









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

R32	INDOOR UI	NIT		OUTDOOR U	NIT				
			Packaged type	e Small capacity (Under 5kW)*	Medium capacity (6.0kW-11.2kW)*				
	Hydro box, cylinde	er unit	POWER INVERTER	PUZ-WM50	PUZ-WM60/85/112				
1	* / * /		Split type	Small capacity (Under 5kW)*	Medium capacity (6.0kW-14kW)*				
F Me		-			PUD-SHWM60/80/100/120/140				
			POWER INVERTER	8	PUD-SWM60/80/100/120				
			Eco Inverter	SUZ-SWM40/60	SUZ-SWM80				
			*Rated capacity is at conditions A2W35. (according to EN14511)						
R410A	INDOOR UI	NIT	OUTDOOR UNIT						
	Hydro box, cylinde	er unit	Split type	Medium capacity (7.5kW-14kW)*	Large capacity (≧16kW)*				
b M.				PUHZ-SHW80/112 PUHZ-SHW14	0 PUHZ:SHW230				
			POWER INVERTER	PUHZ-SW75/100 PUHZ-SW12C	PUHZ-SW160/200				
			*Rated capacity is	at conditions A2W35. (according to EN14511)	1				
Other A	TW-related system	Mr.SLIN	۸+	PUMY + ecodan	ecodan geodan				
		R410A		(R410A)	R32				
				0					

PUMY-P112/125/140

PUHZ-FRP71

EHGT17D-YM9ED

New Eco-design Directive

What is the ErP Directive?

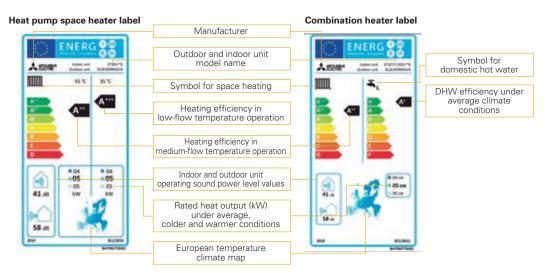
The Eco-design Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum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

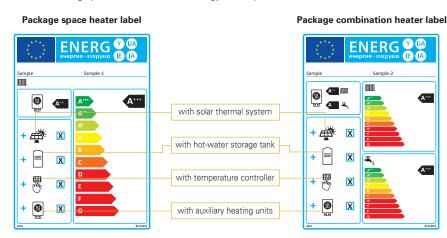
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from A⁺⁺⁺ to G.

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

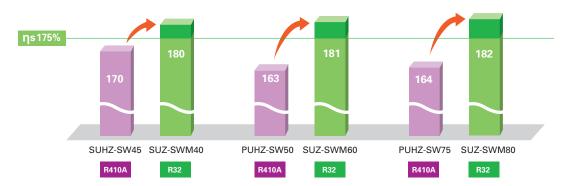
Energy Efficient and Environmentally Friendly Heating

- 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

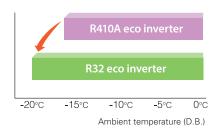
Compared with conventional outdoor unit, New R32 eco inverter achieved lower noise level, assuring the flexibility of installation in dense residential areas.



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

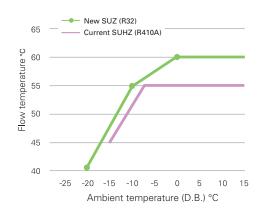
Guaranteed Operating Range Expansion

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

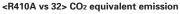


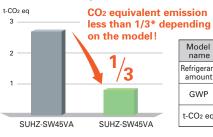
60°C Flow Temperature

Along with it's 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.



Reducing Refrigerant Amount





Model name	SUHZ- SW45VA	SUZ- SW40VA
Refrigerant amount	1.3kg	1.2kg
GWP	2088 (R410A)	675 (R32)
t-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

Stylish and Compact

The Stylish Design and Compact Size Harmonises Residential Application

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

High Performance

New Compressor

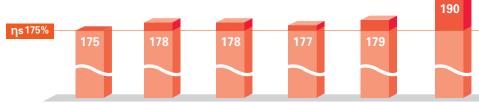


Compact
 High performance
 Flash injection*
 *ZUBADAN (SHWM) only

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

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

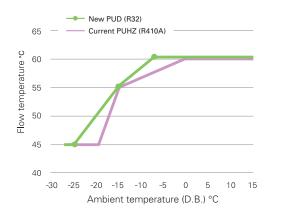
Heating



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

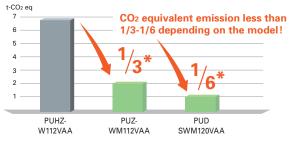
60°C Flow Temperature at Low Ambient Temperature

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



Reducing Refrigerant Amount

<R410A vs 32> CO₂ equivalent emission



193

191

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

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



100

480mm

1,050mm

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)

Fh Ambulance Siren PUD-S(H)WM60 achieved 120dB **55dB**(A) 2 100dB Vacuu Clean Ó. Norma 80dB Library interior 60dB 40dB 20dB

Enclosing Noise

Shutting Out Noise from Compressor

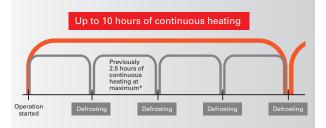
• The structure of double enclosing

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



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 defecting 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.

Blowing Air

To Reduce Fan Noise

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



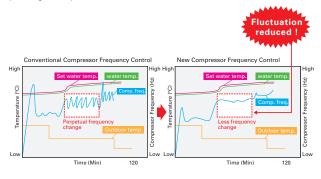
Avoiding Vibration and Resonance

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



New Compressor Frequency Control

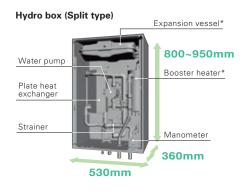
By reducing frequency changes (from 17 to 4 times per hour), hunting is prevented. Reducing fluctuation improves efficiency and prolongs compressor life.



New D generation Indoor Unit

New All-in-one Compact Indoor Unit

- All-in-one: Key functional components are incorporated
- Compact cylinder unit: 1,400~2,050mm in height
- Compact hydro box: 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)





New 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 hydro box and a reversible cylinder unit are available.

Hydro box









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)

New Reversible Models (for heating/cooling)

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

Reversible models are now available for both hydro box 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 Reversibel 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.



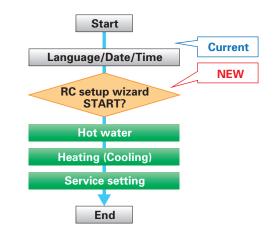
Easy Adjustment

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



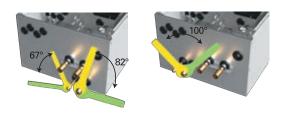
Initial Setting Wizard

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.



Hydro Box 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.

Operation Data Monitoring

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

	,		5						
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 傋	60 °C	56°C	54°C	15L					
9:40 👗	59°C	55°C	52°C	15L					
i	•			(1/5)					

New 2 Zone Kit

 You can sellect 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), nwh [%] 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.

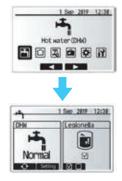
Excellent DHW efficien

	170L	200L	300L	
	ባwh [%]	ባwh [%]	ባwh [%]	
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



Settings can l

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

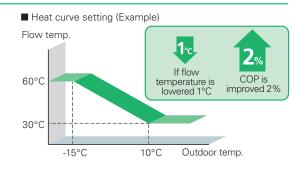
Unique Technology of ecodan

Auto Adaptation

Maximise Energy Savings While Retaining Comfort at All Times

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

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



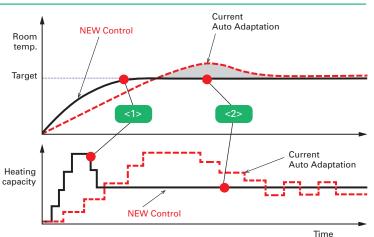
Auto Adaptation Improvement

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

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

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

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



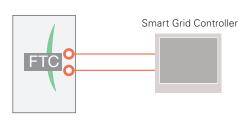
<1> Fast heating with improved accuracy in learning building heat load

<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, Hydro box 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.

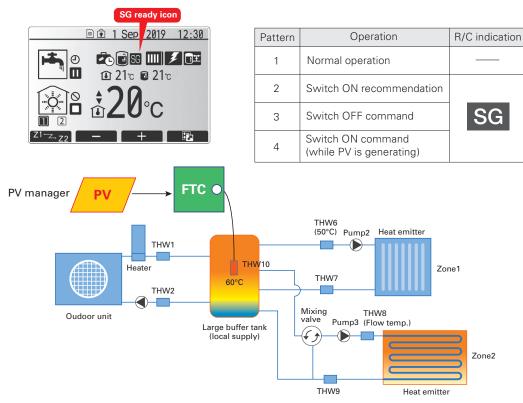
Pattern 4: Switch ON command

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,

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.





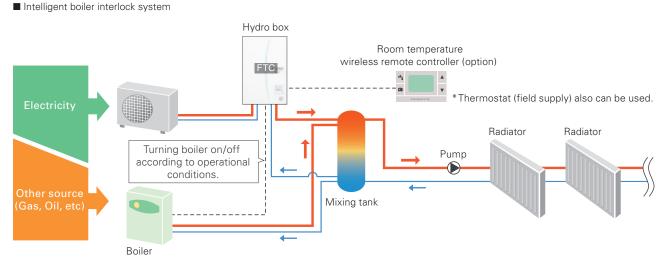
Intelligent Hybrid Control (boiler interlock) An Existing Boiler Can Be Used for Extra Heating Capacity in an Efficient Way

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

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

*Please see below "Heat source switchover".

Intelligent system combining a boiler with ecodan



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

Heat source switchover - Choose appropriate system based on needs

4 types of heat source switchover logic

- ① Switchover based on actual outdoor temperature
- Heat source switchover occurs when the outdoor temperature drops below a pre-set temperature.
- ② Switchover based on running cost
- Heat source switchover occurs by judging optimal operation based on running cost.

*Pre-registration of the energy price of electricity, and gas or oil per 1kWh is necessary.

- ③ Switchover based on CO₂ emission level
 - Heat source switchover occurs to minimise CO₂ emission.
 *Pre-registration of CO₂ emission amount from electricity and gas or oil is necessary.
- ④ Switchover can also be activated via external input
 - For example, the peak cut signal from electric power company.



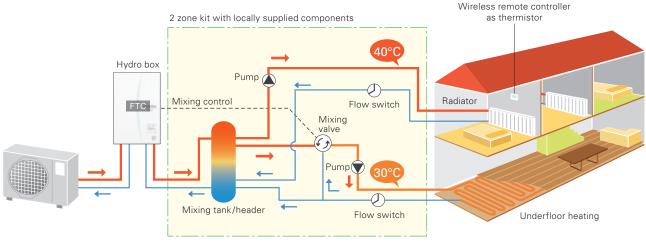
2 Zone Control (for heating/cooling)

Improved Simultaneous Control of Two Different Zones

Using ecodan, it is possible to control two different flow temperatures, thereby managing two different heating load requirements. The system can adjust and maintain two flow temperatures when different temperatures are required for different rooms; for example, controlling a flow temperature of 40°C for the bedroom radiators and another flow temperature of 30°C for the living room floor heating. Moreover, mixing valve control is advanced for improving zone 2 comfort by using heat storage in buffer tank. Also, new controller monitors the

temperature inside buffer tank and prioritizes using the heat inside the tank to avoid frequent on/off operation when using 2 zone control.

Two temperature zones



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

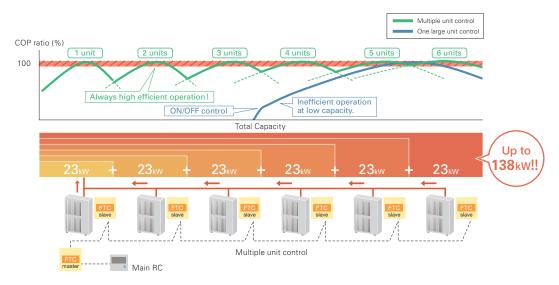
Multiple Unit Control

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
- Weekly timer
- Summer time setting
- Built-in room temperature sensors
- Hybrid control (boiler interlock)

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

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

Other features

- Heating capacity produced - 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.



- Floor drying mode – Holiday mode

- Legionella prevention
- Error codes



Main controller

PAR-WR51R-E (Option) Receiver



PAR-WT50R-E (Option) Wireless remote controller





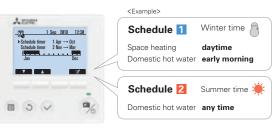
Two Separate Schedules **Pre-setting Two Different Schedules**



for Winter and Summer Seasons

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

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.





Settings can b

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

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.

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.

Hydro box operation panel



Data that can be stored

Operation data up to a month long can be stored on

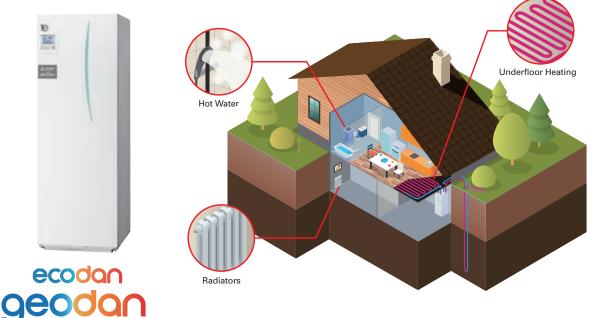
a single SD card

- 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.

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.



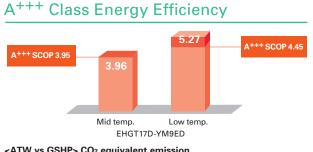
Performance / Function

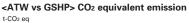
High Performance

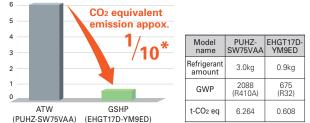
 \mbox{ErP} Lot 1 Compliant with highest seasonal space heating energy efficiency class $\mbox{A}^{+++}.$



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



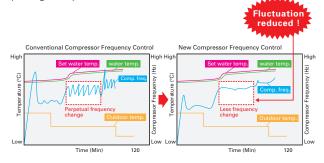




*Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088(R410A) and 675 (R32).

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)*. *B0W35 Rated condition



Silencing Noise

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

1st Cover

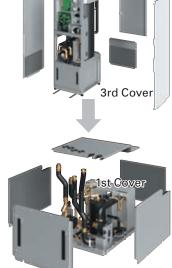
Compressor sound insulation box (with noise absorbing felt and damper)

2nd Cover

Module Box (with noise absorbing felt)

(with noise absorbing felt)

3rd Cover Outside panel



2nd Cover

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)

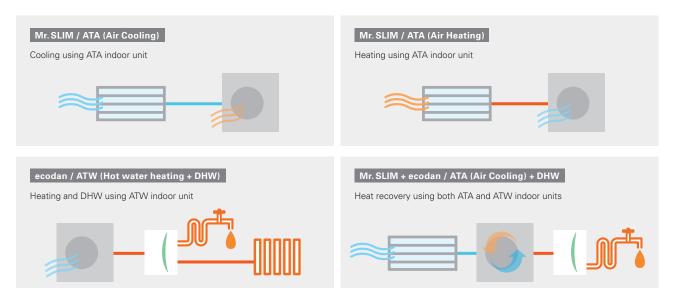
Mr. SLIM for Air-to-Air

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

Indoor	unit				PLA-ZM71EA	PKA-M71KAL	PCA-M71KA	PSA-RP71KA	PEAD-M71JA	PEAD-M71JA
Outdoor unit Refrigerant					PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VH
					R410A*1					
Powers	supply	Outdoor (V / P	Phase / Hz)				230 / Si	ngle / 50		
Air-to-Air		Capacity	Rated	kW	7.1	7.1	7.1	7.1	7.1	7.1
(ATA)	5		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	2.10	2.04
		EER			3.77	3.67	3.67	3.30	3.38	3.48
		Design load		kW	7.1	7.1	7.1	7.1	7.1	7.1
		-	icity consumption *2	kWh/a	376	386	384	409	444	427
		SEER *4		K VII) U	6.6	6.4	6.4	6.0	5.5	5.8
		Energy-efficiency class			A ⁺⁺	A ⁺⁺	A++	A+	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)	Tatalinnut	Rated	kW	2.11	2.29	2.29	2.42	2.11	2.11
		Total input	nated	ĸvv						
		COP			3.80	3.50	3.50	3.30	3.79	3.79
		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)
			ting capacity	kW	0	0	0	0	0	0
		L	tricity consumption *2	kWh/a	1,509	1,564	1,556	1,699	1,791	1,791
		SCOP *4			4.3	4.2	4.2	3.8	3.8	3.8
			Energy-efficiency class		A+	A ⁺	A ⁺	A	A	A
r-to-Water	Nomina	flow rate (for	heating)	L/min			22	.90		
TW)	Heating *5	*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	2.15	2.13
	cooling &		СОР		7.95	7.82	7.74	7.48	7.02	7.09
	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	3.22	3.20
			COP		5.42	5.37	5.33	5.21	5.00	5.03
	ATW ind	loor unit				Cyl	linder unit or Hydro I	box (see previous pa	ge)	1
outdoo	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		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 porter		dB(A)						
		Sound power level (PWL)	Cooling		67	67	67	67	67	67
			Heat recovery	dB(A)	67	67	67		67	67
			ATA Heating	dB(A)	68	68	68	68	68	68
		0	ATW Heating	dB(A)	68	68	68	68	68	68
		Operating cur	rent (max)	A	19.0	19.0	19.0	19.0	19.0	19.0
		Breaker size		A	25	25	25	25	25	25
xt.pipi	ing	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
		Max. length	Out-In	m				- 30 (for ATW)		
		Max. height	Out-In	m	20	20	20	20	20	20
		ating range	Cooling *3	°C	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46
outdoo)))		Heating	°C	-20~+21	-20~+21	-20~+21	-20~+21	-20~+21	-20~+21
			ATW	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
Heat		Heat recovery	°C	+7~+46	+7~+46	+7~+46	+7~+46	+7~+46	+7~+46	

*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); 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

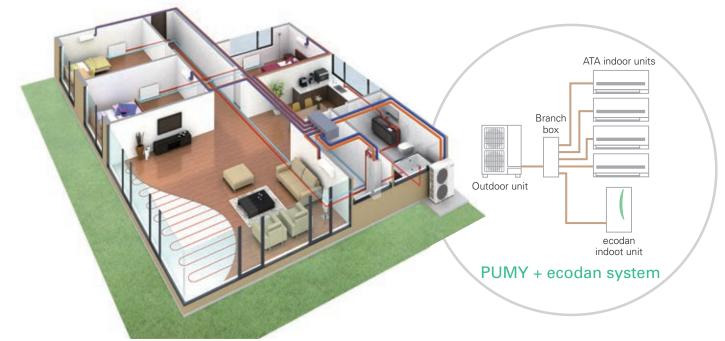
Air Conditioning and Hot Water Supply Matching the Needs of Each Room

All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating) ecodan for Air-to-Water PUMY for Air-to-Air PUMY utilises various indoor units, enabling the air conditioning or

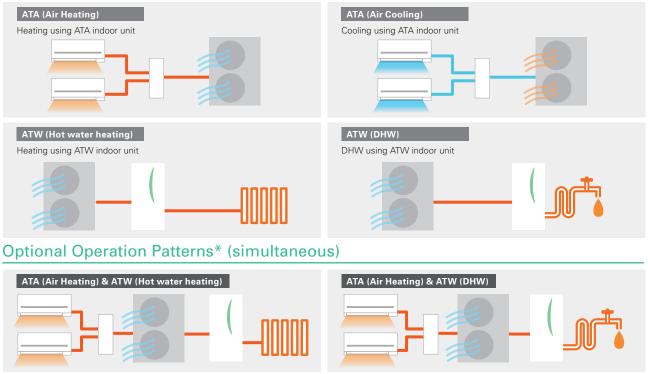
heating of multiple rooms, and controls each unit individually.

✓Domestic hot water (DHW) supply

✓Heating for multiple rooms



Main Operation Patterns

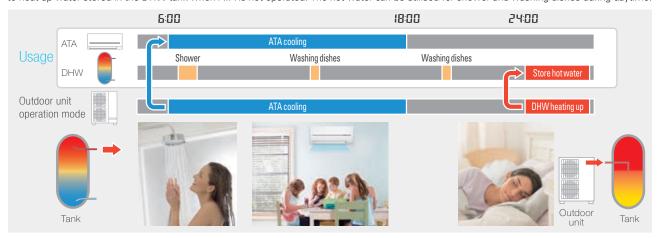


*When using optional simultaneous operation, there are some restrictions, such as connectable indoor units, operation range and DHW flow temp.

Usage Pattern All-in-one System Solution

Summer 2-in-1 Operation

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



Spring & Autumn 2-in-1 Operation

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



Winter ecodan

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



PUMY+ecodan

Model name	I					PUMY- P112VKM4(-BS)	PUMY- P125VKM4(-BS)	PUMY- P140VKM4(-BS)	PUMY- P112YKM(E)4(-BS)	PUMY- P125YKM(E)4(-BS)	PUMY- P140YKM(E)4(-BS		
Power suppl	У					1-phas	se 220 - 230 - 240	/, 50Hz	3-phas	se 380 - 400 - 415	/, 50Hz		
Air-to-Air	Cooling Capacity			kW	12.5	14.0	15.5	12.5	14.0	15.5			
(ATA)	(nominal)*1	Power input			kW	2.79	3.46	4.52	2.79	3.46	4.52		
		EER				4.48	4.05	3.43	4.48	4.05	3.43		
	Temp. range	Indoor temp.			W.B.			15 -	24°C				
	of cooling	Outdoor temp.	*2		D.B.			-5 -	52°C				
	Heating	Capacity			kW	14.0	16.0	18.0	14.0	16.0	18.0		
	(nominal)*1	Power input			kW	3.04	3.74	4.47	3.04	3.74	4.47		
		COP				4.61	4.28	4.03	4.61	4.28	4.03		
	Temp. range	Indoor temp.			W.B.			15 -	27°C				
	of heating	Outdoor temp.			D.B.			-20 -	15°C				
Air-to-Water	Nominal flow	/ rate (for heatin	g)		L/min			35	5.8				
(ATW)	Heating*3	A7W35	Capacity		kW			12	2.5				
			Power input		kW								
			COP					4.	08				
		A2W35	Capacity		kW	10.0							
			Power input		kW	3.50							
			COP			2.86							
	Guaranteed	ATW	DHW				-20 - +21°C						
	operating range					–20 - +35°C							
		ATA + ATW				7 - +21°C							
		ATA heating + ATW heating *4				-10 - +21°C							
	Maximum Ou	utlet water temp			°C	55							
Outdoor	Indoor unit	ATA Total capacity				50 to 130% of outdoor unit capacity							
unit	connectable	only	/ INIOUCI/	Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8		
			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		
		individual operation	ATA + ATW Total capacity							ST20C or EHSC) *			
			Model/Quantity	Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8		
			(including ATW)	Mixed system*12		15-140*5/10	15-140*5/10*6	15-140*5/10*6	15-140*5/10	15-140*5/10*6	15-140*5/10*6		
			Total capacity							ST20C or EHSC) *			
			Model/Quantity	ATA*12		15/1*8	15-25/2* ⁹	15-42*11/3*10	15/1*8	15-25/2* ⁹	15-42*11/3*10		
		operation		ATW					C or EHSC) / 1				
	· · · · · · · · · · · · · · · · · · ·		red in anechoic ro		dB <a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53		
			d in anechoic rooi		dB <a>	69 / 71	70 / 72	71/73	69 / 71	70 / 72	71/73		
	Refrigerant p	iping diameter		Liquid pipe	mm				flare				
		1		Gas pipe	mm	15.88 flare							
	Fan	Type × Quantit	у					Propelle					
		Airflow rate			m³/min			1					
					L/s	1,883							
					cfm	3,884							
		Motor output			kW				+ 0.074				
	Compressor	Type × Quantit	,					Scroll hermetic					
		Starting metho	d				1	Inve		1			
		Motor output			kW	2.9	3.5	3.9	2.9	3.5	3.9		
		ensions (H × W :	× D)		mm			1,338 × 1,05	0 × 330 (+40)				
	Weight				kg		122		Yk	KM: 125 / YKME: 1	36		

*1

	Indoor	Outdoor	Piping length	Level difference
Cooling	27°C DB / 19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB / 6°C WB	7.5m	0m

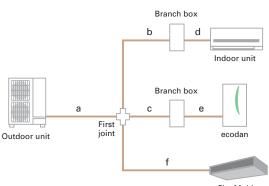
 *2 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM, PFFY-P20/25/32VLE(R)M, PEFY-P*VMA3 or M, S and P series indoor unit.
 *3 In the case of ATW single connection. Input to circulation pump is not included.
 *4 In the case of simultaneous operation of ATA heating and ATW heating, 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.

' Unity 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	



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

City Multi

PUMY+ecodan Compatibility Table

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

ATW branch box connection compatibility table

Branch box connection compatibility table

Series	Туре	Model name						Capacit	y				
Series	туре	Wodername	15	18	20	22	25	35	42	50	60	71	100
M series	Wall-mounted	MSZ-LN•VG											
		MSZ-AP•VG	•										
		MSZ-FH•VE2											
		MSZ-EF•VG											
		MSZ-SF•VA											
		MSZ-SF•VE3											
		MSZ-GF•VE2											
	Floor-standing	MFZ-KJ•VE2											
	1-way cassette	MLZ-KP•VF											
S series	Ceiling-concealed	SEZ-M•DA(L)											
	2×2 cassette	SLZ-M•FA											
P series	Ceiling-suspended	РСА-М•КА											
	4-way cassette	PLA-M•EA											
	Ceiling-concealed	PEAD-M•JA(L)											

LEV kit connection compatibility table

Series	1011	Mar dal and a					Cap	acity				
Series	I/U type	Model name	15	18	20	22	25	35	42	50	60	71
M series	Wall-mounted	MSZ-LN•VG										
		MSZ-AP•VG										
		MSZ-FH•VE2										
		MSZ-EF•VG										
		MSZ-SF•VA										
		MSZ-SF•VE3										
	Floor-standing	MFZ-KJ•VE2										

Connectable indoor unit capacity

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

Outdoor capacity 12.5kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	Connectable AT	A indoor ur	it total capacity: Max.16.2kW (130%)
Outdoor capacity 14.0kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	Connectable AT	A indoor ur	it total capacity: Max.18.2kW (130%)
Outdoor capacity 15.5kW	-		
ATW indoor unit (Cylinder or Hydro box) 11.2kW	Connectable AT	A indoor ur	nit total capacity: Max.20.2kW (130%)
For simultaneous operation of ATA+ATW Max 100% of c	outdoor unit capaci	ty: ATA + A	TW (EHST20C or EHSC)
Outdoor capacity 12.5kW ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Max. 1.3kW *Exception	ally, one MS	Z-SF15VA or MSZ-AP15VF can be connected.
Outdoor capacity 14.0kW]	
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Max. 2.8kW	*Exception	nally, two units of MSZ-SF15VA or MSZ-AP15VF can be connected.
Outdoor capacity 15.5kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Ma	ax. 4.3kW	*Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be connected.

Indoor unit

Cylinder unit (Heating only)

<cylinder th="" u<=""><th>ınit (Heati</th><th>ng only)></th><th></th><th></th><th></th><th></th><th></th><th>S</th><th>mall capacity</th><th>/</th><th></th><th></th><th></th><th></th></cylinder>	ınit (Heati	ng only)>						S	mall capacity	/				
Model name	е			EHST17D- VM2D	EHST20D- MED	EHST20D- VM2D	EHST20D- VM6D	EHST20D- YM9D	EHST20D- YM9ED	EHST20D- TM9D	EHST30D- MED	EHST30D- VM6ED	EHST30D- YM9ED	EHST30D- TM9ED
		Туре							Heating on l y					
		Expansion vessel		V	-	V	V	V	-	V	-	-	-	-
		Booster heater (2/6/9 kW)		V	-	V	レ	V	レ	V	-	V	V	V
Dimensions		HxWxD	mm	1400×595 ×680			1600×5	95x680				2050×5	95×680	
Weight (emp	pty)		kg	93	98	104	105	106	101	106	113	115	116	116
Control Boa	rd Power su	ıpply (Phase / V / Hz)		~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	~/N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz
Heater	Booster	Power supply (Phase / V / Hz)		~ /N,230V, 50Hz	—	~ /N,230V, 50Hz	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz	3 ~ ,400V, 50Hz	3 ~ ,230V, 50Hz	-	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz	3 ~ ,230V, 50Hz
	heater	Capacity	kW	2	—	2	2+4	3+6	3+6	3+6	-	2+4	3+6	3+6
		Current	A	9	—	9	26	13	13	23	-	26	13	23
		Breaker size	A	16	-	16	32	16	16	32	-	32	16	32
Domestic hot water tank	Volume / I	Material	L/-	170 / Stainless steel			200 / Stain	less steel				300 / Stai	nless steel	
Guranteed	Ambient		°C					0	- 35 (≦80%F	(H)				
operating range *1	Outdoor	Heating	°C					See ou	itdoor unit sp	ec table				
range i		Cooling	°C						-					
Target	Heating	Room temperature	°C						10 - 30					
temperature range		Flow temperature	°C						20 - 60					
range	Coolimg	Room temperature	°C						-					
		Flow temperature	°C						-					
DHW tank		Max. hot water temperature	°C	70	*2			70			*2		70	
performance	e	Water heater energy efficiency	y class A ⁺ A - A ⁺											
Sound press	sure level (F	PWL)	dB (A)						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 u	unit (Heati	ng only)>						Medium	capacity				
Model nam	e			EHST20C- MED	EHST20C- VM2D	EHST20C- VM6D	EHST20C- YM9D	EHST20C- YM9ED	EHST20C- TM9D	EHST30C- MED	EHST30C- VM6ED	EHST30C- YM9ED	EHST30C TM9ED
		Туре						Heatir	ng on l y				
		Expansion vessel		-	V	V	V	-	V	-	-	-	-
		Booster heater (2/6/9 kW)		-	V	V	V	V	V	-	V	V	レ
Dimensions	3	HxWxD	mm				1600x5	95x680			2050x5	95x680	
Weight (em	pty)		kg	106	113	114	115	109	115	118	120	121	121
Control Boa	ard Power su	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	A	-	9	26	13	13	23	-	26	13	23
		Breaker size	A	-	16	32	16	16	32	-	32	16	32
Domestic hot water tank	Volume / I	Material	L/-			200 / Stai	nless steel				300 / Stai	nless steel	
Guranteed	Ambient		°C					0 - 35 (≦	80%RH)				
operating range *1	Outdoor	Heating	°C				S	ee outdoor ι	init spec tab	e			
range " i		Cooling	°C					-	-				
Target	Heating	Room temperature	°C					10 -	- 30				
temperature range		Flow temperature	°C					20 -	- 60				
range	Coolimg	Room temperature	°C					-	-				
		Flow temperature	°C					-	-				
DHW tank		Max. hot water temperature	°C	*2			70			*2		70	
performanc	e	Water heater energy efficiency	/ class			A					A	A	
Sound pres	sure level (F	PWL)	dB (A)					4	0				

*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.

<hydro bo<="" th=""><th>x (Heating</th><th>only)></th><th></th><th></th><th></th><th>Small o</th><th>apacity</th><th></th><th></th><th></th><th></th><th>Medium</th><th>n capacity</th><th></th><th></th><th>Large o</th><th>capacity</th></hydro>	x (Heating	only)>				Small o	apacity					Medium	n capacity			Large o	capacity
Model nam	e			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- YM9ED	EHSE- MED
		Туре								Heatin	g only						
		Expansion vessel		-	V	V	V	-	V	-	V	V	V	-	V	-	-
		Booster heater (2/6/9 kW)		-	V	V	V	V	V	-	V	V	V	V	V	V	-
Dimensions	3	HxWxD	mm						800x5	30×360						950×60	00×360
Weight (em	pty)		kg	36	43	44	44	40	44	40	47	48	48	43	48	63	61
Control Boa	ard Power su	upply (Phase / V / Hz)		~ /N,230V, 50Hz	~/N,230V, 50Hz	~/N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230\ 50Hz									
Heater	Booster	Power supply (V / Phase / Hz)		-	~ /N,230V, 50Hz	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz	3~,400V, 50Hz	3 ~ ,230V, 50Hz	-	~ /N,230V, 50Hz	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz	3 ~ ,400V, 50Hz	3 ~ ,230V, 50Hz	3~,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	A	-	9	26	13	13	23	-	9	26	13	13	23	13	-
		Breaker size	A	-	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 u	init spec ta	able					-
range		Cooling	°C							-	-						
Target	Heating	Room temperature	°C							10	- 30						
temperature range		Flow temperature	°C							20	- 60						-
range	Coolimg	Room temperature	°C							-	-						
		Flow temperature	°C							-	-						
Sound pres	sure level (F	PWL)	dB (A)			4	1					4	10			4	45

*1 The indoor environment must be frost-free.

Indoor unit

<cylinder th="" u<=""><th>unit (Reve</th><th>ersible)></th><th></th><th></th><th>Small capacity</th><th></th><th>Medium</th><th>capacity</th></cylinder>	unit (Reve	ersible)>			Small capacity		Medium	capacity		
Model nam	е			ERST17D-VM2D	ERST20D-VM2D	ERST30D-VM2ED	ERST20C-VM2D	ERST30C-VM2ED		
		Туре				Heating and Cooling				
		Expansion vessel		V	V		V	-		
		Booster heater (2/6/9 kW)		V	V	L	V	V		
Dimensions	5	HxWxD	mm	1400x595x680	1600x595x680	2050×595×680	1600x595x680	2050x595x680		
Weight (em	ipty)		kg	93	104	114	113	120		
Control Boa	ard Power s	upply (Phase / V / Hz)		\sim /N, 230V, 50Hz	\sim /N, 230V, 50Hz	~ /N, 230V, 50Hz	~/N, 230V, 50Hz	~ /N, 230V, 50Hz		
Heater	Booster	Power supply (V / Phase / Hz)		\sim /N, 230V, 50Hz	\sim /N, 230V, 50Hz	~/N, 230V, 50Hz	~/N, 230V, 50Hz	~ /N, 230V, 50Hz		
	heater	Capacity	kW	2	2	2	2	2		
		Current	А	9	9	9	9	9		
		Breaker size	А	16	16	16	16	16		
Domestic hot water tank	Volume / I	Material	L/-	170 / Stainless steel	200 / Stainless steel	300 / Stainless steel	200 / Stainless steel	300 / Stainless steel		
Guranteed	Ambient		°C			0 - 35 (≦80%RH)				
operating range *1	Outdoor	Heating	°C			See outdoor unit spec table	9			
range " i		Cooling	°C		5	See outdoor unit spec table	*2			
Target	Heating	Room temperature	°C			10 - 30				
temperature range		Flow temperature	°C			20 - 60				
range	e Cooling Room temperature			-						
	Flow temperature					5 - 25				
DHW tank	ormance					70				
performanc	e	Water heater energy efficiency	y class A ⁺ A ⁺ A ⁺ A - A ⁺ A ⁺ A							
Sound pres	sure level (PWL)	dB (A)		41			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.

<hydro bo<="" th=""><th>x (Reversi</th><th>ible)></th><th></th><th>Small o</th><th>capacity</th><th>Medium</th><th>capacity</th><th>Large o</th><th>apacity</th></hydro>	x (Reversi	ible)>		Small o	capacity	Medium	capacity	Large o	apacity
Model nam	е			ERSD-MED	ERSD-VM2D	ERSC-MED	ERSC-VM2D	ERSE-YM9ED	ERSE-MED
		Туре				Heating	g only		
		Expansion vessel		-	L	-	V	-	-
		Booster heater (2/6/9 kW)		-	L	-	V	V	-
Dimensions	3	HxWxD	mm		800×5	30x360		950×6	00x360
Weight (em	pty)		kg	38	44	40	47	64	62
Control Boa	ard Power s	upp l y (Phase / V / Hz)		\sim /N, 230V, 50Hz	~ /N, 230V, 50Hz	\sim /N, 230V, 50Hz	\sim /N, 230V, 50Hz	~ /N, 230V, 50Hz	\sim /N, 230V, 50Hz
Heater	Booster	Power supply (V / Phase / Hz)		-	~ /N, 230V, 50Hz	-	\sim /N, 230V, 50Hz	$3\sim$, 400V, 50Hz	-
	heater	Capacity	kW	-	2	-	2	3+6	-
		Current	А	-	9	-	9	13	-
		Breaker size	Α	-	16	-	16	16	-
Guranteed	Ambient		°C			0 - 35 (≦	80%RH)		
operating	Outdoor	Heating	°C			See outdoor u	init spec table		
range *1		Cooling	°C			See outdoor ι	init spec tab l e		
Target	Heating	Room temperature	°C			10 -	- 30		
temperature		Flow temperature	°C			20 -	- 60		
range	Coolimg	Room temperature	°C			-	-		
		Flow temperature	°C			5-:	25		
Sound pres	sure level (l	PWL)	dB (A)	4	1		10	4	15

*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

Juluooi	unit				Eco Inverter	
Model name				SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA
Refrigerant					R32*1	
Dimensions		H×W×D	mm	880×840×330	880×840×330	880×840×330
Weight			kg	54	54	54
Power supply	/ (V / Phase / H	lz)		230 / 1-ph / 50	230 / 1-ph / 50	230 / 1-ph / 50
Heating	A7W35*2	Nominal	kW	4.0	6.0	7.5
		COP		5.20	4.86	4.70
	A2W35*2	Nominal	kW	4.0	5.0	6.5
		COP		3.90	3.33	3.40
Average clim		Class		A+++	A+++	A+++
outlet 35°C*3		η _s		180	181	182
Average clim		Class		A++	A++	A++
outlet 55°C*3		η _s		129	130	131
DHW 200L(L)		Class		A+	A+	A+
(Average clin	nate)*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		A	13.9	13.9	13.9
Breaker size			A	16	16	16
Piping	Diameter	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7	6.35 / 12.7
	Length Out-		m	5-30	5-30	5-30
	Height	Out-In	m	Max 30	Max 30	Max 30
Guaranteed	Guaranteed Heating		°C	-20°C~24°C	-20°C~24°C	-20°C~24°C
Operating Range	perating DHW		°C	-20°C~35°C	-20°C~35°C	-20°C~35°C
	Cooling		°C	10°C~46°C	10°C~46°C	10°C~46°C

Outdoor unit

Outdoor	unit				Power Inverter	r, Heating only			ZUB	ADAN, Heating	only	
Model name				PUD- SWM60VAA	PUD- SWM80V/YAA	PUD- SWM100V/YAA	PUD- SWM120V/YAA	PUD- SHWM60VAA	PUD- SHWM80V/YAA	PUD- SHWM100V/YAA	PUD- SHWM120V/YAA	PUD- SHWM140V/YAA
Refrigerant								R32* ¹				
Dimensions		H×W×D	mm	1020×1050×480	1020×1050×480	1020×1050×480	1020×1050×480	1020×1050×480	1020×1050×480	1020×1050×480	1020×1050×480	1020×1050×480
Weight			kg	101	101/114	105/118	105/118	102	102/115	108/121	108/121	110/122
Power supply	y (V / Phase / H	z)					VAA: 230 / 1	-ph / 50, YAA: 40	0 / 3-ph / 50			
Heating	A7W35*2	Nominal	kW	5.0	6.0	8.0	10.0	5.0	6.0	8.0	10.0	12.0
		COP		4.76	4.76	4.95	4.70	4.94	5.00	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 clim		Class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
outlet 35°C*3	3	ηs		175	178/176	178/177	177/176	178	181/179	180/178	179/177	179/177
Average clim		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	ge climate)*4	ηwh		148/121	148/121	148/121	148/121	148/121	148/121	148/121	148/121	145/121
Max outlet w	ater temperatu	ure (°C)		60	60	60	60	60	60	60	60	60
PWL (Heating	g)* ⁵		dB(A)	55	56	59	60	55	56	59	60	62
Max operatir	ng current		А	16.5	22/8	26/10	28/12	16.5	22/8	26/10	28/12	35/12
Breaker size			А	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 Operating	Heating		°C	–25°C~24°C	–25°C~24°C	–25°C~24°C	–25°C~24°C	–28°C~24°C	–28°C~24°C	–28°C~24°C	–28°C~24°C	–28°C~24°C
Range	DHW		°C	–25°C~35°C	–25°C~35°C	–25°C~35°C	–25°C~35°C	–28°C~35°C	–28°C~35°C	–28°C~35°C	–28°C~35°C	–28°C~35°C

*1 Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 us 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)* BADAN PUD-SHWM60/80/100/120/140 PUD-SWM60/80/100/120 Eco Inverter SUZ-SWM40/60 SUZ-SWM80



Outdoor unit

Juluooi	um					Power Inverter		
Model name				PUHZ- SW75V/YAA(-BS)	PUHZ- SW100V/YAA(-BS)	PUHZ- SW120V/YHA(-BS)	PUHZ- SW160YKA(-BS)	PUHZ- SW200YKA(-BS)
Refrigerant						R410A*1		
Dimensions		H×W×D	mm	1020×1050×480	1020×1050×480	1350×950×330	1338×1050×330	1338×1050×330
Weight			kg	92/104	114/126	118/130	136	136
Power supply	y (V / Phase / H	z)			VAA, VHA: 23	80 / 1-ph / 50, YAA, YHA, YKA:	400 / 3-ph / 50	
Heating	A7W35*2	Nominal	kW	8.0	11.2	16.0	22.0	25.0
		COP		4.40	4.46	4.10	4.20	4.00
	A2W35*2	Nominal	kW	7.5	10.0	12.0	16.0	20.0
		COP		3.40	3.32	3.24	3.11	2.80
Average clim		Class		A++	A++	A++	A++	A++
outlet 35°C*3	3	η _s		162/160	167/165	162/162	161	163
Average clim		Class		A++	A++	A++	A++	A++
outlet 55°C*3	5	ηs		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	ire (°C)		60	60	60	-	-
Cooling	A35W7*2	Nominal	kW	7.1	10.0	12.5	16.0	20.0
		EER		2.70	2.83	2.32	2.76	2.25
	A35W18*2	Nominal	kW	7.1	10.0	14.0	18.0	22.0
		EER		4.43	4.47	4.08	4.56	4.1
PWL (Heating	g)*5		dB(A)	58	60	72	78	78
Max operatir	ng current		Α	22.0/11.5	28.0/12.0	29.5/13.0	19.0	21.0
Breaker size			Α	25/16	32/16	32/16	25	32
Piping	Diameter	Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/25.4	12.7/25.4
	Length Out-In		m	40	75	75	80	80
	Height	Out-In	m	10	10	30	30	30
Guaranteed	Heating		°C	-20°C~21°C	-20°C~21°C	-20°C~21°C	-20°C~21°C	-20°C~21°C
Operating Range	DHW		°C	-20°C~35°C	-20°C~35°C	–20°C~35°C	–20°C~35°C	–20°C~35°C
	Cooling		°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	–15°C~46°C	-15°C~46°C

					ZUB/	ADAN	
Model name				PUHZ- SHW80V/YAA(-BS)	PUHZ- SHW112V/YAA	PUHZ SHW140YHA	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	134	143
Power supply	/ (V / Phase / H	z)			VAA, VHA: 230 / 1-ph / 50, Y	AA, YHA, YKA: 400 / 3-ph / 50	
Heating	A7W35*2	Nominal	kW	8.0	11.2	14.0	23.0
		COP		4.65	4.40	4.22	3.65
	A2W35*2	Nominal	kW	8.0	11.2	14.0	23.0
		COP		3.55	3.22	2.96	2.37
Average clim	ate water	Class		A++	A++	A++	A++
outlet 35°C*3		η _s		169/167	171/169	163	164
Average clim		Class		A++	A++	A++	A++
outlet 55°C*3		η _s		133/132	135/135	127	127
	300L(XL) Load	Class		A+ / A	A+ / A	A+ / A	-
Profile (Averag	ge climate)*4	ηwh		145/120	145/120	138/118	-
Max outlet w	ater temperatu	ure (°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		A	22/13	28/13	13	20
Breaker size			A	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 us 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)
		PUHZ-SHW80/112AA	PuHZ-SHW230
	POWER INVERTER	PUHZ-SW75/100AA	PUHZ-SW160/200



Packaged Type Specifications

Indoor unit

<Cylinder unit (Heating only)>

type type Heating only Immersion heater - <	Model n	ame	Touring	<i>y</i> o <i>y</i> /		EHPT17X-	EHPT17X-	EHPT17X-	EHPT20X-	EHPT20X-	EHPT20X-	EHPT20X-	EHPT20X-	EHPT20X-	EHPT30X-	EHPT30X-
$ \begin{array}{ $			-			VM2D	VM6D	YM9D	MED	VM6D	YM9D	YM9ED	TM9D	MHEDW	MED	YM9ED
Expansion vesses Image: final state Image: final state <thimage: final="" state<="" th=""> Image: final state Image: fi</thimage:>											Heating only					
$ \begin{array}{ c c c c c } \hline \hline$											-					-
Dimensions HxWxD mm 1400×595-680 1600×595×680 2050×595×680 Weight (empty) L kg 85 86 87 93 101 102 96 102 90 106 N120 Control board power supply (Phase /V /Hz) -/N, 230, 50Hz							1		-					-	-	-
Weight (empty) kg 85 86 87 93 101 102 96 102 90 106 109 Control board power supply (Phase /V /Hz) -///.230/,50Hz -//												-				
Control board power supply (Phase / V / Hz) -/N, 230/, 50Hz	Dimensi	ons	H×V	V×D	mm		1400×595-680				1600×5	95×680			2050×5	95×680
Heater Power supply (Phase / V / Hz) ~/N, 230/, 50Hz ~/N, 230/, 50Hz ~/N, 230/, 50Hz ~/N, 230/, 50Hz 3~, 400/, 50Hz 3~, 400/, 50Hz 3~, 400/, 50Hz 3~, 400/, 50Hz 3~, 230/, 50Hz ~ - 3~, 400/, 50Hz 3~, 400/, 50Hz <t< td=""><td>Weight (</td><td>empty)</td><td></td><td></td><td>kg</td><td>85</td><td>86</td><td>87</td><td>93</td><td>101</td><td>102</td><td>96</td><td>102</td><td>90</td><td>106</td><td>109</td></t<>	Weight (empty)			kg	85	86	87	93	101	102	96	102	90	106	109
$ \begin{array}{ c c c c c c } \hline heater & & & & & & & & & & & & & & & & & & &$	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
$ \begin{array}{ $	Heater		Pow	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
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		heater*2	Cap	acity	kW	2	2+4	3+6	-	2+4	3+6	3+6	3+6	-	-	3+6
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $			Cur	rent	A	9	26	13	-	26	13	13	23	-	-	13
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Breaker size A			A	16	32	16	-	32	16	16	32	-	-	16
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					Hz)	-	-	-	-	-	-	-	-	~/N, 230V, 50Hz	-	-
$ \hline Price P$	heater Capacity kW		kW	-	-	-	-	-	-	-	-	3	-	-		
		Current A		A	-	-	-	-	-	-	-	-	13	-	-	
hot water tank Volume / Material L / - 110 / Stainless steel 200 / Stainless steel 300 / Stainless steel Guaranteed operating range*1 Ambient *C 035 (§80%RH) - - Outoor range*1 Heating *C - - - - Target temperature range Room temperature *C *C - - - Flow temperature range *C - - - - DHW tank performance Max. hot water temperature *C 70 *3 70 *3 70 DHW tank performance Max. hot water temperature *C 70 *3 70 *3 70			Brea	aker size	A	-	-	-	-	-	-	-	-	16	-	-
operating range*1 Outdoor Cooling Heating *C See outdoor unit spec table Target temperature range Room temperature Flow temperature *C - - Target temperature range Room temperature Flow temperature *C - - Flow temperature reformance Room temperature Flow temperature *C - - DHW tank performance Max. hot water temperature Water heater emergy efficiency class *C - -			olume /	Material	L/-	170	0 / Stainless st	eel			200 / Stai	nless steel			300 / Stai	nless steel
Prange*1 Outoon Treating C See Outoon in spectable Target temperature range Room temperature °C - - Target temperature range Room temperature °C - - Private Room temperature °C - - Private Room temperature °C - - DHW tank performance Max. hot water temperature °C 70 *3 70 *3 70	Guarant	eed A	mbient		°C					() - 35 (≦80%R⊦	1)				
Image: Coling Coling °C	operatin	g O	utdoor	Heating	°C					See ou	utdoor unit spe	ec table				
Imperature range Imperature Cooling °C 20-60 Rom temperature Flow temperature °C - PHW tank performance Max. hor water temperature Water heater emergy efficiency class °C 70 *3 70 *3 70	range- i			Cooling	°C	-										
range Provemberature °C 20-80 Cooling Room temperature °C Flow temperature °C DHW tank performance Max. hot water temperature °C 70 *3 70 Water heater emergy efficiency class A+	Target	Target Heating Room temperature °C			°C		10~30									
Cooling Flow temperature °C					°C		20~60									
DHW tank performance Max. hot water temperature °C 70 *3 70 *3 70 Water heater emergy efficiency class Water heater emergy efficiency class A+ A+ A+	range	Cooling Room temperature °C			°C						-					
performance Water heater emergy efficiency class A+		Flow temperature °C			°C						-					
Water nearer emergy enciency class	DHW tar				°C		70		*3			70			*3	70
	perform	ance W	/ater hea	ater emergy efficiency	/ class											
Sound pressure rever (r wit) ub (A) 40	Sound p	ressure lev	vel (PWI	L)	dB (A)						40					

Outdoor unit

*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
		[Тур	e			Heati	ng and co	oling	
			Imn	nersion heater		-	-	-	-	-
			Exp	ansion vessel		1	1	1	1	-
			Boo	ster heater		1 – 1 I			1	1
Dimensi	ons		H×V	V×D	mm	1400×595×680	1600×595×680			2050×595×680
Weight (empty)				kg	86	99 100 101			107
Control I	ooard p	ower	supp	ly (Phase / V / Hz)		~/N, 230V, 50Hz	~/N, 230V, 50Hz	~/	N, 230V, 5	0Hz
Heater	Boost		Pow	/er supply (Phase / V /	Hz)	~/N, 230V, 50Hz	-	~/	N, 230V, 5	0Hz
	heater	. [Сар	acity	kW	2	-	2	2+4	2
Current					Α	9	-	9	26	9
Breaker size					A	16	-	16	32	16
Immersion Power supply (Phase / V /					Hz)	-	-	-	-	-
heater*2 Capacity					kW	-	-	-	-	-
Current					A	-	-	-	-	-
			Brea	aker size	А	-	-	-	-	-
Domesti hot wate		Volu	me /	Material	L/-	170 / Stainless steel	200	/ Stainles	s steel	300 / Stainless steel
Guarante		Amb	ient		°C		0 - 35 (≦80%RH)			
operatin range*1	g	Outd	oor	Heating	°C		See out	loor unit	spec tabl	e
Cooling					°C		See outd	oor unit s	pec table	*3
Target		Heati	ing	Room temperature	°C			10~30		
tempera range	ture			Flow temperature	°C	20~60				
rungo	Cooling Room temperature					-				
				Flow temperature	°C			5~25		
	DHW tank Max. hot water temperature				°C	70				
perform	performance Water heater emergy efficiency				class	A+ A				А
Sound p	ressure	level	(PWI	L)	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 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.

<Hydro box (Heating only)>

			-							
Model n	ame					EHPX- MED	EHPX- VM2D	EHPX- VM6D	EHPX- YM9D	EHPX- YM9ED
			Тур	e			н	eating on	ly	
			Imn	nersion heater		-	-	-	-	-
			Exp	ansion vessel		-	1	1	1	-
			Boo	ster heater		- / / / /				
Dimensi	ons		H×V	V×D	mm		80)0×530×3	60	
Weight (empty)				kg	28 35 37 37 32				
Control I	board p	ower	supp	ly (Phase / V / Hz)		~/N, 230V, 50Hz				
Heater Booster Power supply (Phase / V /				Hz)	-	~/N, 23	0V, 50Hz	3~, 400	V, 50Hz	
heater Capacity				kW	-	2	2+4	3+6	3+6	
Current				А	-	9	26	13	13	
			Brea	aker size	А	-	16	32	16	16
Guarant		Amb	ient		°C	0~35 (≦80%RH)				
operatin range*1	g	Outd	oor	Heating	°C	See outdoor unit spec table				
range				Cooling	°C			-		
Target	Target Heating Room temperature				°C			10~30		
	emperature Flow temperature				°C			20~60		
range	Cooling Room temperature			Room temperature	°C	-				
	Flow temperature				°C	-				
Sound p	ound pressure level (PWL)			dB (A)			40			

Model name				PUZ- WM50VHA	PUZ- WM60VAA	PUZ- WM85V/YAA	PUZ- WM112V/YAA
Refrigerant					R3	2*1	
Dimensions		H×W×D	mm	943×950×330	1020×1050×480	1020×1050×480	1020×1050×480
Weight			kg	71	98	98/111	119/132
Power supply	(V / Phase /	Hz)		VHA • VAA:	230 / 1-ph / 50	YHA • YAA: 40	0 / 3-ph / 50
Heating	A7W35*2	Nominal	kW	5.0	6.0	8.5	11.2
		COP		5.00	5.06	4.80	4.70
	A2W35*2	Nominal	kW	5.0	6.0	8.5	11.2
	COP			3.70	3.75	3.51	3.44
	Average climate water Class			A+++	A+++	A+++	A+++
outlet 35°C*3			183	190	193/190	191/189	
Average climate water Class			A++	A++	A++	A++	
outlet 55°C*3 ns				129	142	139/138	134/133
DHW 200L(L) Load Class			A+	A+	A+	A+	
Profile (Averag	je climate)*4	ηwh		135	145	145	148
Max outlet w	ater tempera	ature (°C)		60	60	60	60
Cooling	A35W7*2	Nominal	kW	4.5	6.0	7.5	10.0
		EER		3.40	3.30	3.15	3.30
	A35W18*2	Nominal	kW	4.5	6.0	7.5	10.0
		EER		5.00	4.45	4.90	4.90
PWL (Heating)*5		dB(A)	61	58	58	60
Max operating current		Α	13.0	13.0	22.0/11.5	28.0/13.0	
Breaker size	Breaker size		A	16	16	25/16	32/16
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
Operating Range	DHW		°C	-20°C~35°C	-20°C~35°C	-20°C~35°C	–25°C~35°C
nange	Cooling		°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C

*1 Refrigerant leakage contribute to climate change. Refrigerant with lower global warming Nemgerant leakage contribute to climate change. Nemgerant 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 atomosphere, 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 us 675 in the IPCC 4th Assessment Report.

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

*3 ns 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)

*1 The indoor environment must be frost-free.

Optional Parts

Split type <Indoor unit>

Parts name	Model name	Cylinder	Hydrobox	Remarks
Wireless remote controller	PAR-WT50R-E	レ	~	
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	-	レ	For tank temp. (30m)
	PAC-TH012HT-E	V	V	For boiler and buffer (5m)
	PAC-TH012HTL-E	V	V	For boiler and buffer (30m)
Immersion heater	PAC-IH01V2-E	V	-	1Ph 1kW
	PAC-IH03V2-E	レ	-	1Ph 3kW
Joint pipe	PAC-SG72RJ-E	V	V	For PUHZ-SW75 Ø6.35 → Ø9.52
	PAC-SG73RJ-E	-	レ	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	レ	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-E	V	-	12L

<Outdoor unit>

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

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	レ	L	V	V	r	V	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	V	-	V
Attachement	PAC-SJ82AT-E	V	V	-	-	-	V	V	-	V
Drain socket*	PAC-SG61DS-E	V	V	V	V	V	V	V	-	-
Centralized drain pan*	PAC-SG64DP-E	-	-	V	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	V	V	-	-	-	-
	PAC-SJ83DP-E	V	V	-	-	-	V	V	-	-
Base heater	MAC-642BH-U1	-	-	-	-	-	-	-	-	-
Control/Service tool	PAC-SK52ST	レ	V	V	V	V	V	V	レ	V

*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

Parts name	Model name	Cylinder	Hydrobox	Remarks
Wireless remote controller	PAR-WT50R-E	<i>۲</i>	V	
Wireless receiver	PAR-WR51R-E	<i>۲</i>	V	
Thermistors	PAC-SE41TS-E	<i>۲</i>	V	For room temp.
	PAC-TH011-E	~	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	۲ ۲	V	For boiler and buffer (5m
	PAC-TH012HTL-E	V	V	For boiler and buffer (30)
Immersion heater	PAC-IH01V2-E	 (Except EHPT20X-MHEDW) 	-	1Ph 1kW
	PAC-IH03V2-E	 (Except EHPT20X-MHEDW) 	-	1Ph 3kW
EHPT accessories for UK	PAC-WK02UK-E	V	-	
Wi-Fi interface	MAC-567IF-E	V	V	
2 Zone kit	PAC-TZ02-E	V	V	
Expansion vessel	PAC-EVP12-E	V	-	12L

<Outdoor unit>

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

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

R32

Ground Source Heat Pump Specifications

				Specification with 38% propylene glyco
Model name				EHGT17D-YM9ED
Heating Capacity (Min-Max)				2.5-10.0kW
Heat Output B0/W35 (Rated)				5.0kW
COP B0/W35				4.58
SCOP (Average Climate)	Low Temp			5.27
	Rank			A+++
	ηs*2			203%
	Mid Temp			3.96
	Rank			A+++
	ηs*2			150%
Load Profile	ηwh			134%
Average Climate)*3	Rank			A+
Sound Power Level (Rated)*4	•			42dB(A)
Refrigerant /Amount				R32*1/0.9kg
GWP				608
Dimensions (HxWxD)				1,750mm×595mm×680mm
OHW Tank				170L
Veight				Unit 181kg
lectrical data		Heat pump	Power supply	3ph/400V/50Hz
			Max current	8A
			Breaker	16A
		Booster heater	Power supply	3ph/400V/50Hz
			Capacity	3kW+6kW
			Current	13A
			Breaker	16A
Connections	Water	Primary circuit	Diedkei	ø28mm
onnections	Water	DHW circuit		ø22mm
	Brine	Brine circuit		ø28mm
perating range	Heating	Room temperature		10~30°C
perating range	liteating	Flow temperature		20~60°C
	DHW	riow temperature		40~60°C
	Legionella preve	antion		60~70°C
	Legionella preve	Ambient		0~35°C
uaranteed operating range		Ambient		≦80%RH
		18/		
		Water outlet temperatu		20~60°C
		Brine inlet temperature		-8~30°C
		Min. brine outlet tempe		-12°C
low rate range		Primary circuit	Max.	27.7L/min
			Min.	7.1L/min
		Brine circuit	Max.	27.7L/min
			Min.	7.1L/min
leat source fluid type				29 WT% Bioethanol
				38 WT% Propylene glycol
				25 WT% Ethylene glycol

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

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	

D Generation

Combination Table

Split Indoor/outdoor unit

	Split indoor/outdoor unit combination			R32										R410A									ATA/ATW Hybrid system			
combination			P	owe	er in	vert	er			ZUI	BAD	AN		Po	owe	r in	vert	er	z	UB/	٨DA	N	Mr. SLIM+ PUMY			Y
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUD-SWM60VAA	PUD-SWM80V/YAA	PUD-SWM 100V/YAA	PUD-SWM120V/YAA	PUD-SHWM60VAA	PUD-SHWM80V/YAA	PUD-SHWM 100V/YAA	PUD-SHWM120V/YAA	PUD-SHWM 140V/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-P112V/YKM(E)4	PUMY-P125V/YKM(E)4	PUMY-P140V/YKM(E)4
Heating only	EHST17D-VM2D	•	•	•	•	•			•	•				•												
Cylinder	EHST20D-MED	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST20D-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST20D-VM6D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST20D-YM9D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST20D-YM9ED	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST20D-TM9D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHST30D-MED		-	•	•	•	•	•	•	•	•	•	•	•												
	EHST30D-VM6ED			•	•	•	•	•	•	•	•	•	•	•												
	EHST30D-YM9ED			•	•	•	•	•	•	•	•	•	•	•												
	EHST30D-TM9ED			•	•	•	•	•	•	•	•	•	•	•												
	EHST20C-MED			F	-	-		-		-	-	-	-	-	•	•			•	•	•		•			
	EHST20C-VM2D							_			_				•	•			•	•	•		•	•	•	•
	EHST20C-VM6D	-						_							•	•			•	•	•		•	•	-	•
	EHST20C-VM0D														•	•			•	•	•		•	•	•	•
															-	•			•	•	•		•	-	•	-
	EHST20C-YM9ED	-													•	-	-		-	-	-		•	•	•	•
	EHST20C-TM9D														•	•			•	•	•		•	•	•	
-	EHST30C-MED	-													•	•			•	•	•					
	EHST30C-VM6ED														•	•			•	•	•					
	EHST30C-YM9ED	_						_							•	•			•	•	•					
	EHST30C-TM9ED		-		-										•	•	-		•	•	•					
Reversible Cylinder	ERST17D-VM2D	•	•	•	•	•		-	•	•	-	-	_	•												
	ERST20D-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	ERST30D-VM2ED			•	•	•	•	•	•	•	•	•	•	•		_			_							
	ERST20C-VM2D	-		-											•	•			•	•	•					
	ERST30C-VM2ED														•	•			•	•	•					
Heating only Hydro box	EHSD-MED	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHSD-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHSD-VM6D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHSD-YM9D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHSD-YM9ED	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHSD-TM9D	•	•	•	•	•	•	•	•	•	•	•	•	•												
	EHSC-MED														•	•			•	•	•		•			
	EHSC-VM2D														•	•			•	•	•		٠	•	•	•
	EHSC-VM6D														•	•			•	•	•		•	•	•	•
	EHSC-YM9D														•	•			•	•	•		•	•	•	•
	EHSC-YM9ED														•	•			•	•	•		٠	•	•	•
	EHSC-TM9D														•	•			•	•	•		٠	•	•	•
	EHSE-YM9ED																•	•				•				
	EHSE-MED																•	•				٠				
Reversible	ERSD-MED	•	•	•	•	٠	•	•	•	•	•	•	•	•												
Hydro box	ERSD-VM2D	•	•	•	•	٠	•	•	•	•	•	•	•	•												
	ERSC-MED														•	•			•	•	•					
	ERSC-VM2D														•	•			•	•	•					
	ERSE-YM9ED																•	•				•				
	ERSE-MED										_						•	•				•				

Packaged indoor/outdoor unit

Packaged indo combination	R32								
combination		Power inverter							
		PUZ-WM50VHA	PUZ-WM60VAA	PUZ-WM85V/YAA	PUZ-WM112V/YAA				
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	30X-YM9ED 1 17X-VM2D 4 20X-VM2D 4 20X-MD 4 20X-VM6D 4 30X-VM2ED 4	•	•	•				
	ERPT30X-VM2ED			•	•				
Heating only	EHPX-VM2D	•	•	•	•				
Hydro box	EHPX-VM6D	•	•	•	•				
	EHPX-YM9D	•	•	•	•				
	EHPX-MED	•	•	•	•				
	EHPX-YM9ED	•	•	•	•				

MELCloud (Wi-Fi Interface) for ecodan

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

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

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

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



Key Control and Monitoring Features

- 1 Turn system on/off
- 2 See status of each of your heating zones & adjust set points
- $igodol{s}$ 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.



All A⁺⁺ or Above!!

			For n	nedium-	temperatu	re applic	ation			For	low-ten	nperature	applicatio	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
	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
	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	127	41	62	A+++	A+	7.1	182	127	41	62
	ERST30D-***D	A++	A+	7.1	133	127	41	62	A+++	A+	7.1	187	127	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	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++	A	6.0	130	121	41	55	A+++	A	6.0	175	140	41	55
	E*SD-***D	A++	-	6.0	130	-	41	55	A+++	_	6.0	175	-	41	55
	E*ST17D-***D	A++	A+	8.0	131/130	136	41	56	A+++	A+	8.0	178/176	136	41	56
100-300000071744	E*ST20D-***D	A++	A+	8.0	131/130	130	41	56	A+++	A+	8.0	178/176	130	41	56
	E*ST30D-***D	A++	A	8.0				56	A+++	A	8.0				
UD-SWM60VAA UD-SWM80V/YAA	E*SD-***D	A++	A		131/130	121	41		A+++	A	8.0	178/176 178/176	121	41	56
	E*ST20D-***D	A++	 	8.0 10.0	131/130 131/130	-	41	56	A+++	 A+	10.0		-	41	56
FOD-SWW100V/TAA	E*ST30D-***D	A++				148	41	59	A+++			178/177	148	41	59
			A	10.0	131/130	121	41	59		A	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	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	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	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

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

All A⁺⁺ or Above!!

			For n	nedium-	temperatu	re applic	ation			For	low-ten	nperature	applicatio	on	
				st	st						st	રા			
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
PUD-SHWM100V/YAA	E*ST20D-***D	A++	A+	10.0	136/135	148	41	59	A+++	A+	10.0	180/178	148	41	59
	E*ST30D-***D	A++	А	10.0	136/135	121	41	59	A+++	А	10.0	180/178	121	41	59
	E*SD-***D	A++	-	10.0	136/135	-	41	59	A+++	-	10.0	180/178	-	41	59
PUD-SHWM120V/YAA	E*ST20D-***D	A++	A+	12.0	135/134	148	41	60	A+++	A+	12.0	179/177	148	41	60
	E*ST30D-***D	A++	A	12.0	135/134	121	41	60	A+++	А	12.0	179/177	121	41	60
	E*SD-***D	A++	-	12.0	135/134	-	41	60	A+++	-	12.0	179/177	-	41	60
PUD-SHWM140V/YAA	E*ST20D-***D	A++	A+	14.0	134/134	145	41	62	A+++	A+	14.0	179/177	145	41	62
	E*ST30D-***D	A++	A	14.0	134/134	121	41	62	A+++	A	14.0	179/177	121	41	62
	E*SD-***D	A++	-	14.0	134/134	-	41	62	A+++	-	14.0	179/177	-	41	62
PUHZ-SW75V/YAA	EHST17D-***D	A++	A+	7.1	129	136	41	58	A++	A+	7.2	162	136	41	58
	ERST17D-***D	A++	A+	7.1	132	136	41	58	A++	A+	7.2	166	136	41	58
	EHST20D-***D	A++	A+	7.1	129	145	41	58	A++	A+	7.2	162	145	41	58
	ERST20D-***D	A++	A+	7.1	132	145	41	58	A++	A+	7.2	166	145	41	58
	EHST30D-***D	A++	A	7.1	129	120	41	58	A++	A	7.2	162	120	41	58
	ERST30D-***D	A++	A	7.1	132	120	41	58	A++	A	7.2	166	120	41	58
	EHSD-***D	A++	-	7.1	129	-	41	58	A++	-	7.2	162	-	41	58
	ERSD-***D	A++	-	7.1	132	-	41	58	A++	-	7.2	166	-	41	58
PUHZ-SW100V/YAA	EHST20C-***D	A++	A+	10.0	130	145	40	60	A++	A+	10.6	167	145	40	60
	ERST20C-***D	A++	A+	10.0	132	145	40	60	A++	A+	10.6	170	145	40	60
	EHST30C-***D	A++	A	10.0	130	120	40	60	A++	A	10.6	167	120	40	60
	ERST30C-***D	A++	A	10.0	132	120	40	60	A++	A	10.6	170	120	40	60
	EHSC-***D	A++	-	10.0	130	-	40	60	A++	-	10.6	167	-	40	60
	ERSC-***D	A++	-	10.0	132	-	40	60	A++	-	10.6	170	-	40	60
PUHZ-SW120V/YHA	EHST20C-***D ERST20C-***D	A++ A++	A+	12.0	125	138	40	72	A++	A+	12.9	162	138	40	72
		A++	A+	12.0	127	138	40	72	A++	A+	12.9	164	138	40	72
	EHST30C-***D ERST30C-***D	A++	A	12.0 12.0	125 127	118 118	40 40	72 72	A++ A++	A	12.9 12.9	162 164	118 118	40 40	72 72
	EHSC-***D	A++	-	12.0	127	-	40	72	A++	-	12.9	162	-	40	72
	ERSC-***D	A++	_	12.0	125	_	40	72	A++	_	12.9	164	_	40	72
PUHZ-SW160YKA	EHSE-***D	A++	_	13.5	127	_	45	78	A++	_	15.3	161	_	40	72
	ERSE-***D	A++	_	13.5	125	_	45	78	A++	_	15.3	163	-	45	78
PUHZ-SW200YKA	EHSE-***D	A++	_	15.5	127	_	45	78	A++	_	17.3	163	_	45	78
	ERSE-***D	A++	_	15.5	129	_	45	78	A++	_	17.3	164	_	45	78
PUHZ-SHW80V/YAA	EHST20C-***D	A++	A+	9.0	133	145	40	59	A++	A+	9.6	169	145	40	59
	ERST20C-***D	A++	A+	9.0	135	145	40	59	A++	A+	9.6	172	145	40	59
	EHST30C-***D	A++	А	9.0	133	120	40	59	A++	A	9.6	169	120	40	59
	ERST30C-***D	A++	A	9.0	135	120	40	59	A++	A	9.6	172	120	40	59
	EHSC-***D	A++	-	9.0	133	-	40	59	A++	-	9.6	169	-	40	59
	ERSC-***D	A++	-	9.0	135	_	40	59	A++	_	9.6	172	-	40	59
PUHZ-SHW112V/YAA	EHST20C-***D	A++	A+	12.7	135	145	40	60	A++	A+	13.9	171	145	40	60
	ERST20C-***D	A++	A+	12.7	137	145	40	60	A++	A+	13.9	173	145	40	60
	EHST30C-***D	A++	А	12.7	135	120	40	60	A++	А	13.9	171	120	40	60
	ERST30C-***D	A++	А	12.7	137	120	40	60	A++	А	13.9	173	120	40	60
	EHSC-***D	A++	-	12.7	135	-	40	60	A++	-	13.9	171	-	40	60
	ERSC-***D	A++	_	12.7	137	_	40	60	A++	_	13.9	173	_	40	60

			For n	nedium-	temperatu	re applic	ation	For low-temperature application								
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++	A+	15.8	127	118	40	70	A++	A+	17.0	163	118	40	70	
	ERST30C-***D	A++	A+	15.8	128	118	40	70	A++	A+	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	EHPT17X-***D	A++	A+	5.0	129	148	40	61	A+++	A+	5.0	183	148	40	61	
	ERPT17X-***D	A++	A+	5.0	133	148	40	61	A+++	A+	5.0	190	148	40	61	
	EHPT20X-***D	A++	A+	5.0	129	135	40	61	A+++	A+	5.0	183	135	40	61	
	ERPT20X-***D	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+++	-	6.0	190	-	40	61	
PUZ-WM60VAA	EHPT17X-***D	A++	A+	6.0	142	144	40	58	A+++	A+	6.0	190	144	40	58	
	ERPT17X-***D	A++	A+	6.0	145	144	40	58	A+++	A+	6.0	197	144	40	58	
	EHPT20X-***D	A++	A+	6.0	142	145	40	58	A+++	A+	6.0	190	145	40	58	
	ERPT20X-***D	A++	A+	6.0	145	145	40	58	A+++	A+	6.0	197	145	40	58	
	EHPX-***D	A++	-	6.0	142	-	40	58	A+++	-	6.0	190	-	40	58	
PUZ-WM85V/YAA	EHPT17X-***D	A++	A+	8.5	139/138	144	40	58	A+++	A+	8.5	193/190	144	40	58	
	ERPT17X-***D	A++	A+	8.5	141	144	40	58	A+++	A+	8.5	197	144	40	58	
	EHPT20X-***D	A++	A+	8.5	139/138	145	40	58	A+++	A+	8.5	193/190	145	40	58	
	ERPT20X-***D	A++	A+	8.5	141	145	40	58	A+++	A+	8.5	197	145	40	58	
	EHPT30X-***D	A++	А	8.5	139/138	120	40	58	A+++	А	8.5	193/190	120	40	58	
	ERPT30X-***D	A++	А	8.6	141	120	40	58	A+++	А	8.5	197	120	40	58	
	EHPX-***D	A++	-	8.5	139/138	-	40	58	A+++	-	8.5	193/190	-	40	58	
PUZ-WM112V/YAA	EHPT20X-***D	A++	A+	10.0	134/133	148	40	60	A+++	A+	10.0	191/189	148	40	60	
	ERPT20X-***D	A++	A+	10.0	136	148	40	60	A+++	A+	10.0	195	148	40	60	
	EHPT30X-***D	A++	А	10.0	134/133	120	40	60	A+++	А	10.0	191/189	120	40	60	
	ERPT30X-***D	A++	А	10.0	136	120	40	60	A+++	А	10.0	195	120	40	60	
	EHPX-***D	A++	-	10.0	134/133	-	40	60	A+++	-	10.0	191/189	-	40	60	
PUHZ-FRP71VHA2	EHST20C-***D	A+	A+	7.5	121	138	40	68	A++	A+	7.5	163	138	40	68	
	EHSC-***D	A+	-	7.5	121	-	40	68	A++	-	7.5	163	-	40	68	
PUMY-P112VKM3/YKM(E)4	EHST20C-***D	A+	A	11.2	121	106	40	69	A++	А	11.2	168	106	40	69	
	EHSC-***D	A+	-	11.2	121	-	40	69	A++	-	11.2	168	-	40	69	
PUMY-P125VKM3/YKM(E)4	EHST20C-***D	A+	A	11.2	121	106	40	69	A++	A	11.2	168	106	40	69	
	EHSC-***D	A+	-	11.2	121	-	40	69	A++	-	11.2	168	-	40	69	
PUMY-P140VKM3/YKM(E)4	EHST20C-***D	A+	A	11.2	121	106	40	69	A++	А	11.2	168	106	40	69	
	EHSC-***D	A+	-	11.2	121	-	40	69	A++	-	11.2	168	-	40	69	
Note: E**T17/20*-***D use "Load		1		1	1	1			1			1	1		<u> </u>	

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