHWM100VYAAI-BS			Seasonal s energy effi	Water heat efficiency o						Seasonal s energy effi	Water heat efficiency o				Sound pov indoor	Sound pov a outdoor
Part	/M100V/YAA(-BS) E	E*ST20D-***D	A++	A+						A+++	A+				41	59
PUD-SHWM120VYAAL-BY E*ST20D************************************	· · · · -		A++								Α				41	59
PUD-SHWM120VYAA(BB)																59
E-ST30D-***D																60
PUPL-SHWM140VYAAL-BS EST20E-**D A+ A+ A+ A+ A+ A+ A+ A																60
PUDSHWM140VYAA(-BS)	_										_					60
E*ST30D****D A** A 14.0 134/134 121 A1 62 A** A 14.0 139/177 121 A** A*				Δ+							Δ+					62
PURJ. SWITOVIYAA(-BS)	· · · · -															
Purity Say Name Purity Say																62
RESTITOL***D																62 58
Hest A++																58
ERST20D-***D A++ A+ 7.1 132/132 145 41 58 A++ A+ 7.2 166/165 145 41 6HST30D-***D A++ A 7.1 132/132 145 41 58 A++ A+ 7.2 166/165 145 41 6HST30D-***D A++ A 7.1 132/132 120 41 58 A++ A 7.2 162/160 120 41 6HSD-***D A++ A 7.1 132/132 120 41 58 A++ A 7.2 162/160 120 41 6HSD-***D A++ A 7.1 132/132 120 41 58 A++ A 7.2 162/160 120 41 6HSD-***D A++ A+ 7.1 132/132 120 41 58 A++ A 7.2 162/160 120 41 6HSD-***D A++ A+ 7.1 132/132 1- 41 58 A++ A 7.2 162/160 1- A++ A+ 10.6 167/165 145 40 60 A++ A+ 10.6 167/165 145 40 A+ A+ 10	_														41	58
EHST30D.***D																58
ERST30D.***D A++ A 7.1 132/132 120 41 58 A++ A 7.2 166/165 120 4- EHSD.***D A++ - 7.1 129/128 - 41 58 A++ - 7.2 166/165 120 4- ERSD.***D A++ - 7.1 129/128 - 41 58 A++ - 7.2 166/165 120 4- ERSD.***D A++ - 7.1 132/132 - 41 58 A++ - 7.2 166/165 - 4- ERSD.***D A++ A 10.0 130/129 145 40 60 A++ A+ 10.6 167/165 145 40 ERST30C.***D A++ A+ 10.0 132/132 145 40 60 A++ A+ 10.6 167/165 145 40 ERST30C.***D A++ A 10.0 130/129 120 40 60 A++ A 10.6 167/165 120 40 ERSC.***D A++ A 10.0 132/132 120 40 60 A++ A 10.6 167/165 120 40 ERSC.***D A++ - 10.0 130/129 - 40 60 A++ A 10.6 167/165 120 40 ERSC.***D A++ A 10.0 132/132 120 40 60 A++ A 10.6 167/165 120 40 ERSC.***D A++ A 12.1 125/125 138 40 72 A++ A 12.9 164/164 138 40 ERST30C.***D A++ A 12.1 125/125 138 40 72 A++ A+ 12.9 164/164 138 40 ERST30C.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERST30C.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERST30C.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERST30C.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/125 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/127 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/127 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/127 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/127 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/127 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/127 - 40 72 A++ A 12.9 164/164 138 40 ERSC.***D A++ A 12.1 125/127 - 40 72 A+	-															58
EHSD.***D																58
ERSD.***D															41	58
Puhz-sw100V/yaa(-Bs)	<u> </u>													-	41	58
ERST20C-***D							-	41	58			7.2	166/165	-	41	58
EHST30C-***D A++ A 10.0 130/129 120 40 60 A++ A 10.6 167/165 120 40 60 A++ A 10.6 167/165 120 40 60 A++ A 10.6 167/165 120 40 60 A++ A 10.6 170/169 120 40 60 A++ A 10.6 167/165 A++ A 10.6 167/165 A++ A 10.6 167/165 A++ A 10.0 130/129 A++ A 10.0 130/129 A++ A 10.0 60 A++ A 10.6 167/165 A++ A 10.0 130/129 A++ A 10.0 60 A++ A 10.6 167/165 A++ A 10.0 170/169 A++ A 10.0 130/129 A++ A 10.0 60 A++ A 10.6 167/165 A++ A 10.0 170/169 A++ A 10.0 130/129 A++ A 10.0 60 A++ A 10.6 167/165 A++ A 10.0 160/169 A++ A 10.0 130/129 A++ A 10.0 130/129 A++ A 10.0 12.9 162/162 A++ A					10.0	130/129	145	40	60		A+	10.6	167/165	145	40	60
ERST30C-***D A++ A 10.0 132/132 120 40 60 A++ A 10.6 170/169 A++ A 1	E	ERST20C-***D	A++	A+	10.0	132/132	145	40	60	A++	A+	10.6	170/169	145	40	60
EHSC-***D A++ - 10.0 130/129 - 40 60 A++ - 10.6 167/165 - 40 ERSC-***D A++ - 10.0 132/132 - 40 60 A++ - 10.6 170/169 - 40 PUHZ-SW120V/YHA(-BS) EHST20C-***D A++ A+ 12.1 125/125 138 40 72 A++ A+ 12.9 162/162 138 40 ERST20C-***D A++ A+ 12.1 127/127 138 40 72 A++ A+ 12.9 162/162 138 40 ERST30C-***D A++ A 12.1 127/127 138 40 72 A++ A 12.9 162/162 118 40 ERST30C-***D A++ A 12.1 127/127 118 40 72 A++ A 12.9 162/162 118 40 ERSC-***D A++ - 12.1 125/125 - 40 72 A++ A 12.9 162/162 - 40 ERSC-***D A++ - 12.1 127/127 118 40 72 A++ - 12.9 162/162 - 40 ERSC-***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 162/162 - 40 ERSC-***D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 ERSE-***D A++ - 13.5 126 - 45 78 A++ - 15.3 152 - 45 ERSE-***D A++ - 15.5 129 - 45 78 A++ - 17.3 147 - 45 ERSE-***D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 ERSE-***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST30C-***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST30C-***D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 169/167 120 46 ERST30C-***D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 169/167 120 46 ERST30C-***D A++ A+ 9.0 135/134 120 40 59 A++ A+ 9.6 169/167 120 46 ERST30C-***D A++ A+ 9.0 135/134 120 40 59 A++ A+ 9.6 169/167 120 46 ERST30C-***D A++ A+ 9.0 135/134 120 40 59 A++ A+ 9.6 169/167 120 46 ERST30C-***D A++ A+ A 9.0 135/134 120 40 59 A++ A+ A 9.6 169/167 120 46 ERST30C-***D A++ A+ A 9.0 133/132 120 40 59 A++ A+ A 9.6 169/167 120 46	E	EHST30C-***D	A++	Α	10.0	130/129	120	40	60	A++	Α	10.6	167/165	120	40	60
ERSC.***D	E	ERST30C-***D	A++	Α	10.0	132/132	120	40	60	A++	Α	10.6	170/169	120	40	60
PUHZ-SW120V/YHA(-BS) EHST20C-***D A++ A+ A+ 12.1 125/125 138 40 72 A++ A+ 12.9 162/162 138 40 ERST20C-***D A++ A+ 12.1 127/127 138 40 72 A++ A+ 12.9 164/164 138 40 EHST30C-***D A++ A+ A+ 12.1 125/125 118 40 72 A++ A+ A+ 12.9 164/164 138 40 ERST30C-***D A++ A+ A+ A+ A+ A+ A+ A+ A+	E	EHSC-***D	A++	-	10.0	130/129	-	40	60	A++	-	10.6	167/165	-	40	60
ERST20C-***D A++ A+ 12.1 127/127 138 40 72 A++ A+ 12.9 164/164 138 40 EHST30C-***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 138 40 ERST30C-***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 164/164 118 40 EHSC-***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 164/164 118 40 ERSC-***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 164/164 - 40 ERSC-***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 164/164 - 40 ERSC-***D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 ERSE-***D A++ - 13.5 126 - 45 78 A++ - 15.3 151 - 45 ERSE-***D A++ - 15.5 127 - 45 78 A++ - 15.3 152 - 45 ERSE-**D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 ERSE-**D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 ERSE-**D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 ERSE-**D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST20C-***D A++ A+ 9.0 133/132 120 40 59 A++ A+ 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40	E	ERSC-***D	A++	-	10.0	132/132	-	40	60	A++	-	10.6	170/169	-	40	60
EHST30C.***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 162/162 118 40 ERST30C.***D A++ A 12.1 127/127 118 40 72 A++ A 12.9 164/164 118 40 EHSC.***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 162/162 - 40 ERSC.***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 164/164 - 40 PUHZ-SW160YKA(-BS) EHSE.***D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 ERSE.***D A++ - 13.5 126 - 45 78 A++ - 15.3 152 - 45 EHSE.***D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 ERSE.***D A++ - 15.5 129 - 45 78 A++ - 17.3 147 - 45 ERSE.***D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 EHST20C.***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST20C.***D A++ A 9.0 135/134 145 40 59 A++ A 9.6 169/167 120 40 ERST30C.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 ERST30C.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 ERST30C.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 ERST30C.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40	/120V/YHA(-BS)	EHST20C-***D	A++	A+	12.1	125/125	138	40	72	A++	A+	12.9	162/162	138	40	72
ERST30C-***D A++ A 12.1 127/127 118 40 72 A++ A 12.9 164/164 118 40 EHSC-***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 162/162 - 40 ERSC-***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 164/164 - 40 PUHZ-SW160YKA(-BS) EHSE-***D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 ERSE-***D A++ - 15.5 127 - 45 78 A++ - 15.3 152 - 45 ERSE-***D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 ERSE-***D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 PUHZ-SHW80V/YAA(-BS) EHST20C-***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST30C-***D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40	E	ERST20C-***D	A++	A+	12.1	127/127	138	40	72	A++	A+	12.9	164/164	138	40	72
EHSC-***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 162/162 - 40 ERSC-***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 164/164 - 40 PUHZ-SW160YKA(-BS) EHSE-**D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 ERSE-**D A++ - 15.5 127 - 45 78 A++ - 15.3 152 - 45 ERSE-**D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 ERSE-**D A++ - 15.5 129 - 45 78 A++ - 17.3 147 - 45 ERSE-**D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 PUHZ-SHW80V/YAA(-BS) EHST20C-**D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST30C-**D A++ A 9.0 135/134 145 40 59 A++ A+ 9.6 169/167 120 40 ERST30C-**D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 ERST30C-**D A++ A 9.0 133/132 - 40 59 A++ A 9.6 169/167 - 40	E	EHST30C-***D	A++	Α	12.1	125/125	118	40	72	A++	Α	12.9	162/162	118	40	72
ERSC-***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 164/164 - 46 PUHZ-SW160YKA(-BS)	E	ERST30C-***D	A++	Α	12.1	127/127	118	40	72	A++	Α	12.9	164/164	118	40	72
PUHZ-SW160YKA(-BS) EHSE-***D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 PUHZ-SW200YKA(-BS) EHSE-***D A++ - 15.5 126 - 45 78 A++ - 15.3 152 - 45 PUHZ-SW200YKA(-BS) EHSE-***D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 ERSE-***D A++ - 17.3 148 - 46 PUHZ-SHW80V/YAA(-BS) EHST20C-***D A++ A+ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 172/172 145 40 EHST30C-***D A++ A+ A+ 9.0 135/134 145 40 59 A++ A+ A+ 9.6 169/167 120 40 ERST30C-***D A++ A+ A+ A+ B- BRST30C-***D A++ A+ A+ BRST30C-***D A++ BRST30C-***D A++ A+ BRST30C-***D A++ BRST30C-***D A++ A+ BRST30C-***D A++ BRST30C-***D A++ BRST30C-***D A++ BRST30C-***D A++ BRST30C-***D A++ BRST30C-***D A++ BRST30C-***D BRST30C-**D	E	EHSC-***D	A++	-	12.1	125/125	-	40	72	A++	-	12.9	162/162	-	40	72
ERSE-**D A++ - 13.5 126 - 45 78 A++ - 15.3 152 - 45 PUHZ-SW200YKA(-BS) EHSE-**D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 ERSE-**D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 PUHZ-SHW80V/YAA(-BS) EHST20C-**D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST20C-**D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 172/172 145 40 EHST30C-**D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 ERST30C-**D A++ A 9.0 133/132 - 40 59 A++ A 9.6 172/172 120 40	E	ERSC-***D	A++	-	12.1	127/127	-	40	72	A++	-	12.9	164/164	-	40	72
PUHZ-SW200YKA(-BS) EHSE-**D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 ERSE-***D A++ - 17.3 148 - 45 PUHZ-SHW80V/YAA(-BS) EHST20C-***D A++ A+ A+ BERST20C-***D A++ BERST20C-***D A++ BERST20C-***D A++ A+ BERST20C-***D A++ BERST20C-***D BERST20C-***D A++ BERST20C-***D BERST20C-**D BERST20C-**D BERST20C-**D BERST20C-**D BERST20C-**D BERST20C-**D BERST20C-**D BERST20C-**D BERST20C	/160YKA(-BS)	EHSE-***D	A++	-	13.5	125	-	45	78	A++	-	15.3	151	-	45	78
ERSE-***D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 PUHZ-SHW80V/YAA(-BS) EHST20C-***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST20C-***D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 172/172 145 40 EHST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40	E	ERSE-***D	A++	-	13.5	126	-	45	78	A++	-	15.3	152	-	45	78
PUHZ-SHW80V/YAA(-BS) EHST20C-***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 ERST20C-***D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 172/172 145 40 EHST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40	/200YKA(-BS)	EHSE-***D	A++	-	15.5	127	-	45	78	A++	-	17.3	147	-	45	78
ERST20C-***D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 172/172 145 40 EHST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40	E	ERSE-***D	A++	-	15.5	129	-	45	78	A++	-	17.3	148	-	45	78
EHST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40	W80V/YAA(-BS)	EHST20C-***D	A++	A+	9.0	133/132	145	40	59	A++	A+	9.6	169/167	145	40	59
ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40	E	ERST20C-***D	A++	A+	9.0	135/134	145	40	59	A++	A+	9.6	172/172	145	40	59
EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40	E	EHST30C-***D	A++	А	9.0	133/132	120	40	59	A++	А	9.6	169/167	120	40	59
	E	ERST30C-***D	A++	А	9.0	135/134	120	40	59	A++	Α	9.6	172/172	120	40	59
	E	EHSC-***D	A++	-	9.0	133/132	_	40	59	A++	-	9.6	169/167	-	40	59
ERSC-***D A++ - 9.0 135/134 - 40 59 A++ - 9.6 172/172 - 40	E	ERSC-***D	A++	-	9.0	135/134	-	40	59	A++	-	9.6	172/172	-	40	59
PUHZ-SHW112V/YAA(-BS) EHST20C-***D A++ A+ 12.7 135/135 145 40 60 A++ A+ 13.9 171/169 145 40	W112V/YAA(-BS)	EHST20C-***D	A++	A+	12.7	135/135	145	40	60	A++	A+	13.9	171/169	145	40	60
ERST20C-***D A++ A+ 12.7 137/137 145 40 60 A++ A+ 13.9 173/173 145 40	E	ERST20C-***D	A++	A ⁺	12.7	137/137	145	40	60	A++	A+	13.9	173/173	145	40	60
EHST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40	E	EHST30C-***D	A++	Α	12.7	135/135	120	40	60	A++	Α	13.9	171/169	120	40	60
ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40	E	ERST30C-***D	A++	А	12.7	137/137	120	40	60	A++	Α	13.9	173/173	120	40	60
EHSC-***D A++ - 12.7 135/135 - 40 60 A++ - 13.9 171/169 - 40	E	EHSC-***D	A++	-	12.7	135/135	-	40	60	A++	_	13.9	171/169	-	40	60
ERSC-***D A++ - 12.7 137/137 - 40 60 A++ - 13.9 173/173 - 40	E	ERSC-***D	A++	_	12.7	137/137	_	40	60	A++	_	13.9	173/173	-	40	60

All A⁺⁺ or Above!!

			For n	nedium-	temperatu	re applic	ation			For	low-ten	nperature	application	on	
				ø	S						s	v			
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	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	Sound power level Lwa indoor	Sound power level Lwa outdoor
				kW	%	%	dB	dB			kW	%	%	dB	dB
PUHZ-SHW140YHA	EHST20C-***D	A++	A+	15.8	127	138	40	70	A++	A+	17.0	163	138	40	70
	ERST20C-***D	A++	A+	15.8	128	138	40	70	A++	A+	17.0	165	138	40	70
	EHST30C-***D	A++	Α	15.8	127	118	40	70	A++	Α	17.0	163	118	40	70
	ERST30C-***D	A++	Α	15.8	128	118	40	70	A++	Α	17.0	165	118	40	70
	EHSC-***D	A++	-	15.8	127	-	40	70	A++	-	17.0	163	-	40	70
	ERSC-***D	A++	-	15.8	128	-	40	70	A++	-	17.0	165	-	40	70
PUHZ-SHW230YKA2	EHSE-***D	A++	-	23.0	127	-	45	75	A++	-	25.0	164	-	45	75
	ERSE-***D	A++	-	23.0	128	-	45	75	A++	-	25.0	165	-	45	75
PUZ-WM50VHA(-BS)	EHPT17X-***D(W)	A++	A+	5.0	129	120	40	61	A+++	A+	5.0	183	120	40	61
	ERPT17X-***D(W)	A++	A+	5.0	133	120	40	61	A+++	A+	5.0	190	120	40	61
	EHPT20X-***D(W)	A++	A+	5.0	129	135	40	61	A+++	A+	5.0	183	135	40	61
	ERPT20X-***D(W)	A++	A+	5.0	133	135	40	61	A+++	A+	5.0	190	135	40	61
	EHPX-***D	A++	-	5.0	129	-	40	61	A+++	-	5.0	183	-	40	61
	ERPX-***D	A++	-	5.0	133	-	40	61	A+++	-	5.0	190	-	40	61
PUZ-WM60VAA(-BS)	EHPT17X-***D(W)	A++	A+	6.0	142	120	40	58	A+++	A+	6.0	190	120	40	58
	ERPT17X-***D(W)	A++	A+	6.0	145	120	40	58	A+++	A+	6.0	197	120	40	58
	EHPT20X-***D(W)	A++ A++	A+	6.0	142	145	40	58	A+++	A+	6.0	190	145	40	58
	ERPT20X-***D(W)	A++	A ⁺	6.0	145	145	40	58	A+++	A+	6.0	197	145	40	58
	EHPX-***D ERPX-***D	A++	_	6.0	142 145	-	40	58	A+++ A+++	_	6.0	190 197	_	40	58
PUZ-WM85V/YAA(-BS)	EHPT17X-***D(W)	A++	A+	8.5	139/138	120	40	58 58	A+++	A+	8.5	193/190	120	40	58 58
102 ************************************	ERPT17X-***D(W)	A++	A+	8.5	141/141	120	40	58	A+++	A+	8.5	197/197	120	40	58
	EHPT20X-***D(W)	A++	A+	8.5	139/138	145	40	58	A+++	A+	8.5	193/190	145	40	58
	ERPT20X-***D(W)	A++	A+	8.5	141/141	145	40	58	A+++	A+	8.5	197/197	145	40	58
	EHPT30X-***D(W)	A++	Α	8.5	139/138	120	40	58	A+++	Α	8.5	193/190	120	40	58
	ERPT30X-***D(W)	A++	Α	8.5	141/141	120	40	58	A+++	Α	8.5	197/197	120	40	58
	EHPX-***D	A++	-	8.5	139/138	_	40	58	A+++	_	8.5	193/190	-	40	58
	ERPX-***D	A++	-	8.5	141/141	_	40	58	A+++	_	8.5	197/197	-	40	58
PUZ-WM112V/YAA(-BS)	EHPT20X-***D(W)	A++	A+	10.0	134/133	148	40	60	A+++	A+	10.0	191/189	148	40	60
	ERPT20X-***D(W)	A++	A+	10.0	136/136	148	40	60	A+++	A+	10.0	195/195	148	40	60
	EHPT30X-***D(W)	A++	Α	10.0	134/133	120	40	60	A+++	Α	10.0	191/189	120	40	60
	ERPT30X-***D(W)	A++	Α	10.0	136/136	120	40	60	A+++	Α	10.0	195/195	120	40	60
	EHPX-***D	A++	-	10.0	134/133	-	40	60	A+++	-	10.0	191/189	-	40	60
	ERPX-***D	A++	-	10.0	136/136	-	40	60	A+++	-	10.0	195/195	-	40	60
PUZ-HWM140V/YHA(-BS)	EHPT20X-***D(W)	A++	A+	14.0	132/131	130	40	67	A+++	A+	14.0	176/175	130	40	67
	ERPT20X-***D(W)	A++	A+	14.0	133/133	130	40	67	A+++	A+	14.0	178/177	130	40	67
	EHPT30X-***D(W)	A++	Α	14.0	132/131	118	40	67	A+++	Α	14.0	176/175	118	40	67
	ERPT30X-***D(W)	A++	Α	14.0	133/133	118	40	67	A+++	Α	14.0	178/177	118	40	67
	EHPX-***D	A++	-	14.0	132/131	-	40	67	A+++	-	14.0	176/175	-	40	67
	ERPX-***D	A++	-	14.0	133/133	-	40	67	A+++	-	14.0	178/177	-	40	67
PUHZ-FRP71VHA2	EHST20C-***D	A+	A+	7.5	121	138	40	68	A++	A+	7.5	163	138	40	68
DUMAN DATO WATER WATER OF THE TOTAL OF THE T	EHSC-***D	A+	-	7.5	121	-	40	68	A++	-	7.5	163	-	40	68
PUMY-P112VKM5/YKM(E)4(-BS)	EHST20C-***D	A+	Α	11.2	121/121	106	40	69	A++	Α	11.2	168/168	106	40	69
DUMV DISEVIVATE VIVATE VI DO	EHSC-***D	A+	_	11.2	121/121	106	40	69	A++	_	11.2	168/168	106	40	69
PUMY-P125VKM5/YKM(E)4(-BS)	EHST20C-***D EHSC-***D	A+ A+	A _	11.2	121/121	106	40	69 69	A++ A++	A -	11.2	168/168 168/168	106	40	69
PUMY-P140VKM5/YKM(E)4(-BS)	EHSC-***D	A+	_ 	11.2	121/121	106	40	69	A++	_ A	11.2	168/168	106	40	69 69
1 O 1411-1 140 V IXIVIO/ 1 IXIVI(L/4(-D3)	EHSC-***D	A+	_	11.2	121/121	-	40	69	A++		11.2	168/168	-	40	69
Note: F**T17/20*-***D use "Load		Α.	_	11.2	121/121		40	09	I 4	_	11.2	100/108		40	09

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