

itsubishi lectric uality

SPLIT-TYPE AIR CONDITIONERS



Wrap Yourself in Comfort and Quiet
Eco-conscious Technologies from Japan

Air to Water Catalogue 2023



Environmental Sustainability Vision 2050

Environmental Declaration

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



Environmental Sustainability Vision 2 0 5 0

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

Three Environmental Action Guidelines

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

Challenge to develop business innovations for future generations

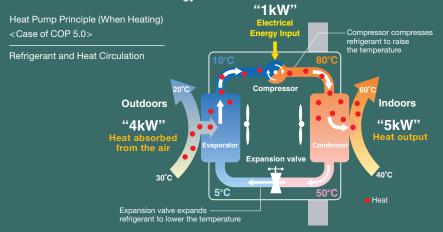
Publicize and share new values and lifestyles

Key Initiatives

- Climate Change Measures Resource Circulation
- Live in Harmony with
- Long-term Activities Innovation

- Understanding Needs Co-create and
- Disseminate New Values
- Live in Harmony with the Region

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



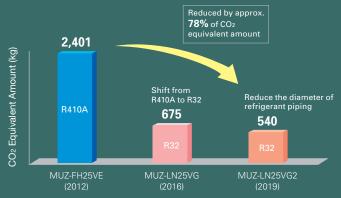


Mitsubishi Electric takes on the challenge of creating new value and contribute to a sustainable future in order to solve various environmental problems.

Preventing Global Warming

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

Reducing the amount of refrigerant usage



* reduction rate difers model by model.

Effective use of materials (Reduce & Recycle)

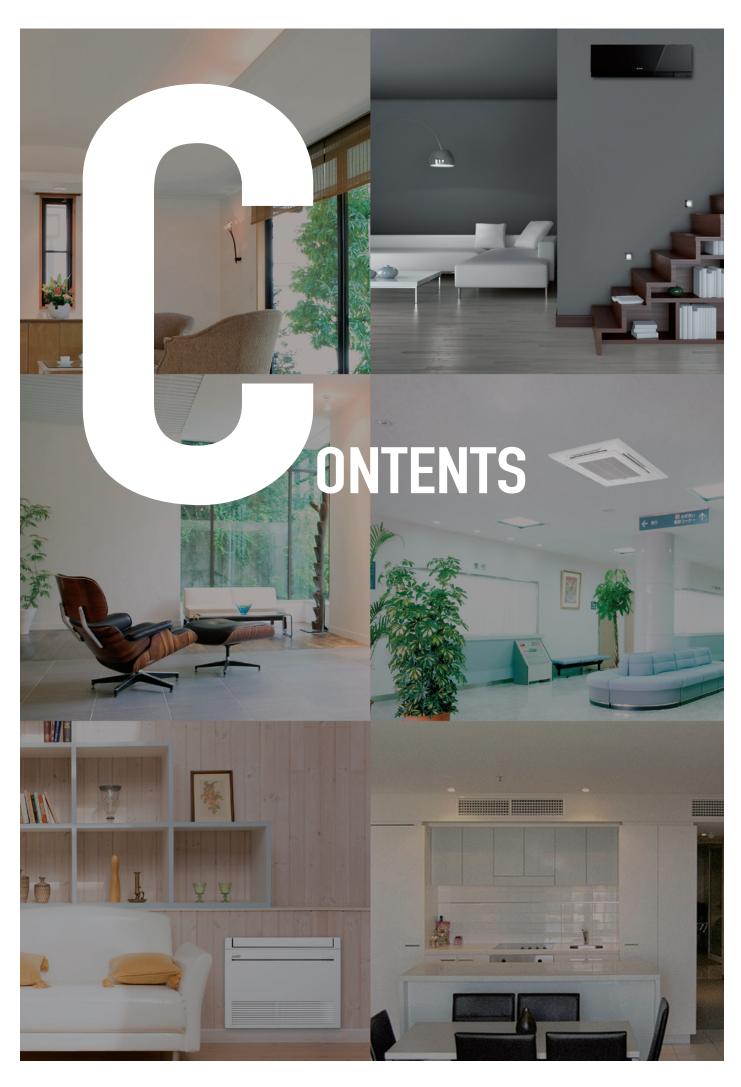
- 1. Accelerating the downsizing technology to reduce material use while balancing energy saving performance.
- 2. Designing products that are easy to separate and recycle.
- 3. All models are designed for WEEE and RoHS (II) compliance.*

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

Balancing comfort and ecology

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

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



LINE-UP & FEATURES	007-030
SPECIFICATION	037-055
REFRIGERANT AMOUNT	057









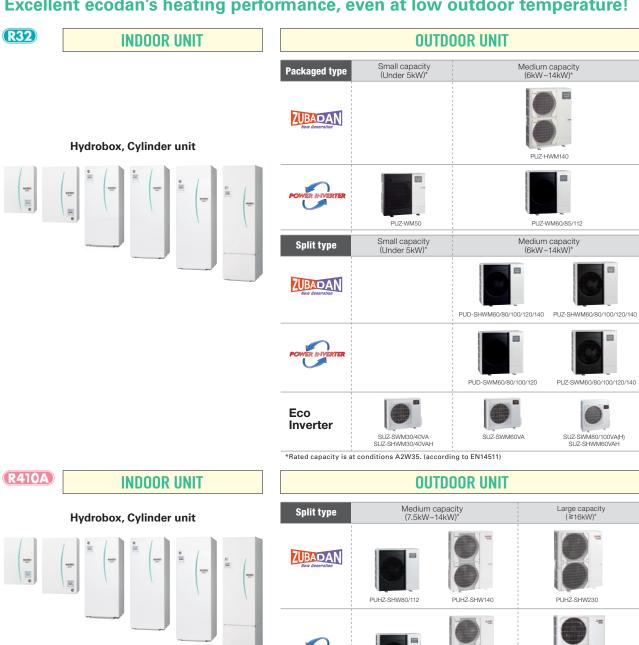






SELECTION Choose the series that best matches the building layout.

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



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

PUH7-SW75/100 *Rated capacity is at conditions A2W35. (according to EN14511) PUHZ-SW160/200

New Eco-design Directive

What is the ErP Directive?

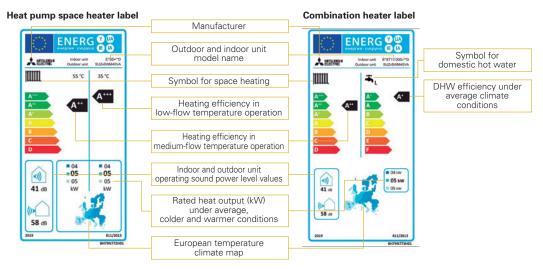
The Eco-design Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum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

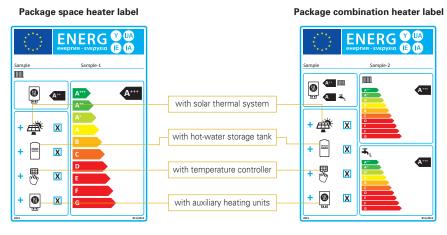
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from A^{+++} to G.

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

Wider line-up

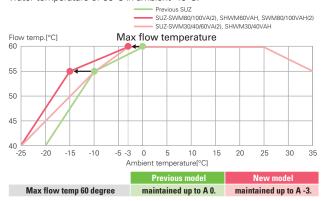
Standard/Hyper heating/Standard with base heater models are available.

	SUZ Series	3kW	4kW	6kW	8kW	10kW
Previous	Standard SUZ-SWM	_	1	1	1	_
	Standard SUZ-SWM	1	1	1	1	1
New	Hyper Heating* with base heater SUZ-SHWM	1	1	1	_	_
	Standard with base heater SUZ-SWM	_	_	_	1	1

^{*}Hyper Heating model: Keep 100% heating capacity at -15°C.

Performance Guaranteed Range Expansion for Max Outlet Water Temperature

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

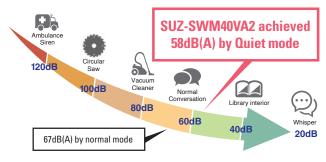


Quiet mode

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

- *Outdoor condition is A-7W35.

 *The cooling and heating capacity may drop if this function is activated.
- *Sound power level values are based on EN12102



Blue fin

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





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

Hyper Heating with base heater SUZ-SHWM30/40VAH



Standard

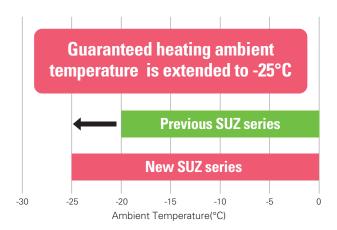
SUZ-SWM80/100VA(2)

Hyper Heating with base heater SUZ-SHWM60VAH

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

Performance Guaranteed Range Expansion

Performance guaranteed range is extended to -25°C.



Improved flexibility for installation

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

This enables for flexible installation in any wider properties.

	30	40	60	80	100
Standard [m]	2-26*	2-26*	2-26*	2-46*	2-46*
Hyper Heating with base heater [m]	2-26*	2-26*	2-46*	-	-
Standard with base heater [m]	-	-	-	2-46*	2-46*

^{*} When piping length is longer than 26m or 46m, please make sure to consult separately.

New PUZ Series

Great Line-up for Heating and Cooling

Our new flagship PUZ series offers optimized heating and cooling performance and covers both ranges, POWER INVERTER and ZUBADAN.

In addition to space heating and hot water supply, new PUZ series can easily combine with fan coils or underfloor cooling systems to provide with the best thermal comfort also in summer.

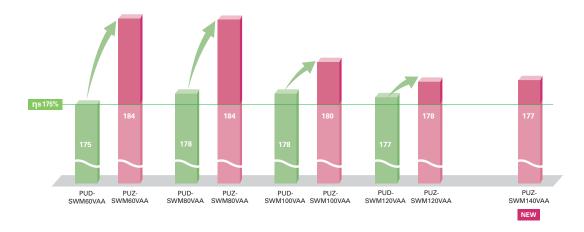
Refrigerant	Operation	Series		Power supply	60	80	100	120	140					
		ible PUZ	POWER	1Φ230V	•	•	•	•	•					
DOO	Davisonilla		INVERTER	3Ф400V	-	•	•	•	•					
R32	Reversible		PUZ	PUZ	PUZ	PUZ	PUZ	ZUDADAN	1Φ230V	•	•	•	•	•
			ZUBADAN -	3Ф400V	-	•	•	•	•					



Further Enhanced Energy Efficiency

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

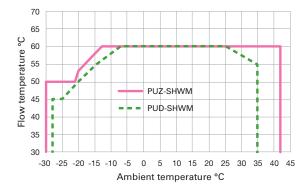
All models have achieved the "RANK A⁺⁺⁺" for SCOP with average climate at low temperature. Thanks to further design optimization, new PUZ is achieving better performance and contributing to reduce energy consumption in a wide range.

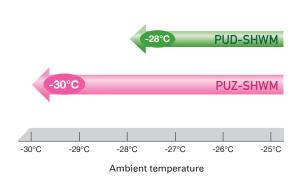


High Performance

Guaranteed Heating Operation Range is Extended to -30°C Ambient Temperature

Mitsubishi Electric's unique technology and compressors allow the heat pump to achieve the wider guaranteed heating operation range. 60°C max flow temperature can be maintained down to ambient -13°C. Even at ambient -30°C, the flow temperature can be kept 50°C.





Quiet Performance

Improved noise reduction

PUZ achieves quieter operation than previous model with its double anti-vibration structure.

- New 60-80 models achieved 54dB(A) in PWL.
- New 100-140 models achieved 58dB(A) inPWL.

*Sound power level values are based on EN12102.

Quiet mode

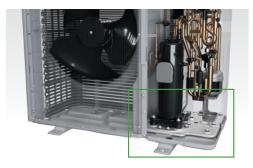
Three-stage quiet mode enables low-noise operation that can be adjusted to meet severe noise conditions.

*The cooling and heating capacity may drop when Quiet mode is activated.



Double anti-vibration structure

This double structure of an anti-vibration plate and foot rubbers reduces vibration noise to provide high quality performance while minimizing noise.



The rate of vibration transmission is greatly reduced by installing stat bolts and foot rubbers on the base and placing an anti-vibration plate on top of it.

PUZ-S(H)WM80 achieves **54dB(A)**

In addition, three layers of felt around the compressor absorbs noise. With these unique sound insulation structures, the unit enables less restrictions in residential areas.

Installation

Piping length

Max piping length can achieve up to 50m* for more flexible installation.

Refrigerant amount The necessary refrigerant amount has been reduced to 2,4kg at maximum, that's why the installation restrictions are limited.

No additional refrigerant charge (1.8kg) → No indoor unit installation restrictions.

1.8~2.4kg of refrigerant → Additional refrigerant charge allows up to 50m* piping length.

*For heating/cooling operation with PUZ-S(H)WM120/140, the max piping length is 30m.

Piping length and refrigerant charge amount

New PUZ achieves maximum 50m pipe length. This enables for flexible installation in any wider properties. To keep the maximum amount of refrigerant below 2.4 kg, the upper limit differs depending on heating only and reversible.

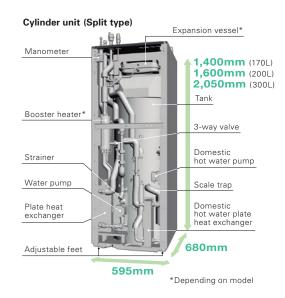
			Piping length	Initial amount	Refrigerant amount(kg)	2~3m	~5m	~10m	~15m	~20m	~25m	~30m	~35m	~40m	~45m	~50m
		PUZ-S(H)WM	0.50	4.01	Total		1.8							2	2.1	2.2
	60/80/100AA	2~50m	1.8kg	Additional charge		No additional charge							+0.20	+0.30	+0.40	
ope	eration	PUZ-S(H)WM			Total		1.8 2						2	2.2	2.3	2.4
		120/140AA			Additional charge		No additional charge +						+0.20	+0.40	+0.50	+0.60
	PUZ-S(H)WM 60/80/100AA Heating/Cooling operation PUZ-S(H)WM			~50m 1.8kg	Total		1.8 1.9 2 2.1			2.1	2.2	2.3	2	.4		
Heatin					Additional charge	No	No additional charge			+0.10	+0.20	+0.30	+0.40	+0.50	+0	.60
оре			UZ-S(H)WM	1.01	Total	2.2	2.2 2.3 2.4									
		120/140AA	2~30m	1.8kg	Additional charge	+0.40 +0.50 +0.60				_						

D generation Indoor Unit

All-in-one Compact Indoor Unit

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





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 Cylinder unit **Available options**

- Packaged or Split type

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

Reversible Models

(for heating/cooling)

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

Reversible models are now available for both 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.



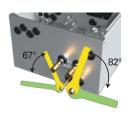
Built-in Drain Pan for Reversible Cylinder Models

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



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.

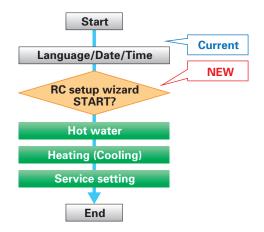
Easy Adjustment

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



Initial Setting Wizard

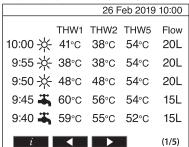
In addition to language, date and time, you can set up hot water and heating/cooling operation, pump speed, flow rate range initial setting much simpler than previous models.



Operation Data Monitoring

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

Sample display of monitoring setting



2 Zone Kit

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



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

High Performance

Improved Efficiency

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

Excellent DHW efficiency

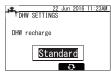


	170L	200L	300L	
	ղwh [%]	ղwh [%]	ղwh [%]	
Conventional	-	96~104	-	
New	120~148	135~159	118~128	
Load Profile	L	L	XL	
DHW Rank	A+	A+	A/A+	

Thermistor Position of Cylinder

The thermistor position is now selectable allowing the unit to accommodate for different water demands in order to maximise the efficiency of the unit for any size of household or application.

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





Unique Technology of ecodan

Auto Adaptation

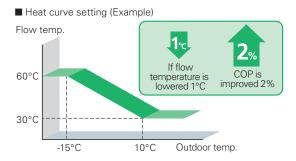
Maximise Energy Savings While Retaining Comfort at All Times

Settings can be performed using an SD card.

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

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

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



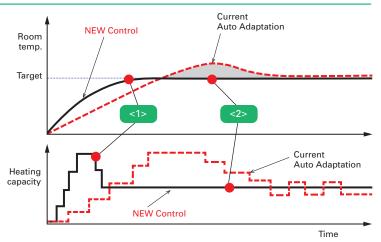
Auto Adaptation Improvement

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

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

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

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

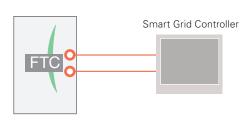


- <1> Fast heating with improved accuracy in learning building heat load
- <2> Energy saving by avoiding over heating and capacity fluctuation with better control response,

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.

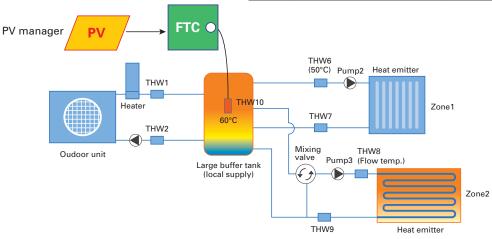
Improved Smart Grid Ready

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, zone2 flow temperature is maintained.



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





Intelligent Hybrid Control (boiler interlock)

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

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

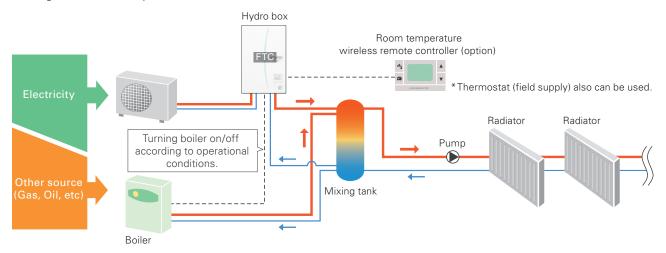
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

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

*Please see below "Heat source switchover".

Intelligent system combining a boiler with ecodan

■ Intelligent boiler interlock system



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

Heat source switchover - Choose appropriate system based on needs

4 types of heat source switchover logic

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

Settings can be performed using an SD card.

2 Zone Control (for heating/cooling)

Improved Simultaneous Control of Two Different Zones

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

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

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

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

Multiple Unit Control

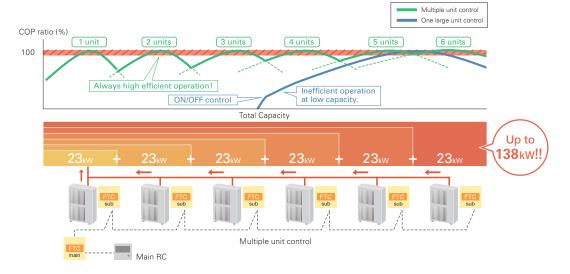
Connect up to 6 Units – Automatic Control of Multiple Units for Bigger Capacity and Better Efficiency

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
 - Summer time setting
 - Built-in room temperature sensors

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





Receiver

Main controller



PAR-WT50R-E (Option) Wireless remote controller

Wireless remote controller (optional)

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

Energy Monitoring

View Electricity Consumption and Heat Output on the Remote Controller

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

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

Other features

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

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

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

Summer Time Setting

Easy Adjustment for **Summer Time**

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

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





Two Separate Schedules

Pre-setting Two Different Schedules for Winter and Summer Seasons

Settings can be an SD card

Two different schedule settings are available for use via the main

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



Easy Commissioning

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

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

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

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



Flow sensor newly incorporated

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

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



Run indoor unit* without outdoor unit

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

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

- *Models with electric heater only.
- *When the indoor unit operation stops, please check all settings after the outdoor unit is connected.

Settings can be performed using an SD card.

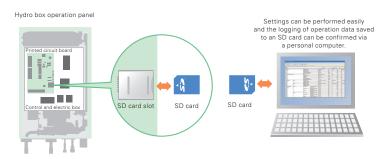
*SD logo is a trademark of SD-3C, LLC

SD* Card

For Easier Settings and Data Logging

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

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



Items that can be pre-set

Simply copying pre-set data to an SD card, the same settings can input into another unit using the SD card.

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

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

Data that can be stored

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

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

ZUBADAN SERIES

The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.

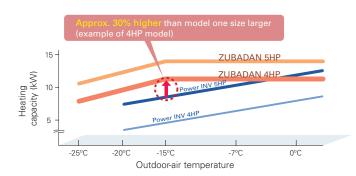


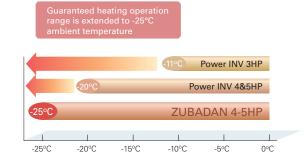
* Units in photo are Japanese models.

European model specifications are different.

Improved Heating Performance

Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -25°C. Accordingly, the heat-pump units of the ZUBADAN Series are perfect for warming homes in the coldest of regions.

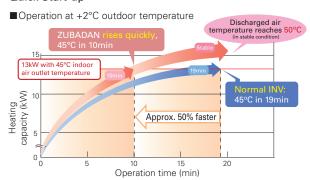


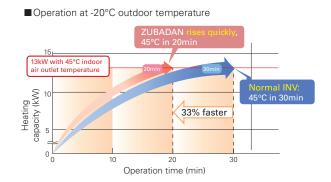


Enhanced Comfort

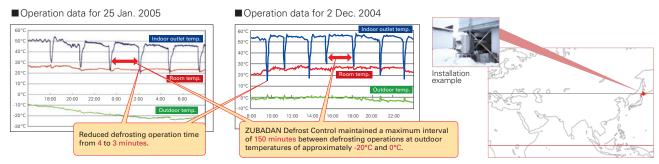
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up





ZUBADAN Defrost Control and Faster Recovery from Defrost Operation Field Test Results: Office building in Asahikawa, Hokkaido, Japan

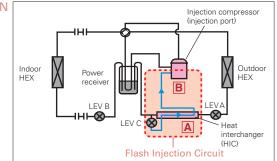


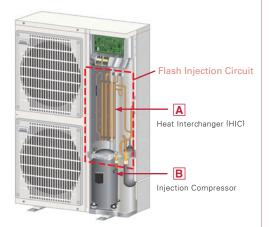
Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

■ Flash Injection Circuit

ZUBADAN

Refrigerant

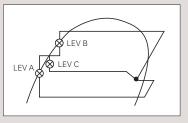




The ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance even when the outdoor temperature drops very low.

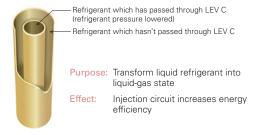
In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant to maintain the refrigerant circulation volume and compressor operation load, thereby maintaining heating capacity.

Mollier Chart Image Representing Flash Injection Circuit Operation



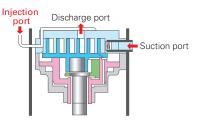
A Heat Interchanger (HIC)

HIC cross-sectional view



The compressor is subjected to a heavy load when compressing liquid refrigerant, and the result is lower operation efficiency. The addition of HIC supports refrigerant heat exchange at two different pressure levels. The heat-exchange process transforms the injected liquid refrigerant into a gas liquid state, thereby decreasing the load on the compressor during the compression process.

B Injection Compresso



Purpose: To increase the volume of refrigerant being circulated

Effect: Improves heating capacity at low outdoor tempera-

tures, and enables higher indoor-air outlet temperature adjustment and higher defrost operation speed

Refrigerant passes from the HIC into the compressor through the injection port. Having two refrigerant inlets makes it possible to raise the volume of refrigerant being circulated when the outdoor temperature is low and at the start of heating operation. To ensure full capacity in cold and snowy regions...

3 Important Points to Remember When Installing the Outdoor Unit



* RAC/PAC (inc. Air to Water) /MXZ

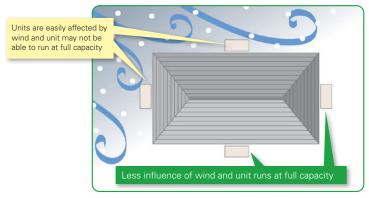
Wind and snow can significantly reduce capacity.

Be sure to check the infomation below and install the outdoor unit correctly.



Installation Location

Be aware of the prevailing wind direction in winter and install the outdoor unit where it is as sheltered as possible.

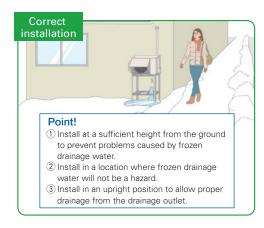


2

Measures for Drainage of Water

Case 1: Unit is installed close to passage (walkway)

Do not install the unit close to passage as drainage water from the unit may freeze and cause a slipping hazard.

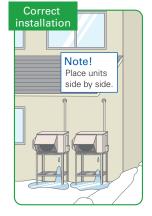


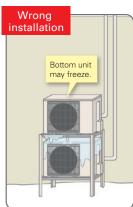




Case 2: Multiple units are installed

Do not install units on top of one another as it may cause frozen drainage water on the bottom unit

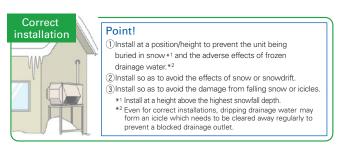




3 Measures for Snow

Unit is installed on the ground

To avoid the adverse effects of snow and frozen drainage water, install the unit on a stand to ensure a sufficient height from the ground.

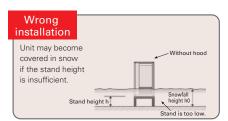




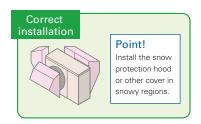


Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

Correct installation Minimum height (h) should be higher than the highest snowhood (side panel) +20cm Air intake snow hood (rear)



Install snow protection hood as necessary



Necessity of accessories (drain socket & centralised drain pan, stand, snow protection hood, base heater)

	Snowy region	Cold region	
	Countermeasures for snow	Countermeasures for freezing	Remarks
Drain socket, Centralised drain pan	Not used	Not used	Prevents freezing
Stand	Needed	Needed	Install so as to prevent the unit being buried in snow (at a height greater than the highest snowfall depth). Be sure that the stand does not obstruct drainage. Install so as to prevent the unit due to frozen drainage water (icicles). Clearance to prevent snow accumulating.
Snow protection hood	Needed *When the installation position is subject to snowfall.	_	Prevents heat exchanger from being covered in snow. Prevents snow accumulating inside the air duct.
Base heater	_	Needed	Outdoor units equipped with a heater for cold regions are those with an "H" in the model name. For the cold-climate zone, use of a unit with a heater is strongly recommended. Even for the moderate-climate zone use of a unit with a heater is recommended for regions subject to high humidity in winter.

A CAUTION

About disposal of drainage water

When the unit is installed in cold or snowy regions:

Drainage water may freeze in the drain socket/hose and prevent the fan from rotating.



Do not attach a drain socket packaged as an accessory to the unit.

* In the case that fitting a drain socket is absolutely necessary, steps must be taken so that the drainage water does not freeze.
For more information, please consult Mitsubishi Electric or one of its dealers/resellers.

PXZ SERIES

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 Every Home's Needs

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



PXZ for summer PXZ enables cooling of multiple rooms by ATA and supply hot water by ATW.



PXZ for winter

PXZ enables heating of multiple rooms by ATA and supply hot water by ATW.

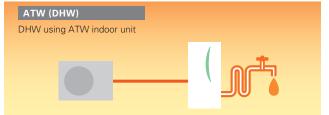
Indoor unit line up



Summer 2-in-1 Operation

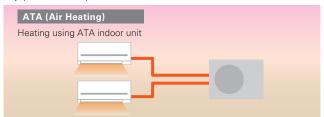
Secure total indoor comfort by cooling with ATA and producing DHW by ATW in summer. During the times your ATA is not cooling, your heat pump will produce DHW stored in your tank. Hot summer days will become a breeze with cooling ATA and you can enjoy DHW for all your needs with ATW.

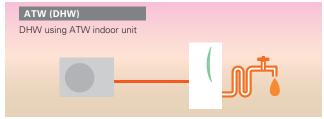




Spring & Autumn 2-in-1 Operation

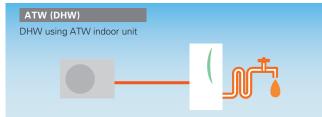
Secure total indoor comfort by heating with ATA and producing DHW by ATW in spring and autumn. During the times your ATA is not heating, your heat pump will produce DHW stored in your tank. ATA will quickly warm up your room even during the chilly morning and evening and you can enjoy DHW for all your needs with ATW.

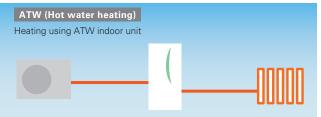




Winter ecodan

Secure total indoor comfort by heating and producing DHW by ATW in winter. During the times your ATW is not heating, your heat pump will produce DHW stored in your tank. ATW heating will keep your home warm all the day in severe cold weather and you can enjoy DHW for all your needs with ATW.

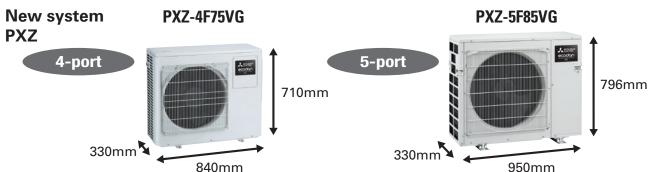




^{*} If DHW operation starts during ATA operation, ATA operation will temporarily stop. Therefore, it is recommended to set a schedule timer so that DHW operates during the night or when you are not at home.

Outdoor unit line up

Compact design fitting into narrow spaces, ideal for condominiums and villas.



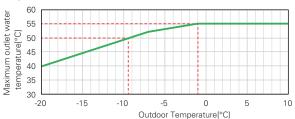
Quiet mode

Quiet mode allows PXZ to run silently while cooling or heating your home.

PXZ-5F85VG achieved 58dB(A) by Quiet mode Ambulance Siren 120dB I00dB 80dB Library int 60dB 40dB 20dB 64dB(A) by normal mode

Max 55°C outlet water temp

For the hot water supply with PXZ, a maximum outlet water temperature of 55°C is secured.



High Performance Hot Water Supply

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



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

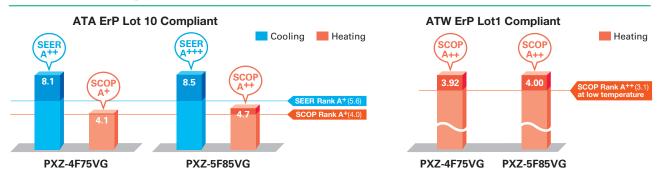
- The cooling and heating capacity may drop if this function is activated.
- * When the outside air temperature is low during heating, the heating capacity is prioritized and the unit may not be quiet. Also, if the outside air temperature is high during cooling, the cooling capacity is prioritized and the unit may not be quiet.

 * Sound power level values are based on EN12102.

 * Capacity values are based on EN14511

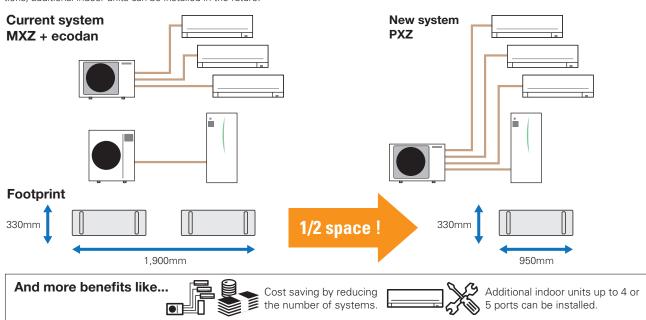
- *To activate Quiet mode, changing the setting is required.

A+++ Class Energy Efficiency



New System Benefits

End users only need to purchase a single outdoor unit, as PXZ is connectable to both RAC and Ecodan. With house expansions or room redistributions, additional indoor units can be installed in the future.



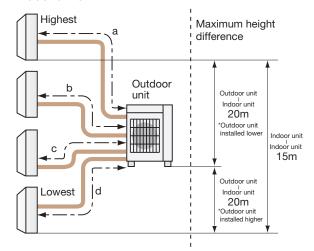
Specifications

PXZ-4F75VG

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	30m
Total length (a+b+c+d)	60m

Maximum Number of Bends				
Outdoor unit - Indoor unit (a,b,c,d)	25			
Total number (a+b+c+d)	60			

Indoor units

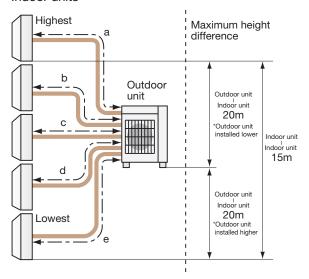


PXZ-5F85VG

Maximum Piping Length					
Outdoor unit - Indoor unit (a,b,c,d)	30m				
Total length (a+b+c+d)	70m				

Maximum Number of Bends					
Outdoor unit - Indoor unit (a,b,c,d)	25				
Total number (a+b+c+d)	70				

Indoor units



Specifications

					T	T
Outdoor Unit	Castina	Cit.	D-4- 4 (25°C)	130/	PXZ-4F75VG	PXZ-5F85VG
Air-to-Air (ATA)	Cooling	Capacity	Rated (35°C)	kW	7.2	8.3
			Min-Max	kW	3.7-8.8	3.7-9.2
		Total Input	Rated (35°C)	kW	1.85	1.97
		EER			3.89	4.21
		Design load		kW	7.2	8.3
		Annual electricity consumption	*1	kWh/a	311	342
		SEER*2			8.1	8.5
			Energy efficiency class		A++	A+++
	Heating	Capacity	Rated (7°C)	kW	8.6	9.3
			Rated (-7°C)	kW	6.20	6.20
			Min-Max (7°C)	kW	3.4-10.7	3.4-11.6
		Total Input	Rated (7°C)	kW	1.87	2.00
		COP			4.60	4.65
		Design load		kW	7.0	7.0
		Declared Capacity	at reference design temperature	kW	5.6	5.8
		,	at bivalent temperature	kW	6.2	6.2
			at operation limit temperature	kW	4.8	4.9
		Back up heating capacity	at operation mine temperature	kW	1.4	1.2
		Annual electricity consumption	*1	kWh/a	2,389	2,087
		SCOP*2		KVVII/G	4.1	4.7
		3001 2	Energy officiency close		A+	A++
	Sound Lavel (CDL)		Energy efficiency class	dR(A)		49
	Sound Level (SPL)		Cooling	dB(A)	48	
	6 15 1	(D)A(I)	Heating	dB(A)	54	51
	Sound Power Level	(PVVL)	Cooling	dB(A)	63	61
			Heating	dB(A)	69	63
Outdoor unit	Supply(V/Phase/Hz)		1		230V/1ph	
	Air Volume		ATA heating	m3/min	42.7	62
			ATA Cooling	m3/min		57
			ATW heating	m3/min		62
			ATW DHW (ecodan indoor unit)	m3/min	42.7	62
	Guaranteed Operatir	ng Range	ATA heating	°C	-20°C DB-24°C DB	-20°C DB-24°C DB
	·		ATA Cooling	°C	-10°C DB-46°C DB	-10°C DB-46°C DB
			ATW heating	°C	-20°C DB-24°C DB	-20°C DB-24°C DB
			ATW DHW (ecodan indoor unit)	°C	-20°C DB-35°C DB	-20°C DB-35°C DB
	Dimensions		H×W×D	mm	710×840(+30)×330(+66)	796×950×330
	Weight		IIAVVAD	kg	59	62
	Packaged Dimension	n	H×W×D	mm	870×1010×460	950×1050×440
	Packaged Weight		I I A V V A D		68	74
		nov)		kg A		
	Operating Current (n	nax)		A	18	21.4
E . D: :	Breaker Size		1		25	25
Ext.Piping	Diameter		Liquid/Gas	mm	6.35×4/12.7×1+9.52×3	6.35×5/12.7×1+9.52×4
	Each indoor unit pipi	ng length (max)		m	30	30
	Max.Length		Out-In	m	60	70
	Max.Height		Out-In	m	20	20
	Chargeless length			m	60	70
Refrigerant					R32*3	R32*3
	Amount		Pre-charged	kg	2.4	2.4
			Maximum	kg	2.4	2.4
Number of total port	Available indoor unit	ATA	Quantity		1~3	1~4
Number of total port	Available indoor unit	ATW	Quantity		1	1
ecodan connection	Heating*4	A7W35	Capacity nom	kW	7.5	8.5
(Mitsubishi Electric supplied indoor unit)			Capacity max	kW	9.3	10.0
			Total Input nom	kW	1.80	1.96
			Total Input max	kW	2.61	2.51
			COP nom		4.17	4.34
			COP max		3.57	3.99
		A7W55	Capacity	kW	7.50	8.50
			Total Input	kW	3.05	3.26
			COP		2.46	2.61
		A2W35	Capacity nom	kW	6.80	7.80
			Capacity max	kW	6.80	7.80
			Total Input nom	kW	2.43	2.60
			Total Input max	kW	2.43	2.60
			COP nom		2.80	3.00
			COP max		2.80	3.00
		SSHE 35°C		Class	A++	A++
				ηS	154%	157%
		Average condition				
		Average condition		SCOP		4.00
		Average condition SSHE 55°C			3.92	
		SSHE 55°C		Class	3.92 A+	A+
		_		Class ηS	3.92 A+ 113%	A+ 111%
	DHW	SSHE 55°C Average condition		Class ηS SCOP	3.92 A+ 113% 2.91	A+ 111% 2.86
	DHW (ecodan indoor unit)	SSHE 55°C Average condition DHW 200L Load Profile		Class ηS SCOP Class	3.92 A+ 113% 2.91 A+	A+ 111% 2.86 A+
	DHW (ecodan indoor unit)	SSHE 55°C Average condition DHW 200L Load Profile Average condition		Class ηS SCOP	3.92 A+ 113% 2.91 A+ 124%	A+ 111% 2.86 A+ 122%
	(ecodan indoor unit)	SSHE 55°C Average condition DHW 200L Load Profile Average condition COP DHW		Class ηS SCOP Class ηWH	3.92 A+ 113% 2.91 A+ 124% 2.99	A+ 111% 2.86 A+ 122% 2.97
	(ecodan indoor unit) Max outlet water ter	SSHE 55°C Average condition DHW 200L Load Profile Average condition COP DHW	Hasting	Class ηS SCOP Class ηWH	3.92 A+ 113% 2.91 A+ 124% 2.99 55	A+ 111% 2.86 A+ 122% 2.97 55
	(ecodan indoor unit)	SSHE 55°C Average condition DHW 200L Load Profile Average condition COP DHW	Heating	Class \(\eta S \) SCOP Class \(\eta W \) Class \(\eta W \) C dB(A)	3.92 A+ 113% 2.91 A+ 124% 2.99 55	A+ 111% 2.86 A+ 122% 2.97 55
	(ecodan indoor unit) Max outlet water ter Sound Level (SPL)	SSHE 55°C Average condition DHW 200L Load Profile Average condition COP DHW mpreture	DHW (ecodan indoor unit)	Class η S SCOP Class η WH °C dB(A) dB(A)	3.92 A+ 113% 2.91 A+ 124% 2.99 55 57	A+ 111% 2.86 A+ 122% 2.97 55 54
	(ecodan indoor unit) Max outlet water ter	SSHE 55°C Average condition DHW 200L Load Profile Average condition COP DHW mpreture	DHW (ecodan indoor unit) Heating	Class	3.92 A+ 113% 2.91 A+ 124% 2.99 55 57 67	A+ 111% 2.86 A+ 122% 2.97 55 54 54 64
	(ecodan indoor unit) Max outlet water ter Sound Level (SPL)	SSHE 55°C Average condition DHW 200L Load Profile Average condition COP DHW mpreture	DHW (ecodan indoor unit)	Class η S SCOP Class η WH °C dB(A) dB(A)	3.92 A+ 113% 2.91 A+ 124% 2.99 55 57	A+ 111% 2.86 A+ 122% 2.97 55 54

^{*1} Energy consumption is based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

*2 SEER/SCOP values are measured based on EN14825.

*3 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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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

PXZ + ecodan ATA Compatibility Table

Г		Outdoor unit	P,	XZ
L	ndoor unit	Outdoor drift	4F75VG	5F85VG
Н	Wall Mounted	MSZ-RW25VG	4F75VG	0 0
eries	vvaii iviounteu	MSZ-RW35VG	0	0
M ser		MSZ-RW50VG	0	0
Γ		MSZ-LN18VG2		0
			0	
		MSZ-LN25VG2	0	0
		MSZ-LN35VG2	0	0
		MSZ-LN50VG2	0	0
		MSZ-LN60VG2		
		MSZ-EF18VG(K)	0	0
		MSZ-EF22VG(K)	0	0
		MSZ-EF25VG(K)	0	0
		MSZ-EF35VG(K)	0	0
		MSZ-EF42VG(K)	0	0
		MSZ-EF50VG(K)	0	0
		MSZ-AP15VG(K)	0	0
		MSZ-AP20VG(K)	0	0
		MSZ-AP25VG(K)	0	0
		MSZ-AP35VG(K)	0	0
		MSZ-AP42VG(K)	0	0
		MSZ-AP50VG(K)	0	0
		MSZ-AP60VG(K)	0	0
		MSZ-AP71VG(K)		0
		MSZ-AY25VGK(P)	0	0
		MSZ-AY35VGK(P)	0	0
		MSZ-AY42VGK(P)	0	0
		MSZ-AY50VGK(P)	0	0
		MSZ-BT20VG(K)	0	0
		MSZ-BT25VG(K)	0	0
		MSZ-BT35VG(K)	0	0
		MSZ-BT50VG(K)		
	Floor Standing*1	MSZ-BT50VG(K)	0	0
		MFZ-KT35VG	0	0
		MFZ-KT50VG	0	0
	1-way Cassette*2	MLZ-KP25VF	0	0
	1 way odddotto 2	MLZ-KP35VF	0	0
		MLZ-KP50VF	0	0
		MLZ-KY20VG	0	0
	Cailing C			0
eries	Ceiling Concealed	SEZ-M25DA(L) SEZ-M35DA(L)	0	
Sser			0	0
		SEZ-M50DA(L)	0	0
		SEZ-M60DA(L)	0	0
		SEZ-M71DA(L)		0
		SEZ-M25DA(L)2	0	0
		SEZ-M35DA(L)2	0	0
		SEZ-M50DA(L)2	0	0
		SEZ-M60DA(L)2	0	0
		SEZ-M71DA(L)2		0
series	Ceiling Suspended*3	PCA-M50KA	0	
ser		PCA-M60KA	0	
Д		PCA-M71KA		
		PCA-M50KA2	0	
		PCA-M60KA2	0	
	Ceiling	PEAD-M50JA(L)	0	0
	Concealed*3	PEAD-M60JA(L)	0	0
		PEAD-M71JA(L)	0	0
v -	otal ATA III HEX vo		nd a certain level P	

^{*}Total ATA IU HEX volume should NOT exceed a certain level. Please contact us for the further information.

PXZ + ecodan ATW Compatiblity Table

	Outdoor unit	PXZ			
Indoor unit		4F75VG	5F85VG		
Cylinder	EHST17D-VM2D	0	0		
	EHST17D-YM9D	0	0		
	EHST20D-VM2D	0	0		
	EHST20D-VM6D	0	0		
	EHST20D-YM9D	0	0		
	EHST20D-YM9ED	0	0		
	EHST20D-TM9D	0	0		
	EHST30D-VM6ED	0	0		
	EHST30D-YM9ED	0	0		
	EHST30D-TM9ED	0	0		
	ERST17D-VM2D	0	0		
	ERST17D-VM6D	0	0		
	ERST20D-VM2D	0	0		
	ERST20D-VM6D	0	0		
	ERST20D-YM9D	0	0		
	ERST30D-VM2ED	0	0		
	ERST30D-VM6ED	0	0		
	ERST30D-YM9ED	0	0		
Hydrobox	EHSD-VM2D	0	0		
	EHSD-VM6D	0	0		
	EHSD-YM9D	0	0		
	EHSD-YM9ED	0	0		
	EHSD-TM9D	0	0		
	ERSD-VM2D	0	0		
	ERSD-VM6D	0	0		
	ERSD-YM9D	0	0		

New Optional Parts Compatibility Table

Parts name	Model name	PXZ		
		4F75VG	5F85VG	
Drain hose heater connecter	MAC-062RA-E	0	0	
Muffler*	MAC-001MF-E	0	0	

^{*}Please connect the muffler to the gas piping within 3 meters from the piping connection port of the outdoor unit.
*Please attach this if you are concerned about refrigerant noise.

^{*1} When connecting to MFZ, MAC-001MF is required to install to suppress noise.
*2 When connecting to MLZ, electric heater is required for outlet water tempreture over 40°C.
*3 When connecting to PEAD-M60/71 or PCA-M60/71, it is prohibited to connect other ATA.

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

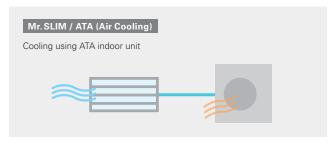
Mr. SLIM+ utilises a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that it is possible to fit to various applications.

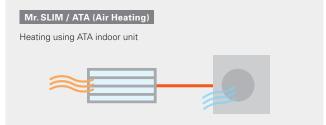
ecodan for Air-to-Water

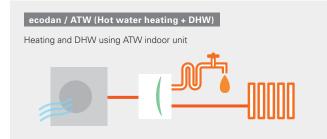
✓Domestic hot water (DHW) supply ✓Heating for multiple rooms



Various Operations









Specifications

Indoor	unit				PLA-ZM71EA	PKA-M71KAL	PCA-M71KA	PSA-RP71KA	PEAD-M71JA	PEAD-M71JAL	
Outdoo	r unit				PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VH	
Refrige	rant				R410A*1						
Power	supply	Outdoor (V / P	hase / Hz)			230 / Single / 50					
Air-to-Air	Cooling	Capacity	Rated	kW	7.1	7.1	7.1	7.1	7.1	7.1	
(ATA)			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	
		Annual electri	city consumption *2	kWh/a	376	386	384	409	444	427	
		SEER *4			6.6	6.4	6.4	6.0	5.5	5.8	
			Energy-efficiency class		A++	A ⁺⁺	A ⁺⁺	A ⁺	А	A ⁺	
	Heating	Capacity	Rated	kW	8.0	8.0	8.0	8.0	8.0	8.0	
	(average season)		Min-Max	kW	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	
		Total input	Rated	kW	2.11	2.29	2.29	2.42	2.11	2.11	
		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	at reference design temperature	kW	4.7 (-10°C)	4.7 (-10°C)	4.7 (-10°C)	4.7 (-10°C)	4.9 (-10°C)	4.9 (-10°C)	
		capacity	at bivalent temperature	kW	4.7 (-10°C)	4.7 (-10°C)	4.7 (-10°C)	4.7 (-10°C)	4.9 (-10°C)	4.9 (-10°C)	
			at operation limit temperature	kW	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.7 (-20°C)	3.7 (-20°C)	
		Back-up hea	ting capacity	kW	0	0	0	0	0	0	
		Annual electricity consumption *2 kWh/		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 ⁺	А	А	А	
	Nomina	I flow rate (for	heating)	L/min			22.	90			
ATW)	Heating *5	g*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	&	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 &		COP		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 inc	loor unit			Cylinder unit or Hydro box (see previous page)						
Dutdoo	r unit	Dimensions	HxWxD	mm			943-950-	330 (+30)			
		Weight		kg	73	73	73	73	73	73	
		Air volume	Cooling	m³/min	50	50	50	50	50	50	
			Heating	m³/min	50	50	50	50	50	50	
		Sound pressure	Cooling	dB(A)	47	47	47	47	47	47	
		level (SPL)	Heat recovery	dB(A)	47	47	47	47	47	47	
			ATA Heating	dB(A)	49	49	49	49	49	49	
			ATW Heating	dB(A)	49	49	49	49	49	49	
		Sound power	Cooling	dB(A)	67	67	67	67	67	67	
		level (PWL)	Heat recovery	dB(A)	67	67	67	67	67	67	
			ATA Heating	dB(A)	68	68	68	68	68	68	
			ATW Heating	dB(A)	68	68	68	68	68	68	
		Operating cur	rent (max)	Α	19.0	19.0	19.0	19.0	19.0	19.0	
		Breaker size		Α	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 ATA) +	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	or)		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	
							1				

^{*1} Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

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

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

*6 Conditions for Air-to-Air cooling: Indoor 27°C (dry bulb) /19°C (wet bulb); Outdoor 35°C (dry bulb).

PUMY+ecodan

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

1 Unit, 2 Roles - Total Comfort Year-round

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

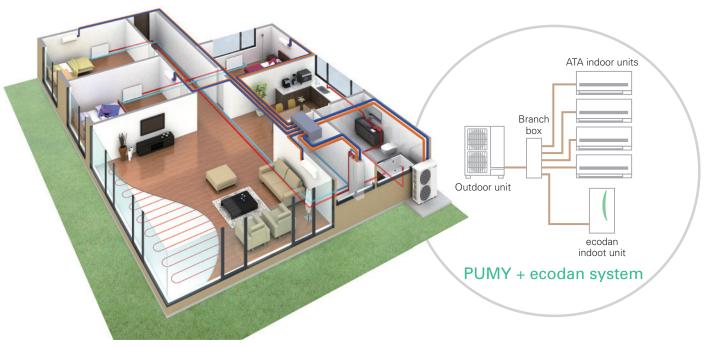
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

PUMY for Air-to-Air

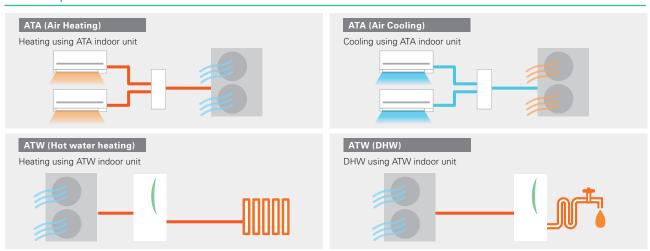
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

ecodan for Air-to-Water

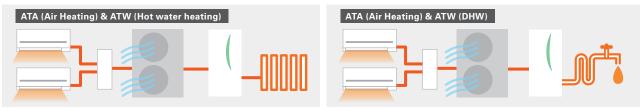
✓Domestic hot water (DHW) supply ✓Heating for multiple rooms



Main Operation Patterns



Optional Operation Patterns* (simultaneous)



Usage Pattern All-in-one System Solution

Summer 2-in-1 Operation

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



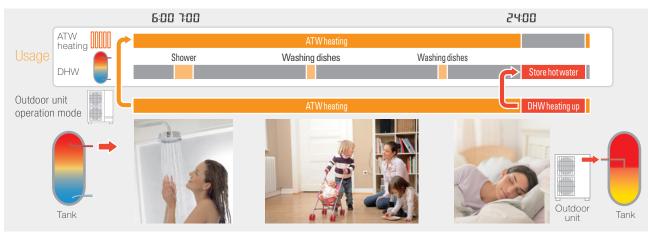
Spring & Autumn 2-in-1 Operation

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



Winter ecodan

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



Model name						PUMY- P112VKM5(-BS)	PUMY- P125VKM5(-BS)	PUMY- P140VKM5(-BS)	PUMY- P112YKM(E)4(-BS)	PUMY- P125YKM(E)4(-BS)	PUMY- P140YKM(E)4(-BS
Power supply	<u>'</u>						1-phase 220 - 230 - 240V, 50Hz 3-phase 380 - 400 - 415V, 50H				
Air-to-Air	Cooling	Capacity			kW	12.5	14.0	15.5	12.5	14.0	15.5
(ATA)	(nominal)*1	Power input			kW	2.79	3.46	4.52	2.79	3.46	4.52
		EER				4.48	4.05	3.43	4.48	4.05	3.43
	Temp. range	Indoor temp.			W.B.				24°C		
	of cooling	Outdoor temp.	*2		D.B.			-5 -	52°C		
	Heating	Capacity			kW	14.0	16.0	18.0	14.0	16.0	18.0
	(nominal)*1	Power input			kW	3.04	3.74	4.47	3.04	3.74	4.47
		COP				4.61	4.28	4.03	4.61	4.28	4.03
	Temp. range	Indoor temp.			W.B.				27°C		
	of heating	Outdoor temp.			D.B.				15°C		
Air-to-Water		rate (for heatin	Ť.		L/min				5.8		
(ATW)	Heating*3	A7W35	Capacity		kW				2.5		
			Power input		kW				06		
			COP						08		
		A2W35	Capacity		kW				0.0		
			Power input		kW	3.50					
			COP		D.B.				86		
	Guaranteed ATW operating	ATW	Heating						+21°C		
	range	DHW		D.B.	−20 - +35°C						
		ATA + ATW				7 - +21°C					
		ATA heating + ATW heating *4				-10 - +21°C					
0.11		itlet water temp			°C	55					
Outdoor	Indoor unit connectable	only M	Total capacity			50 to 130% of outdoor unit capacity					45 400/0
unit	connectable		Model/ Quantity	Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8
		ATA . ATIA/	· '	Mixed system*12		15-140* ⁵ /10	15-140* ⁵ /10* ⁶	15-140*5/10*6	15-140*5/10	15-140* ⁵ /10* ⁶	15-140*5/10*6
		ATA + ATW individual operation	ndividual Model/Quantity	Donald have supplied		ATA : Max 130% of outdoor unit capacity + ATW (EHST20C or EHSC) *7 15-100/8					
				Branch box system Mixed system*12			15-100/8 15-140* ⁵ /10* ⁶	15-100/8 15-140* ⁵ /10* ⁶	15-100/8 15-140* ⁵ /10		15-100/8
		ATA + ATW simultaneous operation		Wixed system*12		15-140* ⁵ /10				15-140*5/10*6	15-140*5/10*6
			Total capacity Model/Quantity	ATA*12		15/1*8	15-25/2*9	15-42*11/3*10	15/1*8	ST20C or EHSC) * 15-25/2*9	15-42*11/3*10
			Iviouei/Quantity	ATW		15/1/0	15-25/2 ***		C or EHSC) / 1	15-25/2 ***	15-42^**/3^**
	Cound proces	ura lavral /magaz	I Ired in anechoic ro		dB <a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53
			d in anechoic roor		dB <a>	69 / 71	70 / 72	71 / 73	69 / 71	70 / 72	71 / 73
		iping diameter	u in anechoic roor	Liquid pipe	mm						/1//3
	Therrigerant p	iping diameter		Gas pipe	mm	9.52 flare 15.88 flare					
	Fan	Type × Quantit	W.	das pipe	111111				r fan × 2		
	l all	Airflow rate	·y		m³/min				10		
		All now rate			L/s				383		
					cfm						
		Motor output			kW	3,884 0.074 + 0.074					
	Compressor	Type × Quantit	·V		KVV			Scroll hermetic			
	5р. 66501	Starting metho	<u>'</u>					Inve			
			,		kW	2.9	3.5	3.9	2.9	3.5	3.9
		Motor output				2.0	0.0	0.0	2.0	0.0	0.0
	External dime	ensions (H × W >	x D)		mm			1 338 x 1 05	0 × 330 (+40)		

ż		
3	-	ı

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

- *2 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM, PFFY-P20/25/32VLE(R)M, PEFY-P*VMA3 or M, S and P series indoor unit.
 *3 In the case of ATW single connection. Input to circulation pump is not included.
 *4 In the case of simultaneous operation of ATA heating and ATW heating, target flow temperature range is restricted to 45-55°C and when the ambient temp is under 7°C,
- the flow temp is lowered.
 *5 Up to P100 when connecting via branch box.
- *6 Up to 11 units when connecting via 2 branch boxes. *7 Only one ecodan unit can be connected.

- "7 / Uniy 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.

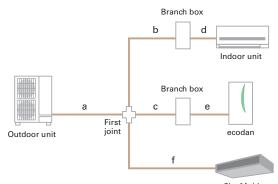
 *11 In the case of City Multi connection, maxmum is P32.

 *12 PKFY and PFFY series are not connectable.

Piping specifications

1 0 1			
Total piping length	m	150*	a+b+c+d+e+f
Farthest piping length	m	80	a+b+d or a+c+e
	'''	85	a+f
Total piping length betwen outdoor unit and branch box	m	55	a+b+c
Total piping length between branch boxes and indoor units	m	95	d+e
Farthest piping length from the first joint	m	30	borcorf
Farthest piping length after branch box	m	25	d or e
Height difference (Outdoor upside / Outdoor downside)	m	50 / 40	





PUMY+ecodan Compatibility Table

ATW branch box connection compatibility table

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

Connectable indoor unit capacity

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

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

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

Outdoor capacity 12.5kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Max. 1.3kW *Exception	ally, one MS	Z-SF15VA or MSZ-AP15VF can be connected.
Outdoor capacity 14.0kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity 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

it (Heatii	ng only)>			Smal			
			EHST17D- VM2D	EHST20D- VM2D	EHST20D- YM9D	EHST30D- YM9ED	
	Туре			Heat	ting only		
	Expansion vessel		V	V	V	_	
	Booster heater (2/6/9 kW)		V	V	V	V	
	HxWxD	mm	1400x595 x680	1600×5	95×680	2050x595x680	
r)		kg	93	99	102	117	
Power su	pply (Phase / V / Hz)		~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	
ooster	Power supply (Phase / V / Hz)		~ /N,230V, 50Hz	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz	3 ~ ,400V, 50Hz	
eater	Capacity	kW	2	2	3+6	3+6	
	Current	Α	9	9	13	13	
	Breaker size	Α	16	16	16	16	
olume / N	/laterial	L/-	170 / Stainless steel	200 / Stair	nless steel	300 / Stainless steel	
mbient		°C	0 - 35 (≦80%RH)				
utdoor	Heating	°C	See outdoor unit spec table				
	Cooling	°C			-	2050x595x66 117 ~ /N,230V, 50Hz 3 ~ 400/2 50Hz 13 16 300 / Stainless steel	
leating	Room temperature	°C		1	0 - 30		
	Flow temperature	°C		2	0 - 60		
oolimg	Room temperature	°C			-		
	Flow temperature	°C			_		
	Max. hot water temperature	°C			70		
	Water heater energy efficiency	class		A ⁺		A - A+	
e level (P	WL)	dB (A)			41		
) Power su coster pater olume / N mbient utdoor eating coolimg	Expansion vessel Booster heater (2/6/9kW) HxWxD) Power supply (Phase / V / Hz) Capacity Current Breaker size olume / Material mbient utdoor Cooling eating Room temperature Flow temperature Flow temperature Flow temperature Flow temperature Flow temperature Max. hot water temperature	Type	Type	Type	Type	

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

<cylinder th="" ι<=""><th>unit (Heati</th><th>ing only)></th><th></th><th colspan="7">Medium capacity</th></cylinder>	unit (Heati	ing only)>		Medium capacity						
Model nam	e			EHST20C- VM2D	EHST20C- VM6D	EHST20C- YM9D	EHST30C- VM6ED	EHST30C- YM9ED		
		Туре			•	Heating only				
		Expansion vessel		V	V	V	_	_		
		Booster heater (2/6/9 kW)		V	V	V	V	レ		
Dimensions	;	HxWxD	mm	1	1600×595×68)	2050x5	95×680		
Weight (em	pty)		kg	110	110	112	122	124		
Control Boa	ırd Power sı	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	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz		
	heater	Capacity	kW	2	2+4	3+6	2+4	3+6		
		Current	Α	9	26	13	26	13		
		Breaker size	Α	16	32	16	32	16		
Domestic hot water tank	Volume / I	Materia l	L/-	200 / Stainless steel			300 / Stainless steel			
Guranteed	Ambient		°C	0 - 35 (≦80%RH)						
operating range *1	Outdoor	Heating	°C	See outdoor unit spec table						
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			_				
DHW tank		Max. hot water temperature	°C			70				
performano	е	Water heater energy efficiency	y class		A ⁺		,	A		
Sound pres	sure level (f	PWL)	dB (A)			40				
1 The Indee		ant marret ha frant fran								

*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 box<="" th=""><th>(Heating</th><th>only)></th><th></th><th>Small c</th><th>apacity</th><th>Med</th><th>dium capa</th><th>city</th><th>Large capacity</th></hydro>	(Heating	only)>		Sma ll c	apacity	Med	dium capa	city	Large capacity
Model name)			EHSD- VM2D	EHSD- YM9D	EHSC- VM2D	EHSC- VM6D	EHSC- YM9D	EHSE- YM9ED
		Туре				ŀ	leating on	ly	
		Expansion vessel		レ	レ	レ	レ	L	_
		Booster heater (2/6/9 kW)		V	レ	レ	レ	V	レ
Dimensions		HxWxD	mm		8	00x530x36	50		950×600×360
Weight (emp	oty)		kg	43	44	47	48	48	63
Control Boa	rd Power su	ipply (Phase / V / Hz)		~/N,230V, 50Hz					~ /N,230V, 50Hz
Heater					3 ~ ,400V, 50Hz	~ /N,230V, 50Hz	~ /N,230V, 50Hz	3 ~ ,400V, 50Hz	3 ~ ,400V, 50Hz
	Booster heater	Capacity	kW	2	3+6	2	2+4	3+6	3+6
		Current	Α	9	13	9	26	13	13
		Breaker size	Α	16	16	16	32	16	16
Guranteed	Ambient		L/-			0 - 35	(≦80%RI	H)	
operating range *1	Outdoor	Heating	°C		:	See outdo	or unit spe	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				_		
Sound press	sure level (F	WL)	dB (A)	4	1		40		45

*1 The indoor environment must be frost-free.

Indoor unit

Cylinder	unit (Reve	ersible)>			Small capacity			
Model nam	е			ERST17D-VM2D	ERST20D-VM2D	ERST30D-VM2ED		
		Туре		Heating and Cooling				
		Expansion vessel		レ	レ			
		Booster heater (2/6/9 kW)		レ	レ	レ		
Dimensions	5	HxWxD	mm	1400x595x680	2050x595x680			
Weight (em	pty)		kg	94	100	115		
Control Boa	rd Power s	upply (Phase / V / Hz)		~/N, 230V, 50Hz	~/N, 230V, 50Hz	~/N, 230V, 50Hz		
Heater	Booster	Power supply (V / Phase / Hz)		~/N, 230V, 50Hz	~/N, 230V, 50Hz	~/N, 230V, 50H		
	heater	Capacity	kW	2	2	2		
		Current	Α	9	9	9		
		Breaker size	Α	16	16	16		
Domestic hot water tank	Volume / I		L/-	170 / Stainless steel	16 16 200 / 300 / Stainless steel Stainless ste			
Guranteed	Ambient		°C	0 - 35 (≦ 80%RH)				
Weight (emp Control Board Heater Domestic not water tank Guranteed opperating Target Target	Outdoor	Heating	°C	See outdoor unit spec table				
range ^ i		Cooling	°C	See ou	ıtdoor unit spec ta	ıble *2		
Target	Heating	Room temperature	°C		10 - 30			
temperature		Flow temperature	°C		20 - 60			
range	Coolimg	Room temperature	°C		-			
		Flow temperature	°C		5 - 25			
DHW tank		Max. hot water temperature	°C		70			
performano	e	Water heater energy efficiency	y class	А	+	A - A ⁺		
Sound pres	sure level (I	PWL)	dB (A)		41			

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

Cylinder ι	unit (Reve	ersible)>		Medium	capacity
Model nam	e			ERST20C-VM2D	ERST30C-VM2ED
		Type		Heating a	nd Cooling
		Expansion vessel		V	
		Booster heater (2/6/9 kW)		レ	V
Dimensions	;	HxWxD	mm	1600x595x680	2050x595x680
Weight (em	pty)		kg	110	122
Control Boa	rd Power s	upply (Phase / V / Hz)		~/N, 230V, 50Hz	~/N, 230V, 50Hz
Heater	Booster	Power supply (V / Phase / Hz)		~/N, 230V, 50Hz	~/N, 230V, 50H
	heater	Capacity	kW	2	2
		Current	Α	9	9
		Breaker size	Α	16	16
Domestic hot water tank	Volume /	Materia l	L/-	200 / Stainless steel	300 / Stainless steel
Guranteed	Ambient		°C	0 - 35 (≦	80%RH)
operating range *1	Outdoor	Heating	°C	See outdoor (unit spec table
range " i		Cooling	°C	See outdoor ur	nit spec table *2
Target	Heating	Room temperature	°C	10	- 30
temperature range		Flow temperature	°C	20	- 60
rango	Coolimg	Room temperature	°C		-
		Flow temperature	°C	5 -	25
DHW tank		Max. hot water temperature	°C	7	0
performano	е	Water heater energy efficiency	/ class	A ⁺	Α
Sound pres	sure level (PWI)	dB (A)	4	10

^{*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 (rever<="" box="" td=""><td>sible)></td><td></td><td>Small capacity</td><td>Medium capacity</td><td>Large o</td><td>apacity</td></hydro>	sible)>		Small capacity	Medium capacity	Large o	apacity			
Model name			ERSD-VM2D	ERSC-VM2D	ERSE-MED	ERSE-YM9ED			
	Туре		Heating and Cooling						
	Expansion vessel		レ	レ	-	-			
	Booster heater (2/6/9 kW)		レ	レ	-	レ			
Dimensions	HxWxD	mm	8003	<530x360	950x60	00x360			
Weight (empty)		kg	44	48	62	64			
Control Board Power	supply (Phase / V / Hz)		~/N, 230V, 50Hz	~/N, 230V, 50Hz	~/N, 230V, 50Hz	~/N, 230V, 50Hz			
Heater Booster	Power supply (V / Phase / Hz)		~/N, 230V, 50Hz ~/N, 230V, 50Hz		-	3 ~, 400V, 50Hz			
heater	Capacity	kW	2	2	-	3+6			
	Current	Α	9	9	-	13			
	Breaker size	Α	16	16	-	16			
Guranteed Ambient		°C		0 - 35 (≦809	%RH)				
operating outdoor range *1	Heating	°C		See outdoor unit	spec table				
range "1	Cooling	°C		See outdoor unit s	pec table *2				
Target Heating	Room temperature	°C		10 - 30					
temperature	Flow temperature	°C		20 - 60					
range	Room temperature	°C		-					
	Flow temperature	°C		5 - 25					
Sound pressure level	(PWL)	dB (A)	41	40	4	5			

^{*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.



				NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW		
٠							Eco In	verter					
Outdoor	unit				Standa	ard model		Hyper Heat	ing model	Standard with ba	se heater model		
Model name)			SUZ- SWM40VA2	SUZ- SWM60VA2	SUZ- SWM80VA2	SUZ- SWM100VA	SUZ- SHWM40VAH	SUZ- SHWM60VAH	SUZ- SWM80VAH2	SUZ- SWM100VAH		
Refrigerant					R32*1								
Dimensions		H×W×D	mm	714×800×285	714×800×285	880×840×330	880×840×330	714×800×285	880×840×330	880×840×330	880×840×330		
Weight			kg	39	39 40 53 53 40 53.5 53.5								
Power suppl	ly (V / Phase / F	łz)					230 / 1-	-ph / 50					
Heating	A7W35*2	Nominal	kW	3.0	5.0	6.0	7.5	3.0	5.0	6.0	7.5		
		COP		5.11	4.85	5.10	4.85	4.77	4.95	5.10	4.85		
	A2W35*2	Nominal	kW	4.0	6.0	7.5	9.0	4.0	6.0	7.5	9.0		
		COP		3.90	3.62	3.50	3.12	3.61	3.47	3.31	3.00		
Average clin		Class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++		
outlet 35°C*3 ηS				200%	189%	187%	182%	176%	178%	178%	177%		
Average climate water Class			A++	A++	A++	A++	A++	A++	A++	A++			
outlet 55°C*	3	ηS		135%	136%	135%	134%	126%	128%	130%	129%		
DHW 200L L	.oad	Class		A ⁺	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺		
Profile*4		ηwh		147%	142%	144%	144%	142%	144%	144%	144%		
Max outlet v	vater temperat	ure	°C	60	60	60	60	60	60	60	60		
Cooling	A35W7*2	Nominal	kW	4.5	5.0	6.7	7.3	4.5	6.0	6.7	7.3		
		EER		3.31	3.18	3.20	3.00	3.33	3.28	3.20	3.00		
	A35W18*2	Nominal	kW	5.6	6.0	6.7	8.1	5.6	6.0	6.7	8.1		
		EER		4.71	4.65	5.06	4.44	4.70	5.21	5.06	4.44		
PWL (Heatin	g)* ⁵		dB(A)	57	60	60	62	58	60	60	62		
Max operation	ng current		Α	13.5	13.5	17.3	17.3	13.5	17.3	17.3	17.3		
Breaker size			А	16	16	20/16*6	20/16*6	16	20/16*6	20/16*6	20/16*6		
Piping	Diameter	Liquid/Gas	mm	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7		
	Length	Out-In	m	2-26	2-26	2-46	2-46	2-26	2-46	2-46	2-46		
	Height	Out-In	m	Max. 26	Max. 26	Max. 30	Max. 30	Max. 26	Max. 30	Max. 30	Max. 30		
Guaranteed	Heating		°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C		
Operating Range	DHW		°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C		
	Cooling		°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C		

				Pow	er Inverter, Heating o	nly		ZUBADAN, I	Heating only	
Model name				PUD- SWM80V/YAA	PUD- SWM100V/YAA	PUD- SWM120V/YAA	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
Weight			kg	101/114	/114 105/118 105/118 102/115 108/121 108/12					110/122
Power supply	y (V / Phase / H	lz)				VAA: 230 /	1-ph / 50, YAA: 400 / 3	-ph / 50		
Heating	A7W35*2	Nominal	kW	6.0	8.0	10.0	6.0	8.0	10.0	12.0
		COP		4.76	5.00	4.70	5.03	5.00	4.80	4.70
	A2W35*2	Nominal	kW	8.0	10.0	12.0	8.0	10.0	12.0	14.0
		COP		3.55	3.30	3.24	3.75	3.45	3.30	3.05
Average climate water Class				A+++	A+++	A+++	A+++	A+++	A+++	A+++
outlet 35°C*3		ης		178%/176%	178%/177%	177%/176%	181%/179%	180%/178%	179%/177%	179%/177%
Average clim		Class		A++	A++	A++	A++	A++	A++	A++
outlet 55°C*3	3	ης		131%/130%	131%/130%	129%/128%	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
Profile (Average	ge climate)* ⁴	ηwh		148%/121%	148%/121%	148%/121%	148%/121%	148%/121%	14%/121%	145%/121%
Max outlet w	ater temperati	ıre	°C	60	60	60	60	60	60	60
PWL (Heating	g)* ⁵		dB(A)	56	59	60	56	59	60	62
Max operatir	ng current		Α	22/8	26/10	28/12	22/8	26/10	28/12	35/12
Breaker size			Α	25/16	30/16	32/16	25/16	30/16	32/16	40/16
Piping	Diameter	Liquid/Gas	mm	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7
	Length	Out-In	m	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30	2 - 25
	Height	Out-In	m	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30	Max. 25
Guaranteed Operating	Heating		°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
Range	DHW		°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-28°C~35°C	-28°C~35°C	-28°C~35°C	-28°C~35°C

^{*1} Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.). *3 % values are measured based on EN14825.
*4 Mwh values are measured based on EN16147. *5 Sound power levels are measured based on EN12102. *6 In case of jumper wire cut.



^{*}Rated capacity is at conditions A2W35. (according to EN14511) *SUZ rated capacity is at conditions A7W35.



				NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW			
					Power Inverter				ZUBADAN					
Model name				PUZ-SWM80V/YAA	PUZ-SWM100V/YAA	PUZ-SWM120V/YAA	PUZ-SWM140V/YAA	PUZ-SHWM80V/YAA	PUZ-SHWM100V/YAA	PUZ-SHWM120V/YAA	PUZ-SHWM140V/YAA			
Refrigerant			mm		R32*1									
Dimensions		HxWxD	kg		1040×1050×480									
Weight				104.5/113.5 105.5/113.5 112/124.5 113.5/124.5				106/115	106.5/115	113.5/125.5	114.5/126			
Power suppl	y (V / Phase /	Hz)	kW			\	/AA: 230 / 1-ph / 50,	YAA: 400 / 3-ph / 5	0					
Heating	A7W35*2	Nominal		6.00	8.00	10.00	12.00	6.00	8.00	10.00	12.00			
		COP	kW	5.00	5.00	4.85	4.75	5.05	5.00	4.85	4.80			
	A2W35*2	Nominal		8.00	10.00	12.00	14.00	8.00	10.00	12.00	14.00			
		COP		3.65	3.45	3.25	3.24	3.75	3.50	3.30	3.24			
Average clim	nate water	Clas	s	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++			
outlet 35°C*3 ηs				184%/183%	180%/180%	178%/178%	177%/177%	187%/187%	185%/185%	181%/181%	184%/184%			
Average climate water Class				A++	A++	A++	A++	A++	A++	A++	A++			
outlet 55°C*3 ηs			130%/130%	134%/133%	132%/132%	135%/135%	133%/133%	138%/137%	138%/137%	142%/142%				
DHW 200(L)	DHW 200(L) Load Profile Class		s	A+	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺			
(Average clir	mate)*4	ηwh	1	134%	134%	134%	123%	134%	134%	134%	123%			
Max outlet w	vater tempera	ature	°C		60				60					
Cooling	A35W7*2 Nomina		kW	7.10	9.00	10.00	12.50	7.10	9.00	10.00	12.50			
		EER		3.20	2.95	2.85	2.60	3.20	2.95	2.85	2.60			
	A35W18*2	Nominal	kW	8.00	10.00	12.00	14.00	8.00	10.00	12.00	14.00			
		EER		4.90	4.55	4.30	3.62	4.90	4.55	4.30	3.62			
PWL (Heating	g)*5		dB(A)	54	58	58	58	54	58	58	58			
Max operatir	ng current		Α	17/8	22/9	28/12	28/12	19/8	27/9	28/12	35/12			
Breaker size			Α	20/16	25/16	32/16	32/16	25/16	30/16	32/16	40/16			
Piping	Diameter	Gas	mm		ø12.7 (15.88)*6				ø12.7 (15.88)*6					
		Liquid	mm		6.35				6.35					
	Length	Out-In	m	50	50	30*7	30*7	50	50	30*7	30* ⁷			
	Height	Out-In	m		30				30					
Guaranteed	Cooling		°C	10°C~52°C				10°C~52°C						
operation	Heating		°C		-25°C ~24°C			-30°C~24°C						
range	DHW		°C		-25°C ~42°C				-30°C ~42°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 atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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

*3 ns values are measured based on EN14825.

*4 nwh values are measured based on EN16147.

*5 Sound power levels are measured based on EN12102.

*6 A diameter of 15.88 is necessary for cooling operation. Please refer to our installation manual for details.

*7 Maximum piping length can be up to 50m for heating only operation.



Jata oo.	r unit					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			kg	92/104	114/126	118/130	136	136				
Power suppl	y (V / Phase / H	z)		VAA, VHA: 230 / 1-ph / 50, YAA, YHA, YKA: 400 / 3-ph / 50								
Heating	A7W35*2	Nominal	kW	8.0	11.2	16.0	22.0	25.0				
		COP		4.40	4.46	4.10	4.20	4.00				
	A2W35*2	Nominal	kW	7.5	10.0	12.0	16.0	20.0				
		COP		3.40	3.32	3.24	3.11	2.80				
Average clin		Class		A++	A++	A++	A++	A++				
outlet 35°C*3		ης		162/160	167/165	162/162	161	163				
Average clin		Class		A++	A++	A++	A++	A++				
outlet 55°C*3		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 v	vater temperati	ıre (°C)		60	60	60	-	-				
Cooling	A35W7*2	5W7*2 Nominal kW EER		7.1	10.0	12.5	16.0	20.0				
				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 (Heatin	g)* ⁵		dB(A)	58	60	72	78	78				
Max operation	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				

				ZUBADAN							
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, YAA, YHA, YKA: 400 / 3-ph / 50							
Heating	A7W35*2	Nominal	kW	8.0	11.2	11.2 14.0					
		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 climate water outlet 35°C*3 ηs			A++	A++	A++	A++					
			169/167	171/169	163	164					
Average climate water		Class		A++	A++	A++	A++				
outlet 55°C*3	outlet 55°C*3 η _s			133/132	135/135	127	127				
DHW 200L(L)/		Class		A+/A	A+/A	A+ / A	-				
Profile (Average	ge climate)*4	ηwh		145/120	145/120	138/118					
Max outlet w	ater temperatu	ire (°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		А	22/13	28/13	13	20				
Breaker size			А	25/16	32/16	16	25				
Piping	Diameter	Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	12.7/25.4				
	Length	Out-In	m	75	75	75	80				
	Height	Out-In	m	30	30	30	30				
Guaranteed	Heating		°C	-28°C~21°C	-28°C~21°C	-28°C~21°C	-25°C~21°C				
Operating Range	DHW		°C	-28°C~35°C	-28°C~35°C	-28°C~35°C	-25°C~35°C				
	Cooling		°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C				

^{*1} Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
*2 Air-to-Water values are measured based on EN14825. *4 Nwh values are measured based on EN16147. *5 Sound power levels are measured based on EN12102.

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





Packaged Type Specifications

<Cylinder unit (Reversible)>

Model na	me					ERPT17X- VM2D	ERPT20X- VM2D	ERPT30X- VM2FD		
			Тур				eating and cooli			
				ersion heater			eating and cooli			
						-		-		
			-	ansion vessel		/	1	-		
			Boo	ster heater		1	1	1		
Dimensio	ns		H×V	V×D	mm	1400×595×680	1600×595×680	2050×595×680		
Weight (e	empty)				kg	86	94	107		
Control board power supply (Phase / V / Hz)							~/N, 230V, 50Hz	2		
Heater Boost			Pow	er supply (Phase / V /	Hz)	~/N, 230V, 50Hz	~/N, 23	0V, 50Hz		
	heater		Capacity			2	2	2		
				rent	Α	9	9	9		
			Brea	Breaker size		16	16	16		
	L 4 +2 -		Pow	er supply (Phase / V /	Hz)	-	-	-		
			Cap	acity	kW	-	-	-		
		Cu		Current		-	-	-		
			Brea	aker size	Α	-	-	-		
Domestic hot water		Volu	me/	Material	L/-	170 / Stainless steel	200 / Stainless steel	300 / Stainless steel		
Guarante		Amb	ient		°C	0 - 35 (≦80%RH)				
operating range*1	9	Outd	loor	Heating	°C	See outdoor unit spec table				
range .				Cooling	°C	See ou	ıtdoor unit spec	table*4		
Target		Heat	ing	Room temperature	°C		10~30			
temperat range	ure			Flow temperature	°C		20~60			
range		Cool	ing	Room temperature	°C		-			
				Flow temperature	°C	5~25				
DHW tan		Max.	. hot	water temperature	°C		70			
performa	nce	Wate	er hea	ater emergy efficiency	class		A+	Α		
Sound pressure level (PWL))	dB (A)	40				

- *1 The indoor environment must be frost-free.
 *2 Do not fit immersion heaters without thermal cut-out. Use only Mitsubishi Electric service parts as a direct replacement.
 *3 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower than maximum outlet water of outdoor unit.
 For the maximum outlet water of outdoor unit, refer to outdoor unit data book.
 *4 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.





Packaged Type Specifications

<hydro< th=""><th>box</th><th>(Rev</th><th>ersil</th><th>ole)></th><th></th><th>NEW</th></hydro<>	box	(Rev	ersil	ole)>		NEW
Model n	ame					ERPX- VM2D
			Тур	e		Heating and cooling
			Imn	nersion heater		-
			Exp	ansion vessel		/
			Boo	ster heater		/
Dimensi	ons		H×V	V×D	mm	800×530×360
Weight (empty)				kg	33
Control I	board p	ower	supp	ly (Phase / V / Hz)		~/N, 230V, 50Hz
Heater	Boost		Pov	er supply (Phase / V /	Hz)	~/N, 230V, 50Hz
	heate	r	Cap	acity	kW	2
			Cur	rent	Α	9
			Bre	aker size	Α	16
Guarante		Amb	oient		°C	0~35 (≦80%RH)
operatin range*1	g	Outo	door	Heating	°C	See outdoor unit spec table
rungo				Cooling	°C	See outdoor unit spec table *2
Target		Heat	ting	Room temperature	°C	10~30
tempera range	ture			Flow temperature	°C	20~60
·unge		Cool	ling	Room temperature	°C	-
				Flow temperature	°C	-
Sound p	ressure	level	(PW	L)	dB (A)	40

^{*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.



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

Outdoor	unit						(NEW)		
Model name				PUZ- WM50VHA	PUZ- WM85V/YAA	PUZ- WM112V/YAA	PUZ- HWM140V/YHA		
Refrigerant				R32*1					
Dimensions		H×W×D	mm	943×950×330	1020×1050×480	1020×1050×480	1350×1020×330		
Weight			kg	71	98/111	119/132	132/143		
Power supply	(V / Phase /	Hz)		VHA • VAA	: 230 / 1-ph / 50	YHA •YAA: 400) / 3-ph / 50		
Heating	A7W35*2	Nominal kW		5.0	8.5	11.2	14.0		
		COP		5.00	4.80	4.70	4.46		
	A2W35*2	Nominal	kW	5.0	8.5	11.2	14.0		
		COP		3.70	3.51	3.44	3.15		
Average clim		Class	;	A+++	A+++	A+++	A+++		
outlet 35°C*3				183	193/190	191/189	176/175		
			Class		A++	A++	A++		
outlet 55°C*3		ηs		129	139/138	134/133	132/131		
DHW 200L(L) I		Class	3	A+	A+	A+	A+		
Profile (Average	ge climate)*4	η _{wh}	η _{wh}		145	148	130		
Max outlet w	ater tempera	ature (°C)		60	60	60	60		
Cooling	A35W7*2	Nominal kW EER		4.5	7.5	10.0	11.9		
				3.40	3.15	3.30	3.00		
	A35W18*2	Nominal	kW	4.5	7.5	10.0	11.1		
		EER		5.00	4.90	4.90	4.10		
PWL (Heating	g)* ⁵		dB(A)	61	58	60	67		
Max operatin	g current		А	13.0	22.0/11.5	28.0/13.0	35.0/13.0		
Breaker size			Α	16	25/16	32/16	40/16		
Piping	Diameter	Liquid/Gas	mm	-	-	-	-		
	Length	Out-In	m	-	-	-	-		
	Height	Out-In	m	-	-	-	-		
Guaranteed	Heating		°C	-20°C~21°C	-20°C~21°C	-25°C~21°C	-28°C~21°C		
Operating Range	DHW		°C	-20°C~35°C	-20°C~35°C	-25°C~35°C	-28°C~35°C		
nalige	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 potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
 *2 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).

- *2 Air-to-water values are measured based on EN145 input is not included.).

 *3 ns values are measured based on EN16147.

 *4 nwh values are measured based on EN16147.

 *5 Sound power levels are measured based on EN12102.

Optional Parts

Split type <Indoor unit>

Parts name	Model name	Cylinder	Hydrobox	Remarks
Wireless remote controller	PAR-WT50R-E	V	V	
Wireless receiver	PAR-WR51R-E	V	V	
Thermistors	PAC-SE41TS-E	V	V	For room temp.
	PAC-TH011-E	V	レ	For buffer and zone (flow and return temp.)
	PAC-TH011TK2-E	-	V	For tank temp. (5m)
	PAC-TH012HT-E	V	V	For boiler and buffer (5m)
Immersion heater	PAC-IH01V2-E	V	-	1Ph 1kW
	PAC-IH03V2-E	レ	-	1Ph 3kW
Wi-Fi interface	MAC-567IF-E	V	V	
2 Zone kit	PAC-TZ02-E	V	V	

<Outdoor unit>

Parts name	Model name	R:	32 (Eco Inverte	er)	R32 Heati	ng only (Powe	er Inverter)	F	R32 Heating or	nly (ZUBADAN	1)
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUD-SWM80V/YAA	PUD-SWM100V/YAA	PUD-SWM120V/YAA	PUD-SHWM80V/YAA	PUD-SHWM100V/YAA	PUD-SHWM120V/YAA	PUD-SHWM140V/YAA
Connector for drain hose heater signal output	PAC-SE60RA-E	-	-	-	V	V	\ \	V	L	L	V
Air discharge guide	MAC-886SG-E	V	V	V	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	-	-	-	-	-	-	-	-
	PAC-SH96SG-E*1	-	-	-	レ*1	レ*1	レ*1	レ*1	レ*1	レ*1	レ*1
Air protection guide	PAC-SH63AG-E	-	-	-	-	-	-	-	-	-	-
	PAC-SH95AG-E*1	-	-	-	レ*1	レ*1	レ*1	レ*1	レ *1	レ*1	レ*1
Attachement	PAC-SJ82AT-E	-	-	-	V	V	V	V	V	V	V
Drain socket*2	PAC-SG61DS-E	-	-	-	V	V	V	V	V	V	V
Centralized drain pan*2	PAC-SG64DP-E	-	-	-	-	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	-	-	-	-	-	-	-
	PAC-SJ83DP-E	-	-	-	V	V	V	V	V	V	V
Base heater	MAC-642BH-U1	V	V	V	-	-	-	-	-	-	-
Control/Service tool	PAC-SK52ST	-	-	-	V	V	V	レ	V	V	V

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

Parts name	Model name		R41	0A (Power Inv	erter)			R410A (Z	UBADAN)	
		PUHZ-SW75V/YAA	PUHZ-SW100V/YAA	PUHZ-SW120V/YHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80V/YAA	PUHZ-SHW112V/YAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2
Connector for drain hose heater signal output	PAC-SE60RA-E	V	V	V	V	V	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*2	PAC-SG61DS-E	V	V	V	V	V	V	V	-	-
Centralized drain pan*2	PAC-SG64DP-E	-	-	V	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	V	V	-	-	-	-
	PAC-SJ83DP-E	V	V	-	-	-	V	レ	-	-
Base heater	MAC-642BH-U1	-	-	-	-	-	-	-	-	-
Control/Service tool	PAC-SK52ST	V	V	V	V	V	V	V	V	V

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

Interface/FlowTemperature Controller

Split type

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

Optional Parts

Packaged type <Indoor unit>

Parts name	Model name	Cylinder	Hydrobox	Remarks
Wireless remote controller	PAR-WT50R-E	V	V	
Wireless receiver	PAR-WR51R-E	V	V	
Thermistors	PAC-SE41TS-E	V	V	For room temp.
	PAC-TH011-E	<u></u>	v	For buffer and zone (flow and return temp.)
	PAC-TH011TK2-E	-	V	For tank temp. (5m)
	PAC-TH012HT-E	V	レ	For boiler and buffer (5m)
Immersion heater	PAC-IH01V2-E	✓ (Except EHPT20X-MHEDW)	-	1Ph 1kW
	PAC-IH03V2-E	✓ (Except EHPT20X-MHEDW)	-	1Ph 3kW
Wi-Fi interface	MAC-567IF-E	V	L	
2 Zone kit	PAC-TZ02-E	V	V	

<Outdoor unit>

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

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

Interface/FlowTemperature 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

						_	_	_	_	_	_		_	R32		_	_		_			_							_		_	_	_	R	410	A	_	_			_		_
		AT۱	N	Eco	Inv	erte	r	Ecc	Inv	erte	r-	Pov	ver	Inve	rter	Pov	ver		Zul	oada	n		Zub	ada	n		Pow	/er l	nve	rter		ZU	BAD	AN		Mr.S	S+ P	UM	Υ				_
		+A1	ГА					Bas	se he	eate	r	rev	ersi	ble		inv	erte	r	rev	ersil	ole		Hea	ting	onl	y																	
																hea	ating																										
																onl	У																										
																				_	$_{\perp}$	7		⋖	A	A											Т		П				П
										7	l_	⋖	¥	¥	₹	≱	AA	Ą	₹	₹	₹I	₹	X	≸∣	≸	Ϋ́	4	≴	¥	_	⋖	ΑA	₹	₹	8	2		Ι.				_	L
				\ \ \ \ \	VA2	W ₂	×	\¥	\AH	\\	×	8	Š	Š	Š	>	8	3//S	§	, 00C	200	\$0	8	8	200	40V	₹	\$	ΛV	ΥK	X	>	2	\ tot	8	₹	/A 45	£ }	3	₹	<u>₩</u>	ΥM	Ϋ́
		ΛG	9	SUZ-SWM40VA2	SUZ-SWM60VA2	SUZ-SWM80VA2	SUZ-SWM100VA	SUZ-SWM40VAH	SUZ-SWM60VAH	SUZ-SWM80VAH2	SUZ-SWM100VAH	PUZ-SWM80V/YAA	PUZ-SWM100V/YAA	PUZ-SWM120V/YAA	PUZ-SWM140V/YAA	PUD-SWM80V/VAA	PUD-SWM100V/YAA	PUD-SWM120V/S AA	PUZ-SHWM80V/YAA	PUZ-SHWM100V/YAA	PUZ-SHWM120V/YAA	PUZ-SHWM140V/YAA	PUD-SHWM80V /YAA	PUD-SHWM100V/VAA	PUD-SHWM120V/VAA	PUD-SHWM140V/VAA	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	DI IAAN DAGONINA		PUMY-P125VKM5	PUMY-P140VKM5	PUMY-P112YKM4	PUMY-P125YKM4	PUMY-P140YKM4
		PXZ-4F75VG	PXZ-5F85VG	N/S	N/S	Š	Š	×	×	Š	Š	×	Š	Š	Š	Š	Š	Š	Ĭ	¥	₹	₹	₹	[꽃	₹	¥.	Ş.	Ş.	-SV	-SV	l S-	-SH	F.	F.	F.	Ē	į	Ę į	5	4	<u>+</u>	-P1:	1-P-1
		\Z	(Z-5	NZ-8	3-Z	Š	Ϋ́	Ϋ́	Ϋ́	2.5	75	JZ-S	7Z-S	JZ-S	7Z-S	9	9	9	JZ-S	7Z-S	75.S	7Z-S	9	9	ĕ	9-6	뵈	Ħ	JHZ	JHZ	ЭHZ	ЯĽ	Ž	ŽH	P	P	1	٤	ξĺ	ξl	٤I	Ě	É
		_	-	S	S	100	S	S	-	S	S	<u> </u>	4	4	굽	굽	조	곱	-	교	<u> </u>	₫	4	리	₹	4	\rightarrow	집	4	4	4	4	교	٦	교	=	┦	<u> </u>	4	<u>~ </u>	<u>~ </u>	₹	교
	EHST17D-VM2D	•	•	•	•	•	•	•	•	•	•	•			_	_	_		•						_		•	-		_	L		L		⊢	-	+	+	+	\dashv	\dashv		⊣
0,	EHST20D-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				_				-	-	+	+	\downarrow	\dashv	\dashv		L
-	EHST20D-YM9D	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		-		-	•	•	•	\dashv		_	L	L	L		\vdash	-	+	+	+	\dashv	\dashv		⊢
	EHST30D-YM9ED	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-		_		_	_			┝	<u> </u>	4.	_	_	_		_	Ļ
L	EHST20C-VM2D	_	_			_	_	_	_			-			_	_	_		_		\dashv	_	\dashv	_	_	-	-	•	•		_	•	•	•	-	•		-	•	•	•	•	
	EHST20C-VM6D	_	_				_	_	_	H	H	┡		_	<u> </u>	-	<u> </u>	Ш	H		\dashv	_		-			-	•	•		_	•	•	•	╄	•	4	•	•	•	•	•	•
L	EHST20C-YM9D	L	<u> </u>	Ш		L	<u> </u>	<u> </u>	<u> </u>			┡		_	L	<u> </u>	<u> </u>	Н	L	Н	\dashv	_	\dashv	\dashv	_	\dashv	-	•	•		<u> </u>	•	•	•	┝	-	+	+	+	\dashv	\dashv		⊢
	EHST30C-VM6ED	<u> </u>	_				_	L	L		H	┡	_	_	L	H	H	Ш	H	Ш	\dashv	_	-	-		-	-	•	•		L	•	•	_	╄	_	+	+	\dashv	\dashv	\dashv		⊣
	EHST30C-YM9ED	Ļ	_			Ļ	_	_	_	Ļ	Ļ	_	<u> </u>	<u> </u>		<u> </u>	<u> </u>		Ļ		_	_	\Box	_	_		_	•	•		_	•	•	•	╄	-	+	4	\dashv	4	4		⊢
	ERST17D-VM2D	•	•	•	•	•	•	•	•	•	•	•	_	_	_	L	L		•			_			_		•	_			_				-	-	+	+	+	\dashv	\dashv		⊢
-,	ERST20D-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	_			<u> </u>	<u> </u>		L	┝	-	+	+	+	\dashv	\dashv		⊢
	ERST30D-VM2ED ERST20C-VM2D	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		_		L	_		_	\vdash	-	+	+	+	\dashv	\dashv		⊢
	ERST20C-VM2D	L	_				_	_	_			_				_	_		_		\dashv	_		\dashv	_		-	•	•		_	•	_	•	-	-	+	\perp	+	\dashv	\dashv		\vdash
Heating only			•	•	•															•				•	•		•	•	•		H	•	•	•	\vdash	-	+	+	\dashv	\dashv	\dashv		⊢
° '	EHSD-VM2D		•	-		•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	\rightarrow	_	-	-					H		H	H	⊬	-	+	+	+	\dashv	\dashv		⊢
III UI	EHSC-VM2D	•	•	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				_				\vdash		+.	١,	•			_	L
	EHSC-VM2D	<u> </u>	H			_	H	H	H		H	┢				-	-		\vdash		\dashv	_	\dashv	\dashv	-	-	\dashv	•	•		_	•	•	_	┢	•			-	-	•	-	H
L		┝	_			_	_	_	_			┢			_	_	_		_		\dashv	-	\dashv	\dashv	-	\dashv	\dashv	•	•		_	•	•	_	\vdash	-			_	-	•	-	H
	EHSC-YM9D EHSE-YM9ED	\vdash	\vdash	Н	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\dashv	\dashv	\vdash	\dashv	-	\vdash	\dashv	•	•		•	_	-	-	•	-	+	<u> </u>	4	•	-	_	-
	ERSD-VM2D		•	•	•	•		•		•	•		•				•		•	•		•		•	•	•	•	-		_	_	H	\vdash	⊢	-	\vdash	+	+	+	\dashv	\dashv		\vdash
	ERSC-VM2D	_	-		_	_	-	-	-	-	-	-	-	-	_	_	-	•	-	_	•	•		•	•	•	•	•	•		\vdash	•	•	•	\vdash	\vdash	+	+	+	+	\dashv		\vdash
,	ERSE-MED	\vdash	\vdash	Н	\vdash		\vdash	\vdash	\vdash		\vdash	\vdash			\vdash	\vdash	\vdash	\vdash	\vdash	Н	\dashv	\dashv	\vdash	\dashv	-	-	\dashv	-	•		•	_	-	_	•	\vdash	+	+	+	+	\dashv		\vdash
L	ERSE-MED	\vdash	_	Ш	Ш	L	<u> </u>	<u> </u>	<u> </u>	┡	╙	\vdash	<u> </u>	_	_	<u> </u>	<u> </u>	\perp	_	\vdash	_	_		_	_		_			•		╙	\vdash	\vdash			+	4	\dashv	\dashv	_		⊢

Packaged indoor/outdoor unit

Packaged indo	or/outdoor unit			R3:	2
			ow		ZUBADAN
		PUZ-WM50VHA	PUZ-WM85V/YAA	PUZ-WM112V/YAA	PUZ-HWM140V/YHA
Reversible	ERPT17X-VM2D	•	•		
Cylinder	ERPT20X-VM2D	•	•	•	•
	ERPT30X-VM2ED		•	•	•
Reversible Hydro box	ERPX-VM2D	•	•	•	•

MELCloud (Wi-Fi Interface) for ecodan

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

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

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

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



Key Control and Monitoring Features

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

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

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



			For m	edium-t	emperatu	ıre applic	cation			For	low-ten	perature	applicat	ion	
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
SUZ-SWM40VA2(-SC)	EHST17D-***D	A++	A+	5.0	133	147	41	57	A+++	A+	5.0	196	147	41	57
	ERST17D-***D	A++	A+	5.0	135	147	41	57	A+++	A+	5.0	200	147	41	57
	EHST20D-***D	A++	A+	5.0	133	147	41	57	A+++	A+	5.0	196	147	41	57
	ERST20D-***D	A++	A+	5.0	135	147	41	57	A+++	A+	5.0	200	147	41	57
	EHST30D-***D	A++	A+	5.0	133	130	41	57	A+++	A+	5.0	196	130	41	57
	ERST30D-***D	A++	A+	5.0	135	130	41	57	A+++	A+	5.0	200	130	41	57
	EHSD-***D	A++	-	5.0	133	-	41	57	A+++	-	5.0	196	-	41	57
	ERSD-***D	A++	-	5.0	135	-	41	57	A+++	_	5.0	200	-	41	57
SUZ-SHWM40VAH(-SC)	EHST17D-***D	A+	A+	5.0	124	139	41	58	A++	A+	5.0	172	139	41	58
	ERST17D-***D	A++	A+	5.0	126	139	41	58	A+++	A+	5.0	176	139	41	58
	EHST20D-***D	A+	A+	5.0	124	142	41	58	A++	A+	5.0	172	142	41	58
	ERST20D-***D	A++	A+	5.0	126	142	41	58	A+++	A+	5.0	176	142	41	58
	EHST30D-***D	A+	A+	5.0	124	128	41	58	A++	A+	5.0	172	128	41	58
	ERST30D-***D	A++	A+	5.0	126	128	41	58	A+++	A+	5.0	176	128	41	58
	EHSD-***D	A+	-	5.0	124	-	41	58	A++	-	5.0	172	-	41	58
	ERSD-***D	A++	-	5.0	126	-	41	58	A+++	-	5.0	176	-	41	58
SUZ-SWM60VA2(-SC)	EHST17D-***D	A++	A+	6.0	134	139	41	60	A+++	A+	6.0	185	139	41	60
	ERST17D-***D	A++	A+	6.0	136	139	41	60	A+++	A+	6.0	189	139	41	60
	EHST20D-***D	A++	A+	6.0	134	142	41	60	A+++	A+	6.0	185	142	41	60
	ERST20D-***D	A++	A+	6.0	136	142	41	60	A+++	A+	6.0	189	142	41	60
	EHST30D-***D	A++	A+	6.0	134	128	41	60	A+++	A+	6.0	185	128	41	60
	ERST30D-***D	A++	A+	6.0	136	128	41	60	A+++	A+	6.0	189	128	41	60
	EHSD-***D	A++	-	6.0	134	-	41	60	A+++	-	6.0	185	-	41	60
	ERSD-***D	A++	_	6.0	136	-	41	60	A+++	-	6.0	189	-	41	60
SUZ-SHWM60VAH(-SC)	EHST17D-***D	A++	A+	6.0	126	145	41	60	A+++	A+	6.0	175	145	41	60
	ERST17D-***D	A++	A+	6.0	128	145	41	60	A+++	A+	6.0	178	145	41	60
	EHST20D-***D	A++	A+	6.0	126	144	41	60	A+++	A+	6.0	175	144	41	60
	ERST20D-***D	A++	A+	6.0	128	144	41	60	A+++	A+	6.0	178	144	41	60
	EHST30D-***D	A++	A+	6.0	126	139	41	60	A+++	A+	6.0	175	139	41	60
	ERST30D-***D	A++	A+	6.0	128	139	41	60	A+++	A+	6.0	178	139	41	60
	EHSD-***D	A++	-	6.0	126	-	41	60	A+++	-	6.0	175	-	41	60
	ERSD-***D	A++	_	6.0	128	_	41	60	A+++	_	6.0	178	-	41	60

			For m	edium-t	emperatu	ıre applic	ation			For	low-tem	perature	applicat	ion	
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
SUZ-SWM80VA2	EHST17D-***D	A++	A+	7.0	133	145	41	60	A+++	A+	7.0	183	145	41	60
COZ OWNICOWYZ	ERST17D-****D	A++	A+	7.0	135	145	41	60	A+++	A+	7.0	187	145	41	60
	EHST20D-***D	A++	A+	7.0	133	144	41	60	A+++	A+	7.0	183	144	41	60
	ERST20D-***D	A++	A+	7.0	135	144	41	60	A+++	A+	7.0	187	144	41	60
	EHST30D-***D	A++	A+	7.0	133	139	41	60	A+++	A+	7.0	183	139	41	60
	ERST30D-***D	A++	A+	7.0	135	139	41	60	A+++	A+	7.0	187	139	41	60
	EHSD-***D	A++	_	7.0	133	_	41	60	A+++	_	7.0	183	-	41	60
	ERSD-***D	A++	_	7.0	135	_	41	60	A+++	_	7.0	187	-	41	60
SUZ-SWM80VAH2	EHST17D-****D	A++	A+	7.0	128	145	41	60	A+++	A+	7.0	175	145	41	60
	ERST17D-***D	A++	A+	7.0	130	145	41	60	A+++	A+	7.0	178	145	41	60
	EHST20D-***D	A++	A+	7.0	128	144	41	60	A+++	A+	7.0	175	144	41	60
	ERST20D-***D	A++	A+	7.0	130	144	41	60	A+++	A+	7.0	178	144	41	60
	EHST30D-***D	A++	A+	7.0	128	139	41	60	A+++	A+	7.0	175	139	41	60
	ERST30D-***D	A++	A+	7.0	130	139	41	60	A+++	A+	7.0	178	139	41	60
	EHSD-***D	A++	-	7.0	128	-	41	60	A+++	-	7.0	175	-	41	60
	ERSD-***D	A++	-	7.0	130	-	41	60	A+++	-	7.0	178	-	41	60
SUZ-SWM100VA	EHST17D-***D	A++	A+	8.0	133	145	41	62	A+++	A+	8.0	179	145	41	62
	ERST17D-***D	A++	A+	8.0	134	145	41	62	A+++	A+	8.0	182	145	41	62
	EHST20D-***D	A++	A+	8.0	133	144	41	62	A+++	A+	8.0	179	144	41	62
	ERST20D-***D	A++	A+	8.0	134	144	41	62	A+++	A+	8.0	182	144	41	62
	EHST30D-***D	A++	A+	8.0	133	139	41	62	A+++	A+	8.0	179	139	41	62
	ERST30D-***D	A++	A+	8.0	134	139	41	62	A+++	A+	8.0	182	139	41	62
	EHSD-***D	A++	-	8.0	133	-	41	62	A+++	-	8.0	179	-	41	62
	ERSD-***D	A++	-	8.0	134	-	41	62	A+++	-	8.0	182	-	41	62
SUZ-SWM100VAH	EHST17D-***D	A++	A+	8.0	127	145	41	62	A++	A+	8.0	174	145	41	62
	ERST17D-***D	A++	A+	8.0	129	145	41	62	A+++	A+	8.0	177	145	41	62
	EHST20D-***D	A++	A+	8.0	127	144	41	62	A++	A+	8.0	174	144	41	62
	ERST20D-***D	A++	A+	8.0	129	144	41	62	A+++	A+	8.0	177	144	41	62
	EHST30D-***D	A++	A+	8.0	127	139	41	62	A++	A+	8.0	174	139	41	62
	ERST30D-***D	A++	A+	8.0	129	139	41	62	A+++	A+	8.0	177	139	41	62
	EHSD-***D	A++	-	8.0	127	-	41	62	A++	-	8.0	174	-	41	62
	ERSD-***D	A++	-	8.0	129	-	41	62	A+++	-	8.0	177	-	41	62
PUZ-SWM80VAA	EHST17D-***D	A++	A+	8.0	129	134	41	54	A+++	A+	8.0	181	134	41	54
	ERST17D-***D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	184	134	41	54
	EHST20D-***D	A++	A+	8.0	129	134	41	54	A+++	A+	8.0	181	134	41	54
	ERST20D-***D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	184	134	41	54
	EHST30D-***D	A++	A+	8.0	129	133	41	54	A+++	A+	8.0	181	133	41	54
	ERST30D-****D	A++	A+	8.0	130	133	41	54	A+++	A+	8.0	184	133	41	54
	EHSD-***D	A++	-	8.0	129	-	41	54	A+++	-	8.0	181	-	41	54
	ERSD-***D	A++	_	8.0	130	_	41	54	A+++	-	8.0	184	-	41	54

			For m	nedium-t	emperatu	ıre applio	ation			For	low-ten	perature	applicat	ion	
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
PUZ-SWM80YAA	EHST17D-***D	A++	A+	8.0	128	134	41	54	A+++	A+	8.0	179	134	41	54
	ERST17D-***D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	183	134	41	54
	EHST20D-***D	A++	A+	8.0	128	134	41	54	A+++	A+	8.0	179	134	41	54
	ERST20D-***D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	183	134	41	54
	EHST30D-***D	A++	A+	8.0	128	133	41	54	A+++	A+	8.0	179	133	41	54
	ERST30D-***D	A++	A+	8.0	130	133	41	54	A+++	A+	8.0	183	133	41	54
	EHSD-***D	A++	_	8.0	128	-	41	54	A+++	_	8.0	179	-	41	54
	ERSD-***D	A++	_	8.0	130	_	41	54	A+++	_	8.0	183	_	41	54
PUZ-SWM100VAA	EHST20D-***D	A++	A+	10.0	132	134	41	58	A+++	A+	10.0	178	134	41	58
	ERST20D-****D	A++	A+	10.0	134	134	41	58	A+++	A+	10.0	180	134	41	58
	EHST30D-****D	A++	A+	10.0	132	133	41	58	A+++	A+	10.0	178	133	41	58
	ERST30D-****D	A++	A+	10.0	134	133	41	58	A+++	A+	10.0	180	133	41	58
	EHSD-***D	A++	_	10.0	132	-	41	58	A+++	_	10.0	178	-	41	58
	ERSD-***D	A++	_	10.0	134		41	58	A+++	_	10.0	180	_	41	58
PUZ-SWM100YAA	EHST20D-****D	A++	A+	10.0	132	134	41	58	A+++	A+	10.0	177	134	41	58
1 02-3WW1001AA	ERST20D-****D	A++	A+	10.0	133	134	41	58	A+++	A+	10.0	180	134	41	58
	EHST30D-****D	A++	A+	10.0	132	133	41	58	A+++	A+	10.0	177	133	41	58
	ERST30D-****D	A++	A+						A+++	A+					-
	EHSD-***D	A++	A ·	10.0	133	133	41	58 58	A+++		10.0	180 177	133	41	58 58
	ERSD-***D	A++	_	10.0	133	_	41	58	A+++		10.0	177	_	41	58
PUZ-SWM120VAA	EHST20D-***D	A++	A+	12.0	131	134	41	58	A+++	_ A+	12.0	177	134	41	58
1 02-3WW120VAA	ERST20D-****D	A++	A+	12.0	132	134	41	58	A+++	A+	12.0	177	134	41	58
	EHST30D-****D	A++	A+	12.0	131		41	58	A+++	A+	12.0	177	133	41	58
	ERST30D-***D	A++	A+		132	133			A+++	A+					-
				12.0		133	41	58			12.0	178	133	41	58
	EHSD-***D	A++	-	12.0	131	-	41	58	A+++ A+++	-	12.0	177	-	41	58
DUZ CWM120VAA	ERSD-***D	A++	-	12.0	132	-	41	58		-	12.0	178	-	41	58
PUZ-SWM120YAA	EHST20D-****D	A++	A+	12.0	131	134	41	58	A+++	A+	12.0	176	134	41	58
	ERST20D-****D	A++	A+	12.0	132	134	41	58	A+++	A+	12.0	178	134	41	58
	EHST30D-****D	A++	A+	12.0	131	133	41	58	A+++	A+	12.0	176	133	41	58
	ERST30D-****D	A++	A+	12.0	132	133	41	58	A+++	A+	12.0	178	133	41	58
	EHSD-***D	A++	-	12.0	131	-	41	58	A+++	-	12.0	176	-	41	58
DL17 C\\\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ERSD-***D	A++	-	12.0	132	-	41	58	A+++	-	12.0	178	-	41	58
PUZ-SWM140VAA	EHST20D-****D	A++	A+	14.0	134	123	41	58	A+++	A+	14.0	175	123	41	58
	ERST20D-****D	A++	A+	14.0	135	123	41	58	A+++	A+	14.0	177	123	41	58
	EHST30D-****D	A++	A	14.0	134	114	41	58	A+++	A	14.0	175	114	41	58
	ERST30D-****D	A++	A	14.0	135	114	41	58	A+++	A	14.0	177	114	41	58
	EHSD-***D	A++	-	14.0	134	-	41	58	A+++	-	14.0	175	-	41	58
DLIZ CM/M44 403/4 4	ERSD-***D	A++	-	14.0	135	-	41	58	A+++	-	14.0	177	-	41	58
PUZ-SWM140YAA	EHST20D-****D	A++	A+	14.0	134	123	41	58	A+++	A+	14.0	175	123	41	58
	ERST20D-****D	A++	A+	14.0	135	123	41	58	A+++	A+	14.0	177	123	41	58
	EHST30D-****D	A++	A	14.0	134	114	41	58	A+++	A	14.0	175	114	41	58
	ERST30D-****D	A++	A	14.0	135	114	41	58	A+++	A	14.0	177	114	41	58
	EHSD-***D	A++	-	14.0	134	-	41	58	A+++	-	14.0	175	-	41	58
	ERSD-***D	A++	-	14.0	135	-	41	58	A+++	-	14.0	177	-	41	58

Outdoor unit				2	S										
	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
PUZ-SHWM80VAA	EHST17D-***D	A++	A+	8.0	132	134	41	54	A+++	A+	8.0	184	134	41	54
	ERST17D-****D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST20D-***D	A++	A+	8.0	132	134	41	54	A+++	A+	8.0	184	134	41	54
	ERST20D-****D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST30D-***D	A++	A+	8.0	132	133	41	54	A+++	A+	8.0	184	133	41	54
	ERST30D-****D	A++	A+	8.0	133	133	41	54	A+++	A+	8.0	187	133	41	54
	EHSD-***D	A++	_	8.0	132	_	41	54	A+++	_	8.0	184	-	41	54
	ERSD-***D	A++	_	8.0	133	_	41	54	A+++	_	8.0	187	_	41	54
PUZ-SHWM80YAA	EHST17D-***D	A++	A+	8.0	131	134	41	54	A+++	A+	8.0	182	134	41	54
	ERST17D-***D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST20D-***D	A++	A+	8.0	131	134	41	54	A+++	A+	8.0	182	134	41	54
	ERST20D-***D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST30D-***D	A++	A+	8.0	131	133	41	54	A+++	A+	8.0	182	133	41	54
	ERST30D-***D	A++	A+	8.0	133	133	41	54	A+++	A+	8.0	187	133	41	54
	EHSD-***D	A++	_	8.0	131	_	41	54	A+++	_	8.0	182	_	41	54
	ERSD-***D	A++	_	8.0	133	_	41	54	A+++	_	8.0	187	_	41	54
PUZ-SHWM100VAA	EHST20D-***D	A++	Α+	10.0	136	134	41	58	A+++	A+	10.0	183	134	41	58
	ERST20D-***D	A++	A+	10.0	138	134	41	58	A+++	A+	10.0	185	134	41	58
	EHST30D-***D	A++	A+	10.0	136	133	41	58	A+++	A+	10.0	183	133	41	58
	ERST30D-***D	A++	A+	10.0	138	133	41	58	A+++	A+	10.0	185	133	41	58
	EHSD-***D	A++	_	10.0	136	_	41	58	A+++	_	10.0	183	-	41	58
	ERSD-***D	A++	_	10.0	138	_	41	58	A+++	_	10.0	185	-	41	58
PUZ-SHWM100YAA	EHST20D-***D	A++	A+	10.0	135	134	41	58	A+++	A+	10.0	181	134	41	58
	ERST20D-***D	A++	A+	10.0	137	134	41	58	A+++	A+	10.0	185	134	41	58
	EHST30D-***D	A++	A+	10.0	135	133	41	58	A+++	A+	10.0	181	133	41	58
	ERST30D-***D	A++	A+	10.0	137	133	41	58	A+++	A+	10.0	185	133	41	58
	EHSD-***D	A++	-	10.0	135	-	41	58	A+++	-	10.0	181	-	41	58
	ERSD-***D	A++	-	10.0	137	-	41	58	A+++	-	10.0	185	-	41	58
PUZ-SHWM120VAA	EHST20D-***D	A++	A+	12.0	136	134	41	58	A+++	A+	12.0	179	134	41	58
	ERST20D-***D	A++	A+	12.0	138	134	41	58	A+++	A+	12.0	181	134	41	58
	EHST30D-***D	A++	A+	12.0	136	133	41	58	A+++	A+	12.0	179	133	41	58
	ERST30D-***D	A++	A+	12.0	138	133	41	58	A+++	A+	12.0	181	133	41	58
	EHSD-***D	A++	-	12.0	136	-	41	58	A+++	-	12.0	179	-	41	58
	ERSD-***D	A++	-	12.0	138	-	41	58	A+++	-	12.0	181	-	41	58
PUZ-SHWM120YAA	EHST20D-***D	A++	A+	12.0	136	134	41	58	A+++	A+	12.0	178	134	41	58
	ERST20D-***D	A++	A+	12.0	137	134	41	58	A+++	A+	12.0	181	134	41	58
	EHST30D-***D	A++	A+	12.0	136	133	41	58	A+++	A+	12.0	178	133	41	58
	ERST30D-***D	A++	A+	12.0	137	133	41	58	A+++	A+	12.0	181	133	41	58
	EHSD-***D	A++	-	12.0	136	-	41	58	A+++	-	12.0	178	-	41	58
	ERSD-***D	A++	_	12.0	137	_	41	58	A+++	_	12.0	181	-	41	58

			For m	edium-t	emperatu	ıre applio	ation			For	low-ten	perature	applicat	ion	
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
PUZ-SHWM140VAA	EHST20D-***D	A++	A+	14.0	141	123	41	58	A+++	A+	14.0	183	123	41	58
	ERST20D-***D	A++	A+	14.0	142	123	41	58	A+++	A+	14.0	184	123	41	58
	EHST30D-***D	A++	Α	14.0	141	114	41	58	A+++	Α	14.0	183	114	41	58
	ERST30D-***D	A++	Α	14.0	142	114	41	58	A+++	Α	14.0	184	114	41	58
	EHSD-***D	A++	-	14.0	141	-	41	58	A+++	-	14.0	183	-	41	58
	ERSD-***D	A++	-	14.0	142	-	41	58	A+++	-	14.0	184	-	41	58
PUZ-SHWM140YAA	EHST20D-***D	A++	A+	14.0	141	123	41	58	A+++	A+	14.0	182	123	41	58
	ERST20D-***D	A++	A+	14.0	142	123	41	58	A+++	A+	14.0	184	123	41	58
	EHST30D-***D	A++	Α	14.0	141	114	41	58	A+++	А	14.0	182	114	41	58
	ERST30D-***D	A++	Α	14.0	142	114	41	58	A+++	Α	14.0	184	114	41	58
	EHSD-***D	A++	-	14.0	141	-	41	58	A+++	-	14.0	182	-	41	58
	ERSD-***D	A++	-	14.0	142	-	41	58	A+++	-	14.0	184	-	41	58
PUD-SWM80V/YAA(-BS)	E*ST17D-***D	A++	A+	8.0	131/130	136	41	56	A+++	A+	8.0	178/176	136	41	56
	E*ST20D-***D	A++	A+	8.0	131/130	148	41	56	A+++	A+	8.0	178/176	148	41	56
	E*ST30D-***D	A++	Α	8.0	131/130	121	41	56	A+++	Α	8.0	178/176	121	41	56
	E*SD-***D	A++	-	8.0	131/130	-	41	56	A+++	-	8.0	178/176	-	41	56
PUD-SWM100V/YAA(-BS)	E*ST20D-***D	A++	A+	10.0	131/130	148	41	59	A+++	A+	10.0	178/177	148	41	59
	E*ST30D-***D	A++	Α	10.0	131/130	121	41	59	A+++	Α	10.0	178/177	121	41	59
	E*SD-***D	A++	-	10.0	131/130	-	41	59	A+++	-	10.0	178/177	-	41	59
PUD-SWM120V/YAA(-BS)	E*ST20D-***D	A++	A+	12.0	129/128	148	41	60	A+++	A+	12.0	177/176	148	41	60
	E*ST30D-***D	A++	Α	12.0	129/128	121	41	60	A+++	Α	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-SHWM80V/YAA(-BS)	E*ST17D-***D	A++	A+	8.0	135/134	136	41	56	A+++	A+	8.0	181/179	136	41	56
	E*ST20D-***D	A++	A+	8.0	135/134	148	41	56	A+++	A+	8.0	181/179	148	41	56
	E*ST30D-***D	A++	Α	8.0	135/134	121	41	56	A+++	Α	8.0	181/179	121	41	56
	E*SD-***D	A++	-	8.0	135/134	-	41	56	A+++	-	8.0	181/179	-	41	56
PUD-SHWM100V/YAA(-BS)	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++	Α	10.0	136/135	121	41	59	A+++	Α	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(-BS)	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++	Α	12.0	135/134	121	41	60	A+++	Α	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(-BS)	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++	Α	14.0	134/134	121	41	62	A+++	Α	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(-BS)	EHST17D-***D	A++	A+	7.1	129/128	136	41	58	A++	A+	7.2	162/160	136	41	58
	ERST17D-***D	A++	A+	7.1	132/132	136	41	58	A++	A+	7.2	166/165	136	41	58
	EHST20D-***D	A++	A+	7.1	129/128	145	41	58	A++	A+	7.2	162/160	145	41	58
	ERST20D-***D	A++	A+	7.1	132/132	145	41	58	A++	A+	7.2	166/165	145	41	58
	EHST30D-***D	A++	Α	7.1	129/128	120	41	58	A++	Α	7.2	162/160	120	41	58
	ERST30D-***D	A++	Α	7.1	132/132	120	41	58	A++	A	7.2	166/165	120	41	58
	EHSD-***D	A++	_	7.1	129/128	_	41	58	A++	_	7.2	162/160	_	41	58
	ERSD-***D	A++	_	7.1	132/132	_	41	58	A++	_	7.2	166/165	_	41	58

			For m	edium-t	emperatu	ıre applio	ation			For	low-tem	perature	applicat	ion	
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 Lwaindoor	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 Lwaindoor	Sound power level Lwa outdoor
				kW	%	%	dB	dB			kW	%	%	dB	dB
PUHZ-SW100V/YAA(-BS)	EHST20C-***D	A++	A+	10.0	130/129	145	40	60	A++	A+	10.6	167/165	145	40	60
	ERST20C-***D	A++	A+	10.0	132/132	145	40	60	A++	A+	10.6	170/169	145	40	60
	EHST30C-***D	A++	Α	10.0	130/129	120	40	60	A++	Α	10.6	167/165	120	40	60
	ERST30C-***D	A++	Α	10.0	132/132	120	40	60	A++	Α	10.6	170/169	120	40	60
	EHSC-***D	A++	-	10.0	130/129	-	40	60	A++	-	10.6	167/165	-	40	60
	ERSC-***D	A++	-	10.0	132/132	-	40	60	A++	-	10.6	170/169	-	40	60
PUHZ-SW120V/YHA(-BS)	EHST20C-***D	A++	A+	12.1	125/125	138	40	72	A++	A+	12.9	162/162	138	40	72
	ERST20C-***D	A++	A+	12.1	127/127	138	40	72	A++	A+	12.9	164/164	138	40	72
	EHST30C-***D	A++	A	12.1	125/125	118	40	72	A++	Α .	12.9	162/162	118	40	72
	ERST30C-***D	A++	A	12.1	127/127	118	40	72	A++	A	12.9	164/164	118	40	72
	EHSC-***D	A++	-	12.1	125/125	-	40	72	A++	-	12.9	162/162	-	40	72
DULLIZ CIAMACONIKA / DO	ERSC-***D	A++	-	12.1	127/127	-	40	72	A++	-	12.9	164/164	-	40	72
PUHZ-SW160YKA(-BS)	EHSE-***D	A++	-	13.5	125	-	45	78	A++	-	15.3	151	-	45	78
DILLIZ CIMODOVICA / DC)	ERSE-***D	A++ A++	-	13.5	126	-	45	78	A++ A++	-	15.3	152	-	45	78
PUHZ-SW200YKA(-BS)	EHSE-***D ERSE-***D	A++	-	15.5	127 129	_	45	78 78	A++	-	17.3	147	-	45	78 78
PUHZ-SHW80V/YAA(-BS)	EHST20C-***D	A++	- A+	15.5 9.0	133/132	145	45 40	59	A++	- A+	17.3 9.6	148 169/167	- 145	45 40	59
FUNZ-SHWOUV/ fAA(-BS)	ERST20C-***D	A++	A+	9.0	135/134	145	40	59	A++	A+	9.6	172/172	145	40	59
	EHST30C-***D	A++	A	9.0	133/132	120	40	59	A++	A	9.6	169/167	120	40	59
	ERST30C-***D	A++	A	9.0	135/134	120	40	59	A++	A	9.6	172/172	120	40	59
	EHSC-***D	A++	_	9.0	133/132	-	40	59	A++	_	9.6	169/167	-	40	59
	ERSC-***D	A++	_	9.0	135/134	_	40	59	A++	_	9.6	172/172	_	40	59
PUHZ-SHW112V/YAA(-BS)	EHST20C-***D	A++	A+	12.7	135/135	145	40	60	A++	A+	13.9	171/169	145	40	60
	ERST20C-***D	A++	A+	12.7	137/137	145	40	60	A++	A+	13.9	173/173	145	40	60
	EHST30C-***D	A++	A	12.7	135/135	120	40	60	A++	A	13.9	171/169	120	40	60
	ERST30C-***D	A++	A	12.7	137/137	120	40	60	A++	A	13.9	173/173	120	40	60
	EHSC-***D	A++	_	12.7	135/135	_	40	60	A++	_	13.9	171/169	_	40	60
	ERSC-***D	A++	_	12.7	137/137	_	40	60	A++	_	13.9	173/173	_	40	60
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++	А	15.8	127	118	40	70	A++	А	17.0	163	118	40	70
	ERST30C-***D	A++	А	15.8	128	118	40	70	A++	А	17.0	165	118	40	70
	EHSC-***D	A++	-	15.8	127	-	40	70	A++	_	17.0	163	-	40	70
	ERSC-***D	A++	-	15.8	128	-	40	70	A++	-	17.0	165	-	40	70
PUHZ-SHW230YKA2	EHSE-***D	A++	-	23.0	127	-	45	75	A++	-	25.0	164	-	45	75
	ERSE-***D	A++	-	23.0	128	-	45	75	A++	-	25.0	165	-	45	75
PUZ-WM50VHA(-BS)	EHPT17X-***D(W)	A++	A+	5.0	129	120	40	61	A+++	A+	5.0	183	120	40	61
	ERPT17X-***D(W)	A++	A+	5.0	133	120	40	61	A+++	A+	5.0	190	120	40	61
	EHPT20X-***D(W)	A++	A+	5.0	129	135	40	61	A+++	A+	5.0	183	135	40	61
	ERPT20X-***D(W)	A++	A+	5.0	133	135	40	61	A+++	A+	5.0	190	135	40	61
	EHPX-***D	A++	-	5.0	129	-	40	61	A+++	-	5.0	183	-	40	61
	ERPX-***D	A++	-	5.0	133	-	40	61	A+++	-	5.0	190	-	40	61
PUZ-WM60VAA(-BS)	EHPT17X-***D(W)	A++	A+	6.0	142	120	40	58	A+++	A+	6.0	190	120	40	58
	ERPT17X-***D(W)	A++	A+	6.0	145	120	40	58	A+++	A+	6.0	197	120	40	58
	EHPT20X-***D(W)	A++	A+	6.0	142	145	40	58	A+++	A+	6.0	190	145	40	58
	ERPT20X-***D(W)	A++	A+	6.0	145	145	40	58	A+++	A+	6.0	197	145	40	58
	EHPX-***D	A++	-	6.0	142	-	40	58	A+++	-	6.0	190	-	40	58
	ERPX-***D	A++	-	6.0	145	-	40	58	A+++	-	6.0	197	-	40	58

			For m	edium-t	emperatu	ıre applio	ation			For	low-ten	perature	applicat	ion	
				ø	S						S	s			
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
PUZ-WM85V/YAA(-BS)	EHPT17X-***D(W)	A++	A+	8.5	139/138	120	40	58	A+++	A+	8.5	193/190	120	40	58
	ERPT17X-***D(W)	A++	A+	8.5	141/141	120	40	58	A+++	A+	8.5	197/197	120	40	58
	EHPT20X-***D(W)	A++	A+	8.5	139/138	145	40	58	A+++	A+	8.5	193/190	145	40	58
	ERPT20X-***D(W)	A++	A+	8.5	141/141	145	40	58	A+++	A+	8.5	197/197	145	40	58
	EHPT30X-***D(W)	A++	Α	8.5	139/138	120	40	58	A+++	Α	8.5	193/190	120	40	58
	ERPT30X-***D(W)	A++	Α	8.5	141/141	120	40	58	A+++	Α	8.5	197/197	120	40	58
	EHPX-***D	A++	-	8.5	139/138	-	40	58	A+++	-	8.5	193/190	-	40	58
	ERPX-***D	A++	-	8.5	141/141	-	40	58	A+++	-	8.5	197/197	-	40	58
PUZ-WM112V/YAA(-BS)	EHPT20X-***D(W)	A++	A+	10.0	134/133	148	40	60	A+++	A+	10.0	191/189	148	40	60
	ERPT20X-***D(W)	A++	A+	10.0	136/136	148	40	60	A+++	A+	10.0	195/195	148	40	60
	EHPT30X-***D(W)	A++	Α	10.0	134/133	120	40	60	A+++	Α	10.0	191/189	120	40	60
	ERPT30X-***D(W)	A++	Α	10.0	136/136	120	40	60	A+++	Α	10.0	195/195	120	40	60
	EHPX-***D	A++	-	10.0	134/133	-	40	60	A+++	-	10.0	191/189	-	40	60
	ERPX-***D	A++	-	10.0	136/136	-	40	60	A+++	-	10.0	195/195	-	40	60
PUZ-HWM140V/YHA(-BS)	EHPT20X-***D(W)	A++	A+	14.0	132/131	130	40	67	A+++	A+	14.0	176/175	130	40	67
	ERPT20X-***D(W)	A++	A+	14.0	133/133	130	40	67	A+++	A+	14.0	178/177	130	40	67
	EHPT30X-***D(W)	A++	Α	14.0	132/131	118	40	67	A+++	Α	14.0	176/175	118	40	67
	ERPT30X-***D(W)	A++	Α	14.0	133/133	118	40	67	A+++	Α	14.0	178/177	118	40	67
	EHPX-***D	A++	-	14.0	132/131	-	40	67	A+++	-	14.0	176/175	-	40	67
	ERPX-***D	A++	-	14.0	133/133	-	40	67	A+++	-	14.0	178/177	-	40	67
PUHZ-FRP71VHA2	EHST20C-***D	A+	A+	7.5	121	138	40	68	A++	A+	7.5	163	138	40	68
	EHSC-***D	A+	-	7.5	121	-	40	68	A++	-	7.5	163	-	40	68
PUMY-P112VKM5/YKM(E)4(-BS)	EHST20C-***D	A+	А	11.2	121/121	106	40	69	A++	А	11.2	168/168	106	40	69
	EHSC-***D	A+	-	11.2	121/121	-	40	69	A++	-	11.2	168/168	-	40	69
PUMY-P125VKM5/YKM(E)4(-BS)	EHST20C-***D	A+	Α	11.2	121/121	106	40	69	A++	Α	11.2	168/168	106	40	69
	EHSC-***D	A+	_	11.2	121/121	_	40	69	A++	_	11.2	168/168	_	40	69
PUMY-P140VKM5/YKM(E)4(-BS)	EHST20C-***D	A+	Α	11.2	121/121	106	40	69	A++	Α	11.2	168/168	106	40	69
	EHSC-***D	A+	_	11.2	121/121	_	40	69	A++	_	11.2	168/168	_	40	69
PXZ-4F75VG	EHST17D-***D	A+	A+	6.0	113	117	41	67	A++	A+	6.0	154	117	41	67
	ERST17D-***D	A+	A+	6.0	113	117	41	67	A++	A+	6.0	154	117	41	67
	EHST20D-***D	A+	A+	6.0	113	124	41	67	A++	A+	6.0	154	124	41	67
	ERST20D-***D	A+	A+	6.0	113	124	41	67	A++	A+	6.0	154	124	41	67
	EHST30D-***D	A+	Α	6.0	113	118	41	67	A++	Α	6.0	154	118	41	67
	ERST30D-***D	A+	A	6.0	113	118	41	67	A++	A	6.0	154	118	41	67
	EHSD-***D	A+	-	6.0	113	-	41	67	A++	_	6.0	154	_	41	67
	ERSD-***D	A+	_	6.0	113	_	41	67	A++	_	6.0	154	_	41	67
PXZ-5F85VG	EHST17D-***D	A+	A+	7.0	111	121	41	64	A++	A+	7.0	157	121	41	64
	ERST17D-****D	A+	A+	7.0	111	121	41	64	A++	A+	7.0	157	121	41	64
	EHST20D-***D	A+	A+	7.0	111	123	41	64	A++	A+	7.0	157	123	41	64
	ERST20D-****D	A+	A+	7.0	111	123	41	64	A++	A+	7.0	157	123	41	64
	EHST30D-****D	A+	A	7.0	111	110	41	64	A++	A	7.0	157	110	41	64
	ERST30D-****D	A+	A	7.0	111	110	41	64	A++	A	7.0	157	110	41	64
	EHSD-***D	A+	_	7.0	111	-	41	64	A++	_	7.0	157	-	41	64
	ERSD-***D	A+	_	7.0	111	_	41	64	A++		7.0	157		41	64
Note: E**T17/20*-***D use "Load				7.0	111		71	0+	<u> </u>		/.0	157			



Refrigerant Amount

M/S/P/Multi/Zubadan/ATW

		Refrige	erant		charged antity		added antity
	Model Name		GWP	Weight [kg]	CO ₂ equivalent [t]	Weight [kg]	CO ₂ equivalent [t]
	PUMY-SP112VKM(-BS)	R40A	2088	3.5	7.31	9.0	18.79
	PUMY-SP112YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP125VKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP125YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP140VKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
PUMY	PUMY-P112VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P125VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P140VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P112YKM(E)4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P125YKM(E)4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P140YKM(E)4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUZ-WM50VHA	R32	675	2.0	1.35	-	_
ATW	PUZ-WM85V/YAA	R32	675	2.2	1.49	-	-
Packaged	PUZ-WM112V/YAA	R32	675	3.0	2.03	-	-
	PUZ-HWM140V/YHA	R32	675	3.3	2.2275	-	-
	SUZ-SWM40VA	R32	675	1.2	0.81	0.4	0.27
	SUZ-SWM60VA	R32	675	1.2	0.81	0.4	0.27
	SUZ-SWM80VA	R32	675	1.2	0.81	0.4	0.27
	PUD-SWM80V/YAA	R32	675	1.3	0.8775	0.3	0.20
	PUD-SWM100V/YAA	R32	675	1.6	1.08	0.23	0.16
	PUD-SWM120V/YAA	R32	675	1.6	1.08	0.23	0.16
	PUD-SHWM80V/YAA	R32	675	1.4	0.945	0.3	0.20
	PUD-SHWM100V/YAA	R32	675	1.7	1.1475	0.13	0.09
ATW	PUD-SHWM120V/YAA	R32	675	1.7	1.1475	0.13	0.09
Split	PUD-SHWM140V/YAA	R32	675	1.7	1.1475	0.13	0.09
	PUHZ-SW75V/YAA	R410A	2088	3.0	6.27	1.8	3.76
	PUHZ-SW100V/YAA	R410A	2088	4.2	8.77	1.6	3.76
	PUHZ-SW120V/YHA	R410A	2088	4.6	9.61	2.9	6.06
	PUHZ-SW160YKA	R410A	2088	7.1	14.83	4.0	8.36
	PUHZ-SW200YKA	R410A	2088	7.7	16.08	5.2	8.36
	PUHZ-SHW80V/YAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW112V/YAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW140YHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW230YKA2	R410A	2088	7.1	14.83	8.4	17.54
Mr. Slim+	PUHZ-FRP71VHA2	R410A	2088	3.8	7.94	1.8	3.76





NOTICE

Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A (GWP: 2088) or R32 (GWP: 675). *These GWP values are based on Regulation (EU) No.517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP: 1975), R32 (GWP: 550)



CAUTION

Do not install indoor units in areas (e.g. mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.



MARNING

When installing or relocating or servicing our air-conditioning equipment, use only the specified refrigerant (R410A or R32) to charge the refrigerant lines.

Do not mix it with any other refrigerant and do not allow air to remain in the lines.

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

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

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN https://www.mitsubishielectric.com/

> Full Product Catalogue - Heating 2023 (Air to Water) E-2306260 (18072)



