AIR-TO-WATER OUTDOOR UNITS
PUD-SWM80-120YAA / PUD-SHWM80-140YAA

Efficient air-to-water outdoor units.

Outdoor units with the refrigerant R32 which has become even more environmentally friendly and more efficient.
Our range of split air-to-water heat pumps are designed to fit a large area of uses, and offers a profitable solution for those different requirements that real estate requires.

✔ A+++
✔ Low noise level
✔ More environmentally friendly with R32
✔ Guaranteed operation down to -25 ºC with Power Inverter
✔ Guaranteed operation down to - 28ºC with Zubadan

R32

POWER INVERTER

ZUBADAN New Generation

SPLIT

Product information

OUTDOOR UNIT - PUD-SWM / SHWM YAA

OUTDOOR UNIT (MODEL)			POWER INVERTER			ZUBADAN			
			PUD-SWM80YAA	PUD-SWM100YAA	PUD-SWM120YAA	PUD-SHWM80YAA	PUD-SHWM100YAA	PUD-SHWM120YAA	PUD-SHWM140YAA
HEATING	(A) Pdesign / SCOP 35°C* /ηs %	kW/rank/SCOP/%	8/A+++/4,4/176	10/A+++/4,43/177	12/A+++/4,4/176	8/A+++/4,48/179	10/A+++/4,45/178	12/A+++/4,43/177	14/A+++/4,43/177
	(A) Pdesign / SCOP 55°C* /ηs %	kW/rank/SCOP/%	8/A++/3,23/130	10/A++/3,25/130	12/A++/3,2/128	8/A++/3,35/134	10/A++/3,38/135	12/A++/3,35/134	14/A++/3,35/134
	(C) Pdesign / SCOP 35°C* /ηs %	kW/rank/SCOP/%	8/A++/3,45/138	10/A++/3,63/145	12/A++/3,48/139	8/A++/3,58/143	10/A++/3,7/148	12/A++/3,7/148	14/A++/3,6/144
	(C) Pdesign / SCOP 55°C* /ηs %	kW/rank/SCOP/%	8/A+/2,73/109	10/A+/2,73/109	12/A+/2,7/108	8/A+/2,83/113	10/A+/2,85/114	12/A+/2,85/114	14/A+/2,8/112
	A7/W35 / Capacity / Input / COP****	kW / kW / COP	6,0/1,26/4,76	8,0/1,6/5,0	10,0/2,13/4,70	6/1,19/5,03	8/1,6/5	10/2,08/4,80	12/2,55/4,70
	Capacity at -15°C /+35°C	kW	7,3	9	10,4	8,8	10,7	12,3	14,2
	Capacity at -15°C /+50°C	kW	6,6	8,5	9,5	8,2	10,3	12	14
	Capacity at -25°C /+45°C	kW	4,7	6,9	8	-	-	-	-
	Capacity at -28°C /+45°C	kW	-	-	-	5,3	7,7	9,2	9,6
	Heating Capacity (Min-Nominal-Max) A7/W45	kW	2,2 - 6,0 - 8,2	2,3 - 8,0 - 10,0	2,3 - 10,0 - 12,1	2,2 - 6,0 - 8,2	2,3 - 8,0 - 10,0	2,3 - 10,0 - 12,1	3,2 - 12,0 - 13,9
Dimensions (B x H x D)		mm				1050 x 1020 x 480			
Weight		kg	114	120	120	115	121	121	122
Guaranteed operation range heating		°C	-25	-25	-25	-28	-28	-28	-28
Sound level - Heating (SPL) **		dB(A)	42	44	46	42	44	46	48
Sound level - Heating (PWL) Lwa ***		dB(A)	56	59	60	56	59	60	62
Pipe dimension flare (Liquid / Gas)		tum	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"
Piping length min-max		m	2-30	2-30	2-30	2-30	2-30	2-30	2-25
Max. height difference		m	30	30	30	30	30	30	25
Recommended breaker size		A	3 x16	3 x16	3 x16	3 x16	3 x16	3 x16	3 x16
Operating current (Max)		A	8	10	12	8	10	12	12
Electric data		V / Fas / Hz	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Flow min / max		l/min	9 - 22,9	14,3 - 34,4	14,3 - 34,4	9 - 22,9	14,3 - 34,4	14,3 - 34,4	14,3 - 34,4
Delivered pre filled pipe length		m	15	15	15	15	15	15	15
GWP / CO2 EQUIVALENT									
Refrigerant*****			R32	R32	R32	R32	R32	R32	R32
GWP			675	675	675	675	675	675	675
Refrigerant charge	Weight	kg	1,3	1,6	1,6	1,4	1,7	1,7	1,7
	CO2-equivalent	ton	0,88	1,08	1,08	0,95	1,15	1,15	1,15
Max refrigerant charge	Weight	kg	1,6	1,8	1,8	1,7	1,8	1,8	1,8
	CO2-equivalent	ton	1,08	1,24	1,24	1,15	1,24	1,24	1,24

Indicated data is in combination with EHST20D-YM9D
* The efficiency of the system is reported in combination with the integrated system temperature regulator. If the outdoor parts is installed in another combination, the efficiency must be trans lated. SCOP Seasonal Coefficient of Performance. Annual average efficiency. SCOP for the average climate zone according to ErP Directive 811/2013.
** Specified at rated power.
*** According to EN12102

**** Reported effect according to EN 14511 including defrosting and part load operation.
***** This product contains refrigerant type R32 with a GWP value of 675 (CO2=1kg)
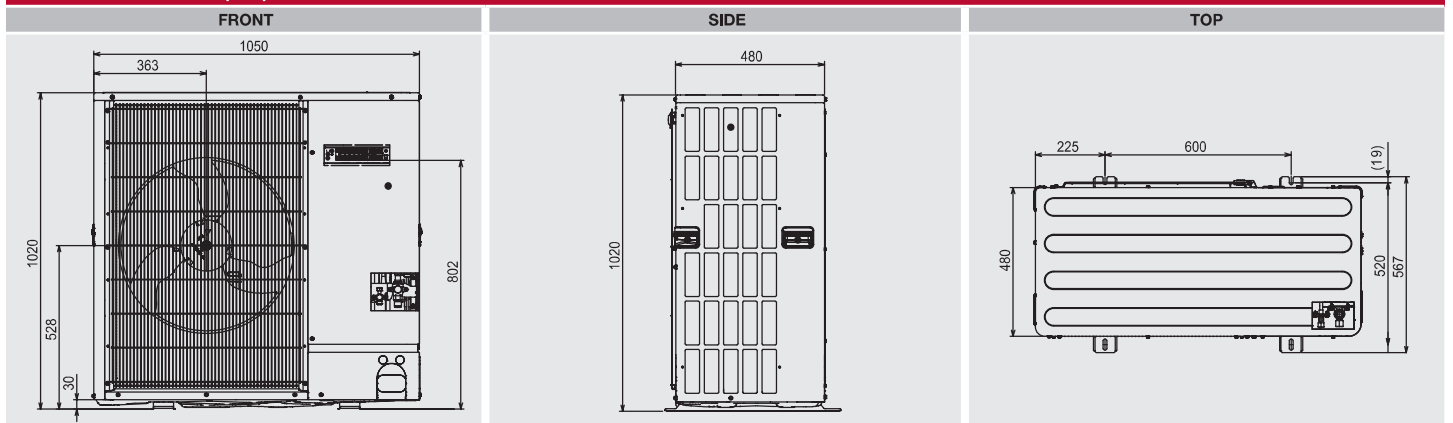When interfering with the system, requirements apply according to the current F-gas regulation. This GWP value is based on Directive (EU) 517/2014 of the IPCC 4th edition.

(A) Average climate (C) Cold climate
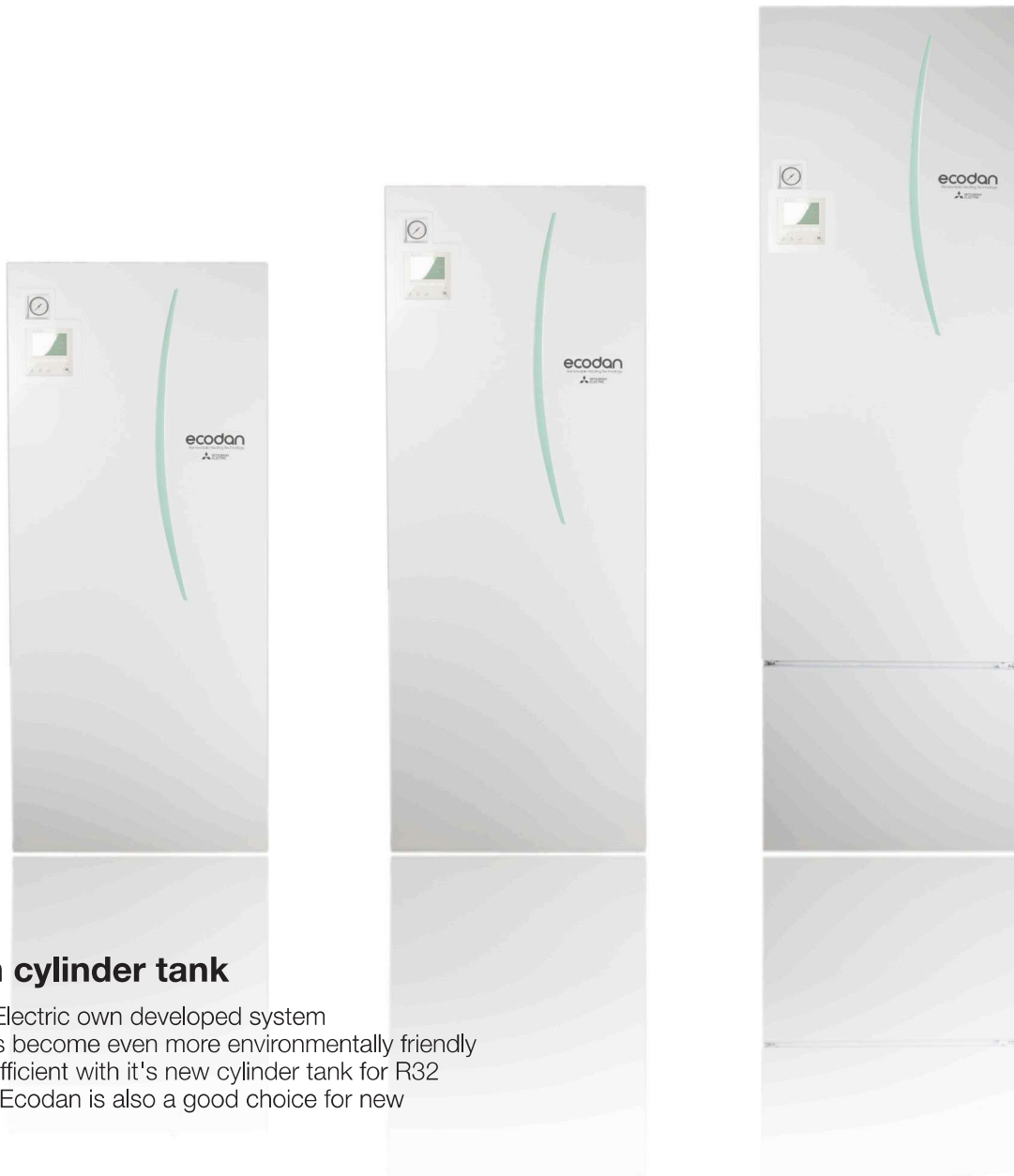
ACCESSORIES - PUD-SWM / SHWM YAA

ARTICLE	INFORMATION
SVH-41T-P1,2	Quick connector for connecting heating cable.
MARKSTATIV AA	Stainless steel stand. Fits all PUZ-YAA.
VDR-AA	Angled drip tray for mounting under the drip tray of the outdoor unit. Comes with 3 m heating cable and quick connector. Fits Markstativ AA.
SH-AA	Snow and Windshield fit all PUZ-YAA outdoor units. Color: gray / black
DP-PUHZ-AA	Stainless steel drip tray with mounted electric heating coil (MAC-AUTO8-E1). Packed heating cable 2 m for installation in drainage. Fits only Markstativ AA.
MAC-AUTO3-1,5	Heating cable 1.5 m incl. klixon, for installation in drainage drains.
MAC-AUTO3-2-E1	Heating cable 2 m incl. klixon, for installation in drainage drains.
MAC-AUTO3-3-E1	Heating cable 3 m incl. klixon, for installation in drainage drains.
MAC-AUTOSTART1	Control heater, complete control with thermostat and residual-current circuit breaker for heating cables. A total of 6 heaters can be controlled.

TECHNICAL DRAWING (MM) - PUD-SWM / SHWM YAA

FRONT · SIDE · TOP

MELcalc™ MITSUBISHI ELECTRIC HEATING AND COOLING

ECODAN CYLINDER TANK
EHST17D-YM9D / EHST20D-YM9D / EHST30D-YM9ED

Ecodan cylinder tank

Mitsubishi Electric own developed system
Ecodan has become even more environmentally friendly
and more efficient with it's new cylinder tank for R32
refrigerant. Ecodan is also a good choice for new
production.

R32   **SPLIT**   **170L**   **200L**   **300L**   **BBR** APPROVED

Product information

INDOOR UNIT - ECODAN CYLINDER TANK SPLIT

INDOOR UNIT / ARTICLE		EHST17D-YM9D	EHST20D-YM9D*	EHST30D-YM9ED
Energy efficiency heating W35ºC*	RANK	A+++	A+++	A+++
Energy efficiency hot water	RANK	A+	A+	A
Tap profile hot water	Profile	L	L	XL
Immersion heater	kW	3 + 6	3 + 6	3 + 6
Dimensions (H x W x D) (ceiling height)	mm	595 x 1400 x 680 (1630)	595 x 1600 x 680 (1820)	595 x 2050 x 680 (2250)
Weight (full / empty)	kg	269 / 93	314 / 106	425 / 116
Hot water Volume	Liter	170	200	300
Max. flow temperature	°C	60	60	60
Min. flow temperature	°C	20	20	20
Braker size / Immersion heater	A	3 x 16	3 x 16	3 x 16
Electric data	V / Fas / Hz	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Operating current (max)	A	13	13	13
Setting min - max temperature	°C	0 - 35	0 - 35	0 - 35
Room temperature range	°C	10 - 30	10 - 30	10 - 30
Built-in expansion vessel	Liter	12	12	-
Sound power level (PWL)	dB(A)	40	40	40

*   In combination with PUD-SWM80YAA

ACCESSORIES - ECODAN CYLINDER TANK SPLIT

ARTICLE	INFORMATION
GUIDELINE ECODAN D	Installation and start guideline
VALVE PACKAGE	Valve package with valves pipes, filling valve, check valve and thermostatic mixing valve.
TC35L	Volume tank for installations in combination with cylinder tank to ensure water volume and flow in heating systems with floor heating and radiators.
PAC-IH01V2-E	1 kW immersion heater enables hot water and heat production at the same time. Mounted directly in the tank on site before filling with water.
PAC-IH03V2-E	Immersion heater for extra hot water production during operation heating system. Installed directly in place in the tank before filling water.
PAR-WT50R-E	Wireless remote control with built in room sensor, for adaptive room temperature control, extra hot water and holiday function.
PAR-WR51R-E	Wireless reciever in combination with PAR-WT50R-E, for connection to circuit board in cylinder tank.
PAC-SE41TS-E	Wired room sensor for connection directly to circuit board in cylinder tank.
MF-1	Magnetic filter 1" connection.
EKR-8L	Expansion vessel 8 liter stainless for hot water, preprinted 6,3 bar.
EKP-12L	Expansion vessel hot side 12 liter.
PAC-TH011-E	Front/Return sensor 2-zone control. NOTE! 2 pieces are required!
PAC-TH011HT-E	Front / return sensor when additional heat source is required.
MAC-567IF-E	Wifi interface cloud based control with smartphone, computer or tablet.
S-E-NG-250	Ecodan extension kit, stand for Ecodan cylinder tank. Height=250mm.
PROCON MELCOBEMS MINI (A1M)	Modbus interface for control/monitoring with modbus protocol.
PAC-TZ02-E	2 zons kit for connection to Ecodan cylinder tank with adjustable circulation pumps.

TECHNICAL DRAWING (MM)

EHST17D-YM9D	EHST20D-YM9D	EHST30D-YM9ED

MELcalc™   **MITSUBISHI ELECTRIC** HEATING AND COOLING