R32

Packaged Type Specifications

<Cylinder unit (Reversible)>

Model name				ERPT17X-VM2D	ERPT20X-VM2D	ERPT30X-VM2ED
		Type		Heating and cooling		
		Immersion heater		–	–	–
		Expansion vessel		✓	✓	–
		Booster heater		✓	✓	✓
Dimensions		H×W×D	mm	1400×595×680	1600×595×680	2050×595×680
Weight (empty)			kg	86	94	107
Control board power supply (Phase / V / Hz)				~/N, 230V, 50Hz		
Heater	Booster heater	Power supply (Phase / V / Hz)		~/N, 230V, 50Hz	~/N, 230V, 50Hz	
		Capacity	kW	2	2	2
		Current	A	9	9	9
		Breaker size	A	16	16	16
	Immersion heater*2	Power supply (Phase / V / Hz)		–	–	–
		Capacity	kW	–	–	–
		Current	A	–	–	–
		Breaker size	A	–	–	–
Domestic hot water tank		Volume / Material	L / –	170 / Stainless steel	200 / Stainless steel	300 / Stainless steel
Guaranteed operating range*1		Ambient	°C	0 - 35 (≦80%RH)		
	Outdoor	Heating	°C	See outdoor unit spec table		
		Cooling	°C	See outdoor unit spec table*4		
Target temperature range	Heating	Room temperature	°C	10~30		
		Flow temperature	°C	20~60		
	Cooling	Room temperature	°C	–		
		Flow temperature	°C	5~25		
DHW tank performance		Max. hot water temperature	°C	70		
		Water heater emergy efficiency class		A+		A
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.

R32

Packaged Type Specifications

<Hydro box (Reversible)> NEW

Model name				ERPX-VM2D
		Type		Heating and cooling
		Immersion heater		–
		Expansion vessel		✓
		Booster heater		✓
Dimensions		H×W×D	mm	800×530×360
Weight (empty)			kg	33
Control board power supply (Phase / V / Hz)				~/N, 230V, 50Hz
Heater	Booster heater	Power supply (Phase / V / Hz)		~/N, 230V, 50Hz
		Capacity	kW	2
		Current	A	9
		Breaker size	A	16
Guaranteed operating range*1	Ambient		°C	0~35 (≦80%RH)
	Outdoor	Heating	°C	See outdoor unit spec table
		Cooling	°C	See outdoor unit spec table *2
Target temperature range	Heating	Room temperature	°C	10~30
		Flow temperature	°C	20~60
	Cooling	Room temperature	°C	–
		Flow temperature	°C	–
Sound pressure level (PWL)			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.

R32

Packaged type	Small capacity (Under 5kW)*	Medium capacity (6.0kW–14kW)*
ZUBADAN New Generation		 PUZ-HWM140

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

Packaged type	Small capacity (Under 5kW)*	Medium capacity (8.0kW–11.2kW)*
POWER INVERTER	 PUZ-WM50	 PUHZ-WM85/112

*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 climate water outlet 35°C*3		Class		A+++	A+++	A+++	A+++
		η_s		183	193/190	191/189	176/175
Average climate water outlet 55°C*3		Class		A++	A++	A++	A++
		η_s		129	139/138	134/133	132/131
DHW 200L(L) Load Profile (Average climate)*4		Class		A+	A+	A+	A+
		η_{wh}		135	145	148	130
Max outlet water temperature (°C)				60	60	60	60
Cooling	A35W7*2	Nominal	kW	4.5	7.5	10.0	11.9
		EER		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)*5			dB(A)	61	58	60	67
Max operating current			A	13.0	22.0/11.5	28.0/13.0	35.0/13.0
Breaker size			A	16	25/16	32/16	40/16
Piping	Diameter	Liquid/Gas	mm	–	–	–	–
	Length	Out-In	m	–	–	–	–
	Height	Out-In	m	–	–	–	–
Guaranteed Operating Range	Heating		°C	–20°C~21°C	–20°C~21°C	–25°C~21°C	–28°C~21°C
	DHW		°C	–20°C~35°C	–20°C~35°C	–25°C~35°C	–28°C~35°C
	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 CO_2, 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 η_s values are measured based on EN14825.
*4 η_{wh} 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	✓	✓	
Wireless receiver	PAR-WR51R-E	✓	✓	
Thermistors	PAC-SE41TS-E	✓	✓	For room temp.
	PAC-TH011-E	✓	✓	For buffer and zone (flow and return temp.)
	PAC-TH011TK2-E	–	✓	For tank temp. (5m)
	PAC-TH012HT-E	✓	✓	For boiler and buffer (5m)
Immersion heater	PAC-IH01V2-E	✓	–	1Ph 1kW
	PAC-IH03V2-E	✓	–	1Ph 3kW
Wi-Fi interface	MAC-567IF-E	✓	✓	
2 Zone kit	PAC-TZ02-E	✓	✓	

<Outdoor unit>

Parts name	Model name	R32 (Eco Inverter)			R32 Heating only (Power Inverter)			R32 Heating only (ZUBADAN)			
		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	–	–	–	✓	✓	✓	✓	✓	✓	✓
Air discharge guide	MAC-886SG-E	✓	✓	✓	–	–	–	–	–	–	–
	PAC-SG59SG-E	–	–	–	–	–	–	–	–	–	–
	PAC-SH96SG-E*1	–	–	–	✓*1	✓*1	✓*1	✓*1	✓*1	✓*1	✓*1
Air protection guide	PAC-SH63AG-E	–	–	–	–	–	–	–	–	–	–
	PAC-SH95AG-E*1	–	–	–	✓*1	✓*1	✓*1	✓*1	✓*1	✓*1	✓*1
Attachement	PAC-SJ82AT-E	–	–	–	✓	✓	✓	✓	✓	✓	✓
Drain socket*2	PAC-SG61DS-E	–	–	–	✓	✓	✓	✓	✓	✓	✓
Centralized drain pan*2	PAC-SG64DP-E	–	–	–	–	–	–	–	–	–	–
	PAC-SH97DP-E	–	–	–	–	–	–	–	–	–	–
	PAC-SJ83DP-E	–	–	–	✓	✓	✓	✓	✓	✓	✓
Base heater	MAC-642BH-U1	✓	✓	✓	–	–	–	–	–	–	–
Control/Service tool	PAC-SK52ST	–	–	–	✓	✓	✓	✓	✓	✓	✓

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

Parts name	Model name	R410A (Power Inverter)					R410A (ZUBADAN)			
		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	✓	✓	✓	✓	✓	✓	✓	✓	✓
Air discharge guide	MAC-886SG-E	–	–	–	–	–	–	–	–	–
	PAC-SG59SG-E	–	–	✓	–	–	–	–	✓	–
	PAC-SH96SG-E	✓	✓	✓	✓	✓	✓	✓	–	✓
Air protection guide	PAC-SH63AG-E	–	–	✓	–	–	–	–	✓	–
	PAC-SH95AG-E	✓	✓	–	✓	✓	✓	✓	–	✓
Attachement	PAC-SJ82AT-E	✓	✓	–	–	–	✓	✓	–	✓
Drain socket*2	PAC-SG61DS-E	✓	✓	✓	✓	✓	✓	✓	–	–
Centralized drain pan*2	PAC-SG64DP-E	–	–	✓	–	–	–	–	–	–
	PAC-SH97DP-E	–	–	–	✓	✓	–	–	–	–
	PAC-SJ83DP-E	✓	✓	–	–	–	✓	✓	–	–
Base heater	MAC-642BH-U1	–	–	–	–	–	–	–	–	–
Control/Service tool	PAC-SK52ST	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

Interface/Flow Temperature Controller

Split type

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

Optional Parts

Packaged type

<Indoor unit>

Parts name	Model name	Cylinder	Hydrobox	Remarks
Wireless remote controller	PAR-WT50R-E	✓	✓	
Wireless receiver	PAR-WR51R-E	✓	✓	
Thermistors	PAC-SE41TS-E	✓	✓	For room temp.
	PAC-TH011-E	✓	✓	For buffer and zone (flow and return temp.)
	PAC-TH011TK2-E	–	✓	For tank temp. (5m)
	PAC-TH012HT-E	✓	✓	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	✓	✓	
2 Zone kit	PAC-TZ02-E	✓	✓	

<Outdoor unit>

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

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

Interface/Flow Temperature Controller

Packaged type

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

D Generation

Combination Table

Split Indoor/outdoor unit

Split indoor/outdoor unit combination		R32										R410A										ATA/ATW Hybrid system			
		Power inverter						ZUBADAN				Power inverter					ZUBADAN					Mr. SLIM+	PUMY		
		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	PUHZ-SW75V/YAA	PUHZ-SW100V/YAA	PUHZ-SW120V/YHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80V/YAA	PUHZ-SHW112V/YAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2	PUHZ-FRP71VHA2	PUMY-P112V/YKM(E)4	PUMY-P125V/YKM(E)4	PUMY-P140V/YKM(E)4
Heating only Cylinder	EHST17D-VM2D	●	●	●	●			●				●													
	EHST20D-VM2D	●	●	●	●	●	●	●	●	●	●	●													
	EHST20D-YM9D	●	●	●	●	●	●	●	●	●	●	●													
	EHST30D-YM9ED	●	●	●	●	●	●	●	●	●	●	●													
	EHST20C-VM2D												●	●			●	●	●		●	●	●	●
	EHST20C-VM6D												●	●			●	●	●		●	●	●	●
	EHST20C-YM9D												●	●			●	●	●		●	●	●	●
	EHST30C-VM6ED												●	●			●	●	●					
	EHST30C-YM9ED												●	●			●	●	●					
Reversible Cylinder	ERST17D-VM2D	●	●	●	●			●				●													
	ERST20D-VM2D	●	●	●	●	●	●	●	●	●	●	●													
	ERST30D-VM2ED	●	●	●	●	●	●	●	●	●	●	●													
	ERST20C-VM2D												●	●			●	●	●					
	ERST30C-VM2ED												●	●			●	●	●					
Heating only Hydro box	EHSD-VM2D	●	●	●	●	●	●	●	●	●	●	●													
	EHSD-YM9D	●	●	●	●	●	●	●	●	●	●	●													
	EHSC-VM2D												●	●			●	●	●		●			
	EHSC-VM6D												●	●			●	●	●		●	●	●	●
	EHSC-YM9D												●	●			●	●	●		●	●	●	●
	EHSE-YM9ED														●	●				●				
Reversible Hydro box	ERSD-VM2D	●	●	●	●	●	●	●	●	●	●	●													
	ERSC-VM2D												●	●			●	●	●					
	ERSE-MED														●	●				●				
	ERSE-YM9ED														●	●				●				

Packaged indoor/outdoor unit

Packaged indoor/outdoor unit combination		R32			
		Power inverter			ZUBADAN
		PUZ-WM50VHA	PUZ-WM85V/YAA	PUZ-WM112V/YAA	PUZ-HWM140V/YHA
Reversible Cylinder	ERPT17X-VM2D	●	●		
	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.

] MELCloud uses the MAC-567IF-E interface

Key Control and Monitoring Features

1. **Turn system on/off**
2. **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
5. **Check energy usage report*** *Additional metering hardware is required.

All A^{++} or Above!!

		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 L_{WA} indoor	Sound power level L_{WA} 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 L_{WA} indoor	Sound power level L_{WA} outdoor
				kW	%	%	dB	dB			kW	%	%	dB	dB
SUZ-SWM40VA	EHST17D-***D	A^{++}	A^{+}	4.6	129	148	41	58	A^{+++}	A^{+}	5.1	180	148	41	58
	ERST17D-***D	A^{++}	A^{+}	4.6	132	148	41	58	A^{+++}	A^{+}	5.1	187	148	41	58
	EHST20D-***D	A^{++}	A^{+}	4.6	129	159	41	58	A^{+++}	A^{+}	5.1	180	159	41	58
	ERST20D-***D	A^{++}	A^{+}	4.6	132	159	41	58	A^{+++}	A^{+}	5.1	187	159	41	58
	EHST30D-***D	A^{++}	A^{+}	4.6	129	128	41	58	A^{+++}	A^{+}	5.1	180	128	41	58
	ERST30D-***D	A^{++}	A^{+}	4.6	132	128	41	58	A^{+++}	A^{+}	5.1	187	128	41	58
	EHSD-***D	A^{++}	–	4.6	129	–	41	58	A^{+++}	–	5.1	180	–	41	58
	ERSD-***D	A^{++}	–	4.6	132	–	41	58	A^{+++}	–	5.1	187	–	41	58
SUZ-SWM60VA	EHST17D-***D	A^{++}	A^{+}	6.0	130	144	41	60	A^{+++}	A^{+}	6.6	181	144	41	60
	ERST17D-***D	A^{++}	A^{+}	6.0	133	144	41	60	A^{+++}	A^{+}	6.6	187	144	41	60
	EHST20D-***D	A^{++}	A^{+}	6.0	130	148	41	60	A^{+++}	A^{+}	6.6	181	148	41	60
	ERST20D-***D	A^{++}	A^{+}	6.0	133	148	41	60	A^{+++}	A^{+}	6.6	187	148	41	60
	EHST30D-***D	A^{++}	A^{+}	6.0	130	128	41	60	A^{+++}	A^{+}	6.6	181	128	41	60
	ERST30D-***D	A^{++}	A^{+}	6.0	133	128	41	60	A^{+++}	A^{+}	6.6	187	128	41	60
	EHSD-***D	A^{++}	–	6.0	130	–	41	60	A^{+++}	–	6.6	181	–	41	60
	ERSD-***D	A^{++}	–	6.0	133	–	41	60	A^{+++}	–	6.6	187	–	41	60
SUZ-SWM80VA	EHST17D-***D	A^{++}	A^{+}	7.1	131	144	41	62	A^{+++}	A^{+}	7.1	182	144	41	62
	ERST17D-***D	A^{++}	A^{+}	7.1	133	144	41	62	A^{+++}	A^{+}	7.1	187	144	41	62
	EHST20D-***D	A^{++}	A^{+}	7.1	131	148	41	62	A^{+++}	A^{+}	7.1	182	148	41	62
	ERST20D-***D	A^{++}	A^{+}	7.1	133	148	41	62	A^{+++}	A^{+}	7.1	187	148	41	62
	EHST30D-***D	A^{++}	A^{+}	7.1	131	128	41	62	A^{+++}	A^{+}	7.1	182	128	41	62
	ERST30D-***D	A^{++}	A^{+}	7.1	133	128	41	62	A^{+++}	A^{+}	7.1	187	128	41	62
	EHSD-***D	A^{++}	–	7.1	131	–	41	62	A^{+++}	–	7.1	182	–	41	62
	ERSD-***D	A^{++}	–	7.1	133	–	41	62	A^{+++}	–	7.1	187	–	41	62
PUD-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^{++}	A	8.0	131/130	121	41	56	A^{+++}	A	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^{++}	A	10.0	131/130	121	41	59	A^{+++}	A	10.0	178/177	121	41	59
	E*SD-***D	A^{++}	–	10.0	131/130	–	41	59	A^{+++}	–	10.0	178/177	–	41	59
PUD-SWM120V/YAA(-BS)	E*ST20D-***D	A^{++}	A^{+}	12.0	129/128	148	41	60	A^{+++}	A^{+}	12.0	177/176	148	41	60
	E*ST30D-***D	A^{++}	A	12.0	129/128	121	41	60	A^{+++}	A	12.0	177/176	121	41	60
	E*SD-***D	A^{++}	–	12.0	129/128	–	41	60	A^{+++}	–	12.0	177/176	–	41	60
PUD-SHWM80V/YAA(-BS)	E*ST17D-***D	A^{++}	A^{+}	8.0	135/134	136	41	56	A^{+++}	A^{+}	8.0	181/179	136	41	56
	E*ST20D-***D	A^{++}	A^{+}	8.0	135/134	148	41	56	A^{+++}	A^{+}	8.0	181/179	148	41	56
	E*ST30D-***D	A^{++}	A	8.0	135/134	121	41	56	A^{+++}	A	8.0	181/179	121	41	56
	E*SD-***D	A^{++}	–	8.0	135/134	–	41	56	A^{+++}	–	8.0	181/179	–	41	56

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

Outdoor unit	Indoor unit	For medium-temperature application							For low-temperature application						
		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 L_{WA} indoor	Sound power level L_{WA} 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 L_{WA} indoor	Sound power level L_{WA} outdoor
				kW	%	%	dB	dB			kW	%	%	dB	dB
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++	A	10.0	136/135	121	41	59	A+++	A	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++	A	12.0	135/134	121	41	60	A+++	A	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++	A	14.0	134/134	121	41	62	A+++	A	14.0	179/177	121	41	62
	E*SD-***D	A++	–	14.0	134/134	–	41	62	A+++	–	14.0	179/177	–	41	62
PUHZ-SW75V/YAA(-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++	A	7.1	129/128	120	41	58	A++	A	7.2	162/160	120	41	58
	ERST30D-***D	A++	A	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
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++	A	10.0	130/129	120	40	60	A++	A	10.6	167/165	120	40	60
	ERST30C-***D	A++	A	10.0	132/132	120	40	60	A++	A	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++	A	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
	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
	ERSE-***D	A++	–	13.5	126	–	45	78	A++	–	15.3	152	–	45	78
PUHZ-SW200YKA(-BS)	EHSE-***D	A++	–	15.5	127	–	45	78	A++	–	17.3	147	–	45	78
	ERSE-***D	A++	–	15.5	129	–	45	78	A++	–	17.3	148	–	45	78
PUHZ-SHW80V/YAA(-BS)	EHST20C-***D	A++	A+	9.0	133/132	145	40	59	A++	A+	9.6	169/167	145	40	59
	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

All A^{++} or Above!!

		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 L_{WA} indoor	Sound power level L_{WA} 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 L_{WA} indoor	Sound power level L_{WA} outdoor
				kW	%	%	dB	dB			kW	%	%	dB	dB
PUHZ-SHW140YHA	EHST20C-***D	A^{++}	A^{+}	15.8	127	138	40	70	A^{++}	A^{+}	17.0	163	138	40	70
	ERST20C-***D	A^{++}	A^{+}	15.8	128	138	40	70	A^{++}	A^{+}	17.0	165	138	40	70
	EHST30C-***D	A^{++}	A	15.8	127	118	40	70	A^{++}	A	17.0	163	118	40	70
	ERST30C-***D	A^{++}	A	15.8	128	118	40	70	A^{++}	A	17.0	165	118	40	70
	EHSC-***D	A^{++}	–	15.8	127	–	40	70	A^{++}	–	17.0	163	–	40	70
	ERSC-***D	A^{++}	–	15.8	128	–	40	70	A^{++}	–	17.0	165	–	40	70
PUHZ-SHW230YKA2	EHSE-***D	A^{++}	–	23.0	127	–	45	75	A^{++}	–	25.0	164	–	45	75
	ERSE-***D	A^{++}	–	23.0	128	–	45	75	A^{++}	–	25.0	165	–	45	75
PUZ-WM50VHA(-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-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^{++}	A	8.5	139/138	120	40	58	A^{+++}	A	8.5	193/190	120	40	58
	ERPT30X-***D(W)	A^{++}	A	8.5	141/141	120	40	58	A^{+++}	A	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^{++}	A	10.0	134/133	120	40	60	A^{+++}	A	10.0	191/189	120	40	60
	ERPT30X-***D(W)	A^{++}	A	10.0	136/136	120	40	60	A^{+++}	A	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^{++}	A	14.0	132/131	118	40	67	A^{+++}	A	14.0	176/175	118	40	67
	ERPT30X-***D(W)	A^{++}	A	14.0	133/133	118	40	67	A^{+++}	A	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^{+}	A	11.2	121/121	106	40	69	A^{++}	A	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^{+}	A	11.2	121/121	106	40	69	A^{++}	A	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^{+}	A	11.2	121/121	106	40	69	A^{++}	A	11.2	168/168	106	40	69
	EHSC-***D	A^{+}	–	11.2	121/121	–	40	69	A^{++}	–	11.2	168/168	–	40	69

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

Refrigerant Amount

M/S/P/Multi/Zubadan/ATW

	Model Name	Refrigerant		Pre-charged quantity		Max. added quantity	
			GWP	Weight [kg]	CO_2 equivalent [t]	Weight [kg]	CO_2 equivalent [t]
PUMY	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-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
ATW Packaged	PUZ-WM50VHA	R32	675	2.0	1.35	–	–
	PUZ-WM85V/YAA	R32	675	2.2	1.49	–	–
	PUZ-WM112V/YAA	R32	675	3.0	2.03	–	–
	PUZ-HWM140V/YHA	R32	675	3.3	2.2275	–	–
ATW Split	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
	PUD-SHWM120V/YAA	R32	675	1.7	1.1475	0.13	0.09
	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