







ECODAN

"ECODAN" can heat rooms and supply domestic hot water, realising greater comfort and energy saving.

"ECODAN" - Economic, eco conscious next generation heating system

Both energy-saving and safe for the environment, the Mitsubishi Electric ECODAN incorporates a highly efficient heat pump system that captures "the heat in the air", a renewable energy resource. Equipped with advanced inverter control, meticulous temperature control assures comfortable heating, and its space-saving "All-in-one" indoor unit is easy to install. These energysaving, high comfort and simple installation characteristics have drawn the ECODAN heating system into the spotlight centre stage.

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

OUTDOOR UNIT INDOOR UNIT Hydro box, cylinder unit Packaged type | Small capacity (Under 5kW)* Medium capacity (7.5kW-14kW)* Large capacity (≥16kW)* ZUBADAN PUHZ-HW112/140 PUHZ-W85 PUHZ-W112 Split type Small capacity (Under 5kW)* Medium capacity (7.5kW-14kW)* Large capacity* Reversible hydro box, ZUBADAN Reversible cylinder unit PUHZ-SHW80/112/140 PUHZ-SHW230 ecodon **Eco** Inverter SUHZ-SW45 Mr.SLIM+

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

New eco-design directive

What is the ErP Directive?

The Ecodesign 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 come into effect as of September 26, 2015.

New energy label and measurements

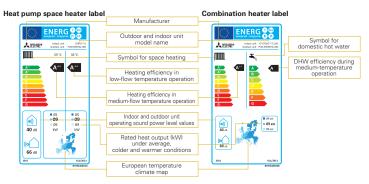
Under directive 2009/125/EC, ATW heat pumps of up to 70kW are required to show their heating efficiency on the energy label. The purpose of the energy label is to inform customers about the energy efficiency of a heating unit. The efficiency for space heating is ranked from A++ to G. In the case of domestic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

A package label is also required if the ECODAN heat pump is installed with a controller and/or a solar system or additional heater. All ECODAN units* are already rated as A⁺⁺ for heating at both 55°C and 35°C and A for domestic hot water, which are the highest efficiency ranks.

*Except for our ATA/ATW hybrid system Mr. SLIM+

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?

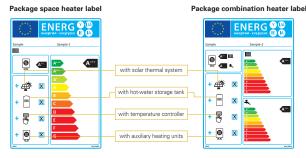
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from Δ^{+++} to G

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.

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.



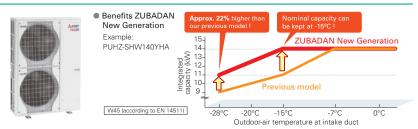
Customised package labels including ECODAN heat pumps and FTC5 controller can be created on the Mitsubishi Electric website.

Designed for Optimal Heating

ZUBADAN New Generation (Split type)

Reliable performance in low-temperature outdoor air

ZUBADAN New Generation provides powerful heating in cold regions where most heat pumps cannot perform very well. Its rated heating capacity is maintained even in outdoor temperatures as low as –15°C, even when flow temperature needs to be higher. That means it can be trusted to provide comfortable heating during severe winter months.





The Flash Injection Circuit is an original technology. A heat exchange process at point A (heat interchanger) transforms liquid refrigerant into a two-phase, gas-liquid state and then compresses the gas-liquid refrigerant at point B (injection compressor). This circuit secures a sufficient flow rate of refrigerant for heating when outdoor temperatures are very low. Thanks to improving the heat interchanger and introducing a new injection compressor, the Flash Injection Circuit is now more powerful.

Indoor units

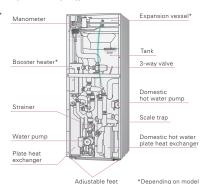
New all-in-one compact indoor unit

Easy to install and low maintenance

- All-in-one: Key functional components are incorporated
- Compact cylinder unit: Just 1600mm in height
- Compact hydro box: Only 600×600mm 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)

Water pump Plate heat exchanger Manometer

Hydro box (Split type)



Larger capacity system





Outdoor units

PUHZ-SW160/200YKA SHW230YKA2

Indoor units

EHSE-YM9EC, EHSE-MEC, ERSE-YM9EC, ERSE-MEC

Our 8–10HP ECODAN heat pumps, only available with a hydro box connection, are suitable for large houses and small businesses where a high heating load is necessary. Our latest generation of 8–10HP Power Inverter outdoor units can now reach 60°C maximum flow temperature instead of 53°C previously. The new 8–10HP hydro box is available in both heating only and reversible and can be connected to a customised capacity domestic hot water tank.

High-performance for domestic hot water re-charge



External plate heat exchanger – more energy savings using ECODAN's unique and innovative technologies

Save energy in domestic hot water operations

Thanks to an external plate heat exchanger, ECODAN offers much higher domestic hot water efficiency. Compared to our previous model, domestic hot water recharge efficiency is improved by approximately 17%*1, thereby reducing operating costs.

Avoid performance loss due to scale

A scale trap is incorporated after the plate heat exchanger to capture calcium scale particles, thus maintaining the high performance of the external plate heat exchanger. (Just a 3% reduction during 15 years*2).

Lighter weight

Compared to our previous model, the cylinder unit is up to 15kg lighter*.

This is thanks to the coil incorporated in the tank which has been removed and replaced by a much lighter plate heat exchanger.

*Comparison between EHST20C-VM2C and EHST20C-VM2B.

COP (recharging) 140% Our new model (External heat exchanger with scale trap) 120% Initial performance level of previous model (Coil in tank) 80% 60% 40% 0 2 4 6 8 10 12 14 year <*1, *2> Usage condition Tank temperature: 10 degree to 60 degree Heating up time: 1 hour per 1 day Supersaturation of CaCO3: 50

*15 years accelerated testing

Optimised stratification for better comfort

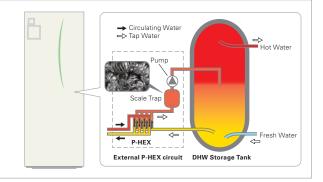
Thanks to the L-shaped inlet pipe from the plate heat exchanger, stratification is well maintained after re-charge. You do not need to worry about running out of hot water the same as with a conventional coil in tank.

Supply water temperature can be kept high until all the hot water in the tank has been used.

The secret behind our external plate heat exchanger system

Thanks to the unique plate heat exchanger and scale trap technology, a more efficient performance is achieved. In conventional systems, there is a risk of calcium scale building up on the heat-exchange plate if it is exposed to tap water directly. Therefore, it is difficult to use plate-based heat exchangers to heat tap water. To resolve this problem, ECODAN is equipped with a "scale trap" that catches homogeneous calcium nuclei in the tap water before it has a chance to grow into large scales, thereby inhibiting build-up in the external heat exchanger. ECODAN can use a plate heat exchanger to heat tap water, resulting in much higher domestic hot water performance.

Notice: In the case of the special conditions such as very hard tap water, please consult with a specialist before installation.



Unique technology of ECODAN

Auto Adaptation

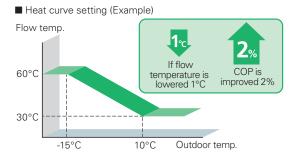
Maximize energy savings while retaining comfort at all times



*SD logo is a trademark

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.

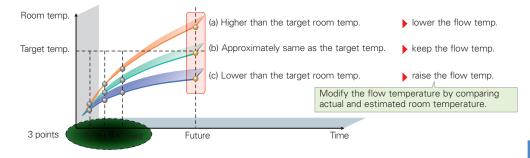
In a conventional system controller, the flow temperature is determined based on the pre-set heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



Mitsubishi Electric's Auto Adaptation function automatically tracks changes in the actual room temperature and outdoor temperature and adjusts the flow temperature accordingly.

Aiming to realise further comfort and energy savings, Mitsubishi Electric is proud to introduce a revolutionary new controller. Our advanced 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.

■ Future room temperature estimation



Two-zone control (for heating/cooling) NEW

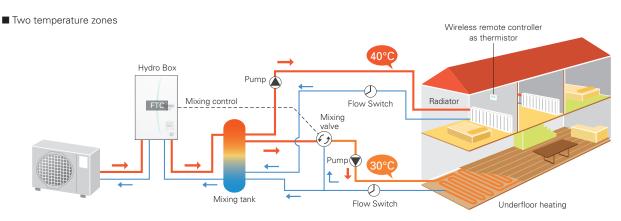
Simultaneously control two different zones

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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.

Another feature of this model is that two-zone cooling control is now possible. Using these functions it is easy to maintain the most comfortable temperature in each room and to save energy too.



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

Multiple unit control

Settings can be performed using an SD card.

Connect up to 6 units – Automatic control of multiple units for bigger capacity and better efficiency

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

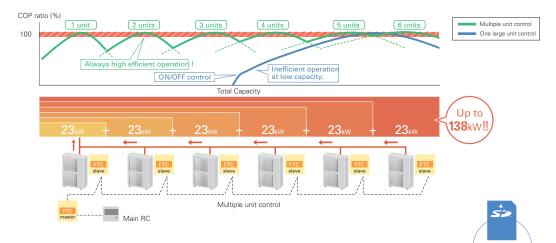
an SD ca

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



Intelligent boiler interlock

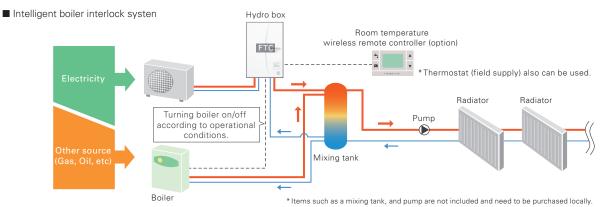
An existing boiler can be used for extra heating capacity in an efficient way *SD logo is a trademarl

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 check below "Heat source switchover".

Intelligent system combining a boiler with ECODAN



Heat source switchover - Choose appropriate system based on needs

4 types of heat source switchover logic

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

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**
 - NEW Energy monitoring
 - NEW Two-zone control (cooling and heating)
 - NEW Two separate schedules
 - NEW Summer time setting
 - Built-in room temperature sensors
 - Hybrid control (boiler interlock)
- Floor drying mode
- Weekly timer
- Holiday mode
- Legionella prevention
- Error codes





Receiver





PAR-WT50R-E (Option) Wireless remote controller

Wireless remote controller (optional)

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

Energy monitoring NEW



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 NEW







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 NEW



Pre-setting two different schedules for winter and summer seasons

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

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.

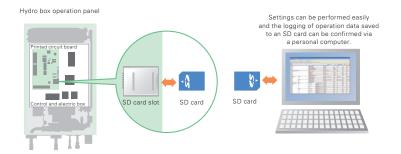
*SD logo is a trademark

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 (2GB).

- 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.

Split type specifications

Indoor unit

<Cylinder unit>



\Oyinne	aor arm																•			
Model n	ame				EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20D- VM2C	EHST20D- YM9C	EHST20D- VM2EC	EHST20D- MHC	EHST20D- MEC	EHST20C- MHCW*2	EHST20D- MHCW*2	
		Тур	е								Н	leating onl	у							
		Imn	nersion heater		-	-	-	-	-	-	-	-	-	-	-	×	-	×	×	
		Exp	ansion vessel		×	×	×	×	-	-	-	-	×	×	-	×	-	×	×	
		Boo	ster heater		×	×	×	×	×	×	×	-	×	×	×	-	-	-	-	
Dimensi	ons	H×V	V×D	mm							16	00×595×6	30							
Weight ((empty)			kg	110	111	112	112	104	105	106	103	103	105	97	103	96	110	103	
Power s	upply (V	/Phase/F	lz)				•	•	•		2:	30/Single/5	50		•					
Heater	Booster	r Pov	ver supply (V/Phase/	Hz)	230/Sir	ngle/50	400/Three/50	230/Three/50	230/Si	ngle/50	400/Three/50	-	230/Single/50	400/Three/50	230/Single/50			-		
	heater	Cap	acity	kW	2	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	2	6 (2/4/6)	9 (3/6/9)	-	2	9 (3/6/9)	2					
	Current Breaker size				9	26	13	23	9	26	13	-	9	13	9		_			
	Breaker size			А	16	32	16	32	16	32	16	-	16	16	16			-		
Immer		sion Pov	ver supply (V/Phase/	Hz)						-						230/Single/50	-	230/Si	ngle/50	
heater		Capacity		kW						-						3	-	;	3	
		Current		Α						-						13	-	1	3	
		Bre	aker size	Α						-						16	-	1	6	
Domesti hot water		Volume /	Material	L/-	200 / Stainless steel															
Guarant		Ambient		°C								0~35*1								
operatin range*1	g	Outdoor	Heating	°C							See outo	door unit s	pec table							
range .			Cooling	°C								-								
Target		Heating	Room temperature	°C								10~30								
tempera range	ture		Flow temperature	°C								25~60								
rungo		Cooling	Room temperature	°C								-								
	Flow temperature °C			°C								-								
		DHW		°C								40~60								
	Legionella prevention °C			°C	60~70															
Sound p	und pressure level (SPL) dB (28								

^{*1} The environment must be frost-free *2 UK model

<Hydro box>

Model n	ame				EHSD- MEC	EHSD- MC	EHSD- VM2C	EHSD- YM9C	EHSC- MEC	EHSC- VM2C	EHSC- VM2EC	EHSC- VM6C	EHSC- VM6EC	EHSC- YM9C	EHSC- YM9EC	EHSC- TM9C	EHSE- MEC	EHSE- YM9EC
		Тур	e								Heatin	g only						-
		Imn	nersion heater		-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Exp	ansion vessel		-	×	×	×	-	×	-	×	-	×	-	×	-	-
		Boo	ster heater		-	-	×	×	-	×	×	×	×	×	×	×	-	×
Dimensi	ons	H×V	V×D	mm						800×5	30×360						950×6	00×360
Weight (empty)			kg	38	43	44	45	42	48	43	49	44	49	44	49	60	62
Power s	Power supply (V/Phase/Hz)					230/Single/50												
Heater	In a state of		Hz)	-	-	230/Single/50	400/Three/50	-		230/Sir	ngle/50		400/Th	ree/50	230/Three/50	-	400/Three/50	
	heater	Capacity		kW	-	-	2	9 (3/6/9)	-	2	2	6 (2/4/6)	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	9 (3/6/9)	-	9 (3/6/9)
		Curi	rent	А	-	-	9	13	-	9	9	26	26	13	13	23	-	13
		Brea	aker size	Α	-	-	16	16	-	16	16	32	32	16	16	32	-	16
Guarant		nbient		°C		0~35*1												
operatin range*1	g Ou	tdoor	Heating	°C						Se	e outdoor ι	ınit spec tal	ble					
rungo			Cooling	°C							-							
Target		ating	Room temperature	°C							10-	-30						
tempera range	ture		Flow temperature	°C							25-	-60						
rungo	Co	oling	Room temperature	°C							-							
			Flow temperature	°C							-	-						
Sound p	ound pressure level (SPL) dB									2	28						:	30

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

<Reversible cylinder unit>

Model na	ame					ERST20D- VM2C	ERST20D-	ERST20C- VM2C	ERST20C-	
			Тур	P				nd cooling	IVIEC	
			<u> </u>	nersion heater		_	_	_	_	
				ansion vessel		×			_	
			⊢ ·	ansion vessei						
- ·						×		×	-	
Dimensi			H×V	V×D	mm		1600×5	1		
Weight (. ,				kg	103	96	110	103	
Power su			_				230/Sir			
Heater	Boost		_	ver supply (V/Phase/	_	230/Single/50	-	230/Single/50	-	
	neate		Cap	acity	kW	2	-	2	-	
			Cur	rent	Α	9	-	9	-	
			Bre	aker size	Α	16	-	16	-	
	Imme		Pov	ver supply (V/Phase/	Hz)	-	-	-	-	
	heate	r	Сар	acity	kW	-	-	-	-	
			Cur	rent	Α	-	-	-	-	
			Bre	aker size	А	-	-	-	-	
Domesti hot wate		Volu	me/	Material	L/-	200 / Stainless steel				
Guarante		Amb	ient		°C		0~3	15*1		
operating range*1	g	Outd	loor	Heating	°C	See	outdoor u	ınit spec ta	ble	
range .				Cooling	°C	See outdoo	r unit spec t	able (minimu	ım 10°C*2)	
Target		Heat	ing	Room temperature	°C		10~	-30		
tempera	ture			Flow temperature	°C		25~	-60		
range		Cool	ing	Room temperature	°C		-	-		
				Flow temperature	°C		5~2	25		
		DHW	/		°C		40~	-60		
Legionella preve			a prevention	°C	60~70					
Sound p	ound pressure level (SPL)					A) 28				

<Reversible hydro box>

Model name					ERSD- VM2C	ERSC- MEC	ERSC- VM2C	ERSE- MEC	ERSE- YM9EC
		Тур	e			Heati	ng and cod	oling	
		lmm	nersion heater		-	-	-	-	-
		Exp	ansion vessel		×	-	×	-	-
		Воо	ster heater		×	-	×	-	×
Dimensions		H×V	V×D	mm	8	00×530×36	60	950×60	00×360
Weight (empty)			kg	45	43	49	61	63
Power supply (Power supply (V/Phase/Hz)					2	30/Single/5	i0	
Heater Booster		Pow	er supply (V/Phase/	Hz)	230/Single/50	-	230/Single/50	-	400/Three/50
heater		Сар	acity	kW	2	-	2	-	9 (3/6/9)
		Curi	rent	Α	9	-	9	-	13
		Brea	aker size	А	16	-	16	-	16
Guaranteed	Ambie	ent		°C			0~35*1		
operating range*1	Outdo	oor	Heating	°C		See outd	loor unit sp	ec table	
range .			Cooling	°C	See ou	tdoor unit :	spec table (r	ninimum 1	10°C*2)
Target	Heatir	ng	Room temperature	°C			10~30		
temperature range			Flow temperature	°C			25~60		
	Coolir	ng	Room temperature	°C			-		
			Flow temperature	°C			5~25		
Sound pressure	ound pressure level (SPL)					A) 28 30			0

^{*1} The 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.

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

Outdoor unit

Model name	е			SUHZ- SW45VA (H)*1	PUHZ- SW50VKA (-BS)	PUHZ- SW75VHA (-BS)	PUHZ- SW100V/YHA (-BS)	PUHZ- SW120V/YHA (-BS)	PUHZ- SW160YKA (-BS)	PUHZ- SW200YKA (-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
Dimensions	H	×W×D	mm	880×840×330	630×809×300	943×950×330	1350×950×330	1350×950×330	1338×1050×330	1338×1050×330	1350×950×330	1350×950×330	1350×950×330	1338×1050×330
Product wei	ght (empt	y)	kg	54	43	75	118/130	118/130	136	136	120	120/134	134	149
Power supp	ly (V / Pha	ise / Hz)						VHA: 230/Singl	e/50 YHA, YK	A: 400/Three/50)			
Heating	Capacity	,	kW	4.50	5.50	8.00	11.20	16.00	22.00	25.00	8.00	11.20	14.00	23.00
(A7/W35)	COP			5.06	4.42	4.40	4.45	4.10	4.20	4.00	4.65	4.46	4.22	3.65
	Power in	nput	kW	0.889	1.244	1.818	2.517	3.902	5.238	6.250	1.720	2.511	3.318	6.301
Heating	Capacity	,	kW	3.50	5.00	7.50	10.00	12.00	16.00	20.00	8.00	11.20	14.00	23.00
(A2/W35)	COP			3.40/3.04	2.97	3.40	3.32	3.24	3.11	2.80	3.55	3.34	2.96	2.37
	Power in	nput	kW	1.029/1.151	1.684	2.206	3.009	3.704	5.145	7.143	2.254	3.353	4.730	9.705
Cooling	Capacity	,	kW	4.00	4.50	6.60	9.10	12.50	16.00	20.00	7.10	10.00	12.50	20.00
(A35/W7)	EER			2.73	2.76	2.82	2.75	2.32	2.76	2.25	3.31	2.83	2.17	2.22
	Power in	put	kW	1.465	1.630	2.340	3.309	5.388	5.797	8.889	2.145	3.534	5.760	9.009
Cooling	Capacity	,	kW	3.80	5.00	7.10	10.00	14.00	18.00	22.00	7.10	10.00	12.50	20.00
(A35/W18)	EER			4.28	4.60	4.43	4.35	4.08	4.56	4.10	4.52	4.74	4.26	3.55
	Power in	put	kW	0.888	1.087	1.603	2.299	3.431	3.947	5.366	1.571	2.110	2.934	5.634
Sound pressure level (SPL)	Heating		dB (A)	52	46	51	54	54	62	62	51	52	52	59
Sound power level (PWL)	Heating		dB (A)	61	63	68	70	72	78	78	69	70	70	75
Operating c	urrent (ma	ax)	Α	12.0	13.0	17.0	29.5/13.0	29.5/13.0	19.0	21.0	29.5	35.0/13.0	13.0	26.0
Breaker size			Α	20	16	25	32/16	32/16	25	32	32	40/16	16	32
Piping	Diameter	Liquid/Gas	mm	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88	9.52/25.4	12.7/25.4	9.52/15.88	9.52/15.88	9.52/15.88	12.7/25.4
	Max. length	Out-In	m	30	40	40	75	75	80	80	75	75	75	80
	Max. height	Out-In	m	30	30	30	30	30	30	30	30	30	30	30
Guaranteed	Heating		°C	-15 to +24	-15 to +21	-20 to +21	-20 to +21	-20 to +21	-20 to +21	-20 to +21	-28 to +21	-28 to +21	-28 to +21	-25 to +21
operating range	DHW		°C	-15 to +35	-15 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35	-28 to +35	-28 to +35	-28 to +35	-25 to +35
	Cooling	÷2	°C	-10 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46

Note: based on EN 14511 (Input to circulation pump is not included.) It may differ according to the system configuration. *1 SUHZ-SW45VAH incorporates base heater. *2 Optional air protection guide is required where ambient temperature is lower than -5°C.

Optional parts

Parts name	Model name	Specification								Cylind	er unit								Hydro I	box
			EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20D- VM2C	EHST20D- YM9C	EHST20D- VM2EC	EHST20D- MEC	EHST20D- MHC	EHST20C- MHCW	EHST20D- MHCW	ERST models	E#SD or E#SC models	E#SE models
Wirelss remote controller	PAR-WT50R-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Wirelss receiver	PAR-WR51R-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp. (5m)	×	×	×	×	×	-	-	-	-	-	-	-	-	-	-	-	×	×
	PAC-TH011TKL-E	For tank temp. (30m)	×	×	×	×	×	-	-	-	-	-	-	-	-	-	-	-	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Immersion heater	PAC-I03V2-E	1Ph 3kW	×	×	×	×	×	×	×	×	×	×	×	×	-	-	-	×	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	-	-	-	-	-	-	-	-	-	×	×	-	-	-
Joint pipe	PAC-SG73RJ-E	For PUHZ-SW200YKA/ SHW230YKA2 (-BS) ø9.52→ø12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	×
Wi-Fi interface	PAC-WF010-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Drain pan stand	PAC-DP01-E	D665mm H270mm W595mm N/W: 14.5kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x*1	-	-

^{*1} PAC-DP01-E is necessary when you use ERST units. If you use ERST units without this parts, drain will be flowed from the base of units, in cooling mode.

<Outdoor unit>

Parts name	Model name	Eco Inverter			Power	Inverter				ZUBA	ADAN	
		SUHZ- SW45VA (H)	PUHZ- SW50VKA (-BS)	PUHZ- SW75VHA (-BS)	PUHZ- SW100V/YHA (-BS)	PUHZ- SW120V/YHA (-BS)	PUHZ- SW160YKA (-BS)	PUHZ- SW200YKA (-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
Connector for drain hose heater	PAC-SE60RA-E	-	-	×	×	×	×	×	×	×	×	×
signal output	PAC-SE61RA-E	-	×	-	-	-	-	-	-	-	-	-
Air discharge guide	MAC-886SG-E	×	-	-	-	-	-	-	-	-	-	-
	PAC-SJ07SG-E	-	×	-	-	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	×	×	×	-	-	×	×	×	-
	PAC-SG96SG-E	-	-	-	-	-	×	×	-	-	-	×
Air protection guide	PAC-SJ06AG-E	-	×	-	-	-	-	-	-	-	-	-
	PAC-SH63AG-E	-	-	×	×	×	-	-	×	×	×	-
	PAC-SH95AG-E	-	-	-	-	-	×	×	-	-	-	×
Drain socket	PAC-SG61DS-E	-	-	×	×	×	×	×	-	-	-	-
	PAC-SJ08DS-E	-	×	-	-	-	-	-	-	-	-	-
Centralised drain pan	PAC-SG63DP-E	-	×	-	-	-	-	-	-	-	-	-
	PAC-SG64DP-E	-	-	×	×	×	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	-	-	×	×	-	-	-	-
Control/Service tool	PAC-SK52ST	-	×	×	×	×	×	×	×	×	×	×

Packaged type specifications

Indoor unit

♦WRAS <Cylinder unit> Model name EHPT20X-VM2C EHPT20X-VM6C EHPT20X-TM9C EHPT20X-MHCW*2 EHPT20X-YM9C Type Heating only Immersion heater Expansion vessel Booster heater Dimensions H×W×D mm 1600×595×680 Weight (empty) 98 99 100 100 98 kg Power supply (V/Phase/Hz) 230/Single/50 230/Three/50 Booster heater 230/Single/50 Heater Power supply (V/Phase/Hz) 400/Three/50 Capacity kW 6 (2/4/6) 9 (3/6/9) 9 (3/6/9) Current Α 26 13 23 Breaker size Α 32 16 32 16 230/Single/50 Immersion Power supply (V/Phase/Hz) Capacity kW 3 Current Α 13 Breaker size Α 16 Domestic hot water tank L/-Volume / Material 200 / Stainless steel Guaranteed 0~35*1 Ambient °C operating range*1 Outdoor °C See outdoor spec table Target temperature range Room temperature °C 10~30 °C 25~60 Flow temperature DHW °C 40~60 Legionella prevention °C 60~70

28

<Hydro box>

Sound pressure level (SPL)

Model name				EHPX-VM2C	EHPX-VM6C	EHPX-YM9C		
		Туре			Heating only			
		Immersion heater		-	-	-		
		Expansion vessel		×	×	×		
		Booster heater		×	×	×		
Dimensions		H×W×D	mm		800×530×360			
Weight (empty)			kg	37	38	38		
Power supply (\	//Phase/Hz)				230/Single/50			
Heater	Booster	Power supply (V/Pha	se/Hz)	230/Single/50	230/Single/50	400/Three/50		
	Booster heater		Capacity	kW	2	6 (2/4/6)	9 (3/6/9)	
		Current	Α	9	26	13		
		Breaker size	Α	16	32	16		
Guaranteed	Ambient		°C		0~35*1			
operating range*1	Outdoor		°C		See outdoor spec table			
Target temper- ature range	Heating	Room temperature	°C		10~30			
	- H	Flow temperature	°C		25~60			
Sound pressure	level (SPL)		dB (A)	A) 28				

dB (A)

Outdoor unit

Model name			PUHZ-W50VHA2 (-BS)	PUHZ-W85VHA2 (-BS)	PUHZ-W112VHA (-BS)	DITUT UM/112VUA2 / DC)	DI 1U7 UM/140VUA2 / DC)	PUHZ-HW140YHA2 (-BS)
					, , ,			
Dimensions	H×W×D	mm	740×950×330	943×950×330	1350×1020×330	1350×1020×330	1350×1020×330	1350×1020×330
Product weight	empty)	kg	64	79	133	148	134	148
Power supply (V	/ Phase / Hz)		230/Single/50	230/Single/50	230/Single/50	400/Three/50	230/Single/50	400/Three/50
Heating	Capacity	kW	5.00	9.00	11.20	11.20	14.00	14.00
(A7/W35)	COP		4.50	4.18	4.47	4.42	4.25	4.25
	Power input	kW	1.111	2.153	2.506	2.534	3.294	3.294
Heating	Capacity	kW	5.00	8.50	11.20	11.20	14.00	14.00
(A2/W35)	COP		3.50	3.17	3.34	3.11	3.11	3.11
	Power input kW		1.429	2.681	3.353	3.601	4.502	4.502
Sound pressure level (SPL)	Heating	dB (A)	46	48	53	53	53	53
Sound power level (PWL)	Heating	dB (A)	61	66	69	67	67	67
Operating curren	nt (max)	Α	13.0	23.0	29.5	13.0	35.0	13.0
Breaker size		Α	16	25	32	16	40	16
Guaranteed	Heating	°C	-15 to +21	-20 to +21	-20 to +21	-25 to +21	-25 to +21	-25 to +21
operating range	DHW	°C	-15 to +35	-20 to +35	-20 to +35	-25 to +35	-25 to +35	-25 to +35
	Cooling*1	°C	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46

Note: based on EN 14511 (Input to circulation pump is included.) It may differ according to the system configuration.

^{*1} The environment must be frost-free *2 UK model

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

^{*1} Optional air protection guide is required where ambient temperature is lower than –5°C.

Optional parts <Indoor unit>

Parts name	Model name	Specification			Cylinder unit				Hydro box	
			EHPT20X-VM2C	EHPT20X-VM6C	EHPT20X-YM9C	EHPT20X-TM9C	EHPT20X-MHCW	EHPX-VM2C	EHPX-VM6C	EHPX-YM9C
Wireless remote controller	PAR-WT50R-E		×	×	×	×	×	×	×	×
Wireless receiver	PAR-WR51R-E		×	×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp.	×	×	×	×	×	×	×	×
	PAC-TH011TKL-E	For tank temp. (longer)	×	×	×	×	×	×	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×
Immersion heater	PAC-I03V2-E	1Ph 3kW	×	×	×	×	-	-	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	×	-	-	-
Wi-Fi interface	PAC-WF010-E		×	×	×	×	×	×	×	×

<Outdoor unit>

Parts name	Model name		Power Inverter		ZUBADAN				
		PUHZ- W50VHA2(-BS)	PUHZ- W85VHA2(-BS)	PUHZ- W112VHA (-BS)	PUHZ- HW112YHA2(-BS)	PUHZ- HW140VHA2(-BS)	PUHZ- HW140YHA2(-BS)		
Connector for drain hose heater signal output	PAC-SE60RA-E	×	×	×	×	×	×		
Air discharge guide	PAC-SG59SG-E	×	×	×	×	×	×		
Air protection guide	PAC-SH63AG-E	×	×	×	×	×	×		
Drain socket	PAC-SG61DS-E	×	×	×	_	-	-		
Centralised drain pan	PAC-SG64DP-E	×	×	_	_	-	-		
Control/Service tool	PAC-SK52ST	-	-	-	-	-	-		

Interface/Flow temperature controller

Parts name	Model name	Description
Capacity step control interface	PAC-IF011B-E	1 PC Board w/ Case
Flow temperature controllers	PAC-IF032B-E	1 PC Board w/ Case
System controllers	PAC-IF061B-E	1 PC Board w/ Case
	PAC-IF062B-E	1 PC Board w/ Case
	PAC-SIF051B-E	1 PC Board w/ Case

Note: SUHZ CANNOT be connected to these IFs.

Combination table

Type	Model name				Split type					
		F	Power Inverte	r		ZUBADAN		Eco Inverter	Power Inverter	
		PUHZ- W50VHA2	PUHZ- W85VHA2	PUHZ- W112VHA	PUHZ- HW112YHA2	PUHZ- HW140VHA2	PUHZ- HW140YHA2	SUHZ- SW45VA(H)	PUHZ- SW50VKA	PUHZ- SW75VH
	EHST20C-VM2C									•
	EHST20C-VM6C									•
	EHST20C-YM9C									•
	EHST20C-TM9C									•
	EHST20C-VM2EC									•
	EHST20C-VM6EC									•
	EHST20C-YM9EC									•
	EHST20C-MEC									•
	EHST20C-MHCW									•
	EHST20D-VM2C							•	•	
	EHST20D-MEC							•	•	
Sylinder unit	EHST20D-MHC							•	•	
yimasi uffit	EHST20D-MHCW							•	•	
	EHST20D-VM2EC							•	•	
	EHST20D-YM9C							•	•	
	ERST20C-MEC									•
	ERST20C-VM2C									PUHZ SW75V
	ERST20D-MEC							•	•	
	ERST20D-VM2C								•	
	EHPT20X-VM2C	•	•	•	•	•	•			
	EHPT20X-VM6C	•		•		•	•			
	EHPT20X-YM9C	•	•	•	•	•	•			
	EHPT20X-TM9C	•		•		•	•			
	EHPT20X-MHCW	•	•	•	•	•	•			
	EHSC-VM2C									•
	EHSC-VM2EC									•
	EHSC-VM6C									•
	EHSC-VM6EC									•
	EHSC-YM9C									•
	EHSC-YM9EC									•
	EHSC-TM9C									•
	EHSC-MEC									Inverter PUH SW75
	EHSD-VM2C							•	•	
	EHSD-YM9C							•	•	
lydro box	EHSD-MEC							•	•	
iyaro box	EHSD-MC							•	•	
	ERSC-VM2C									•
	ERSC-MEC									•
	ERSD-VM2C							•	•	
	EHPX-VM2C	•	•	•	•	•	•			
	EHPX-VM6C	•	•	•	•	•	•			
	EHPX-YM9C	•	•	•	•	•	•			
	EHSE-YM9EC									
	EHSE-MEC									
	ERSE-YM9EC									
	ERSE-MEC									

					Split	type					
		Power I	Inverter			Mr. SLIM+					
PUHZ- SW100VHA	PUHZ- SW100YHA	PUHZ- SW120VHA	PUHZ- SW120YHA	PUHZ- SW160YKA	PUHZ- SW200YKA	PUHZ- FRP71VHA	PUHZ- SHW80VHA	PUHZ- SHW112VHA	PUHZ- SHW112YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
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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, 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

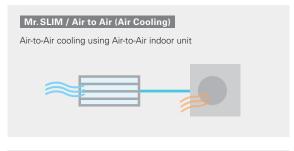
Mr. SLIM+ utilizes a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that is possible to fit various applications.

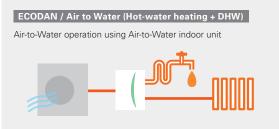
ECODAN for Air-to-Water

✓Domestic hot water supply ✓Heating for multiple rooms

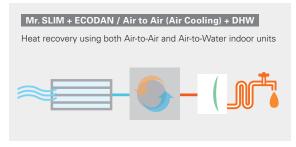


Various operations









Specifications

Indoor u	unit				DI A 7DD71DA	DVA DD71VAI	PCA-RP71KA	PCA-RP71HA	PSA-RP71KA	DEAD DD71 IAO	DEAD DD71 IA			
Outdoo					PLA-ZRP71BA PUHZ-FRP71VHA	PKA-RP71KAL PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA		PUHZ-FRP71V			
Refriger					FORZ-FRF/TVRA	FUNZ-FRF/TVHA	FORZ-FRF/TVHA	R410A	FORZ-FRF/TVHA	FORZ-FRF/TVRA	FUHZ-FRF71V			
Power s		0.44557/1/5	(hana / I In)					230 / Single / 50						
		Outdoor (V / F		kW	7.1	7.1	7.1		7.1	7.1	7.1			
Air-to-Air ATA)	Cooling	Capacity	Rated		7.1	7.1	7.1	7.1	7.1					
			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	3.84	1.88	1.90	2.26	1.97		2.08			
			EER			3.78	3.74	3.14	3.60		3.41			
		Design load	Design load kW			7.1	7.1	7.1	7.1	7.1	7.1			
		Annual electri	city consumption *1	kWh/a	382	393	387	462	408	459	441			
		SEER *3			6.5	6.3	6.4	5.4	6.1	5.4	5.6			
			Energy-efficiency class		A ⁺⁺	A++	A ⁺⁺	Α	A ⁺⁺	А	A ⁺			
	Heating	Capacity	Rated	kW	8.0	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	3.5-10.2			
		Total input	Rated	kW	2.05	2.26	2.26	2.42	2.28	2.09	2.09			
		СОР			3.90	3.54	3.54	3.14	3.33	3.83	3.83			
		Design load		kW	4.7	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)	4.7 (-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)	4.7 (-10°C)	4.9 (-10°C)	4.9 (–10°0			
			at operation limit temperature	kW	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.7 (-20°C)	3.7 (–20°0			
		Back-up hea		kW	0	0	0	0	0	0	0			
		·	ricity consumption *1	kWh/a	1,510	1,569	1,555	1,787	1,709		1,799			
ir-to-Water Nomin		SCOP *3	monty consumption	KVVII/G	4.4	4.2	4.2	3.7	3.9		3.8			
		3001			A ⁺	A+	A+	A A	A		3.6 A			
	Namina	I flammata /fam	Energy-efficiency class			A	Α		A	A	A			
r-to-water TW)		I flow rate (for		L/min										
	Heating*4	A/W35	Capacity	kW	8.00									
w H			Input	kW	1.96									
			COP 4.08											
		A2W35	Capacity	kW										
			Input	kW				2.65						
			СОР					2.83						
	Heat	W45	Capacity (ATA cooling + ATW)	kW	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0			
	recovery (ATA		Input	kW	1.90	1.93	1.95	2.31	2.02	2.15	2.13			
	cooling &		COP		7.95	7.82	7.74	6.54	7.48	7.02	7.09			
	ATW) *5	W55	Capacity (ATA cooling + ATW)	kW	7.1+9.0	7.1+9.0	7.1+9.0	6.4+9.0	7.1+9.0	7.1+9.0	7.1+9.0			
			Input	kW	2.97	3.00	3.02	3.25	3.09	3.22	3.20			
			COP		5.42	5.37	5.33	4.74	5.21	5.00	5.03			
	ATW ind	door unit			Cylinder unit or Hydro box (see previous page)									
utdoo	r unit	Dimensions	HxWxD	mm				943-950-330 (+30)	,					
		Weight		kg	73	73	73	73	73	73	73			
		Air volume	Cooling	m³/min	55	55	55	55	55	55	55			
			Heating	m³/min	55	55	55	55	55		55			
		Sound pressure	Cooling	dB(A)	47	47	47	47	47		47			
		level (SPL)			47									
		,	Heat recovery	dB(A)		47	47	47	47		47			
			ATA Heating	dB(A)	48	48	48	48	48		48			
			ATW Heating	dB(A)	48	48	48	48	48		48			
		Sound power	Cooling	dB(A)	67	67	67	67	67		67			
		level (PWL)	Heat recovery	dB(A)	67	67	67	67	67	T.1	67			
			ATA Heating	dB(A)	68	68	68	68	68	68	68			
			ATW Heating	dB(A)	68	68	68	68	68	68	68			
		Operating cur	rent (max) A		19.0	19.0	19.0	19.0	19.0	19.0	19.0			
		Breaker size		Α	25	25	25	25	25	25	25			
			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	9.52/15.8			
xt.pipi	ng	Diameter					30 (fe	or ATA) + 30 (for A	ATW)		*			
xt.pipi	ng	Diameter Max. length	Out-In	m										
xt.pipi	ng		Out-In	m m	20	20	20	20	20	20	20			
		Max. length Max. height	Out-In					20 -15~+46						
Guaran	teed oper	Max. length	Out-In Cooling *2	m °C	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46			
Ext.pipi Guarant outdoo	teed oper	Max. length Max. height	Out-In	m						-15~+46 -20~+21	20 -15~+46 -20~+21 -20~+35			

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

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

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

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

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

MELCloud (WiFi interface) for ECODAN NEW



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

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

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

Check energy usage report* *Additional measuring hardware is required.



All A⁺⁺ line-up!!

except for ATA & ATW hybrid system, M	For medium-temperature application							For low-temperature application							
Outdoor unit	Indoor unit	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level Lwa indoor	Sound power level Lwa outdoor	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level Lwa indoor	Sound power level Lwa outdoor
				kW	%	%	dB	dB			kW	%	%	dB	dB
SUHZ-SW45VA	EHST20D-***	A++	Α	4.6	126	109	40	61	A++	Α	5.0	170	109	40	61
	ERST20D-***	A++	Α	4.6	128	109	40	61	A++	Α	5.0	174	109	40	61
	EHSD-***	A++	-	4.6	126	-	40	61	A++	-	5.0	170	-	40	61
	ERSD-***	A++	-	4.6	128	-	40	61	A++	-	5.0	174	-	40	61
PUHZ-SW50VKA (-BS)	EHST20D-****	A++	Α	4.3	125	98	40	63	A++	Α	4.5	163	98	40	63
	ERST20D-***	A++	Α	4.3	128	98	40	63	A++	Α	4.5	167	98	40	63
	EHSD-***	A++	-	4.3	125	-	40	63	A++	-	4.5	163	-	40	63
	ERSD-***	A++	-	4.3	128	-	40	63	A++	-	4.5	167	-	40	63
PUHZ-SW75VHA (-BS)	EHST20C-***	A++	A	7.1	127	103	40	68	A++	A	7.2	165	103	40	68
	ERST20C-***	A++	Α	7.1	129	103	40	68	A++	Α	7.2	167	103	40	68
	EHSC-***	A++	-	7.1	127	-	40	68	A++	-	7.2	165	-	40	68
DUILT CM/100V/HA (VUA / DC)	ERSC-***	A++	-	7.1	129	102	40	68	A++	-	7.2	167	-	40	68
PUHZ-SW100VHA/YHA (-BS)	EHST20C-***	A++	A	10.0	125	103	40	70	A++	A	10.4	164	103	40	70
	ERST20C-***	A++	A _	10.0	127	103	40	70	A++	Α	10.4	166	103	40	70
	EHSC-**** ERSC-****	A++ A++	_	10.0	125	-	40	70 70	A++ A++	_	10.4	164 166	_	40	70
PUHZ-SW120VHA/YHA (-BS)	EHST20C-***	A++	Α	12.0	127	99	40	70	A++	A	12.9	162	99	40	70
FUNZ-3W 120VNA/TNA (-63)	ERST20C-****	A++	A	12.0	125 127	99	40	72	A++	A	12.9	164	99	40	72 72
	EHSC-***	A++	_	12.0	127	-	40	72	A++	_	12.9	162	-	40	72
	ERSC-***	A++	_	12.0	127	_	40	72	A++	_	12.9	164	_	40	72
PUHZ-SW160YKA (-BS)	EHSE-***	A++	_	13.5	125	_	45	78	A++	_	15.3	161	_	45	78
. 6.12 6.11 (26)	ERSE-***	A++	_	13.5	126	_	45	78	A++	_	15.3	163	_	45	78
PUHZ-SW200YKA (-BS)	EHSE-***	A++	_	15.5	128	-	45	78	A++	_	17.3	162	_	45	78
	ERSE-***	A++	_	15.5	129	-	45	78	A++	_	17.3	164	_	45	78
PUHZ-SHW80VHA (-BS)	EHST20C-***	A++	Α	9.0	131	103	40	69	A++	Α	9.6	171	103	40	69
	ERST20C-***	A++	Α	9.0	133	103	40	69	A++	Α	9.6	174	103	40	69
	EHSC-***	A++	-	9.0	131	-	40	69	A++	-	9.6	171	-	40	69
	ERSC-***	A++	-	9.0	133	-	40	69	A++	-	9.6	174	-	40	69
PUHZ-SHW112VHA/YHA (-BS)	EHST20C-***	A++	Α	12.7	128	103	40	70	A++	Α	13.9	167	103	40	70
	ERST20C-***	A++	Α	12.7	130	103	40	70	A++	Α	13.9	169	103	40	70
	EHSC-***	A++	-	12.7	128	-	40	70	A++	-	13.9	167	-	40	70
	ERSC-***	A++	-	12.7	130	-	40	70	A++	-	13.9	169	-	40	70
PUHZ-SHW140YHA (-BS)	EHST20C-***	A++	Α	15.8	127	103	40	70	A++	Α	17.0	164	103	40	70
	ERST20C-***	A++	Α	15.8	128	103	40	70	A++	Α	17.0	165	103	40	70
	EHSC-***	A++	-	15.8	127	-	40	70	A++	-	17.0	164	-	40	70
	ERSC-***	A++	-	15.8	128	-	40	70	A++	-	17.0	165	-	40	70
PUHZ-SHW230YKA2	EHSE-***	A++	-	23.0	127	-	45	75	A++	-	25.0	164	-	45	75
	ERSE-***	A++	-	23.0	128	-	45	75	A++	-	25.0	165	-	45	75
PUHZ-W50VHA2 (-BS)	EHPT20X-***	A++	Α	5.0	127	99	40	61	A++	Α	5.0	162	99	40	61
DITLET WOEVILAG / DCV	EHPX-***	A++	-	5.0	127	- 07	40	61	A++	-	5.0	162	- 07	40	61
PUHZ-W85VHA2 (-BS)	EHPT20X-***	A++ A++	A	8.5	128	97	40	66	A++ A++	Α	8.5	162	97	40	66
PLIH7_W112\/\µ\\ / PC\	EHPX-***	A++	_	8.5 10.0	128	100	40 40	66 67	A++	- А	8.5 10.0	162 164	100	40	66
PUHZ-W112VHA (-BS)	EHPT20X-****	A++	A _	10.0	125	100	40	67	A++	- A	10.0	164	100	40	67
PUHZ-HW112YHA2 (-BS)	EHPX-**** EHPT20X-****	A++	- А	10.0	125 126	100	40	67	A++	_ A	10.0	155	100	40	67
TOTAL TIVE FIZ (TIME (*DO)	EHPT20X-****	A++	- A	12.7		-	40	67	A++	- A	12.7	155	100	40	67 67
PUHZ-HW140VHA2/YHA2 (-BS)	EHPX-**** EHPT20X-****	A++	_ A	15.8	126 126	96	40	67	A++	_ A	15.8	155	96	40	67
. 3 (1171 170 VIII.A.E./ [[II.A.E. \-D0]	EHPX-***	A++	- A	15.8	126	- 90	40	67	A++	_	15.8	157	_	40	67
	LIII X-			10.0	120		+0	1 0/		_	13.0	107		+0	U/
PUHZ-FRP71VHA	EHST20C-***	A+	Α	7.5	123	98	40	68	A++	Α	7.5	163	98	40	68
ATA & ATW hybrid system, Mr. SLIM+	EHSC-***	A ⁺	-	7.5	123	-	40	68	A++	-	7.5	163	-	40	68

^{*} Based on COMMISSION DELEGATED REGULATION (EU) No 811/2013, average climate conditions