

# 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 °C with Power Inverter
- ✓ Guaranteed operation down to - 28°C with Zubadan

R32



SPLIT

# Product information

OUTDOOR UNIT - PUD-SWM / SHWM YAA			POWER INVERTER			ZUBADAN			
OUTDOOR UNIT (MODEL)			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	
<b>GWP / CO2 EQUIVALENT</b>									
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	
	CO2-equivalent	ton	0,88	1,08	1,08	0,95	1,15	1,15	
Max refrigerant charge	Weight	kg	1,6	1,8	1,8	1,7	1,8	1,8	
	CO2-equivalent	ton	1,08	1,24	1,24	1,15	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 translated. 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)

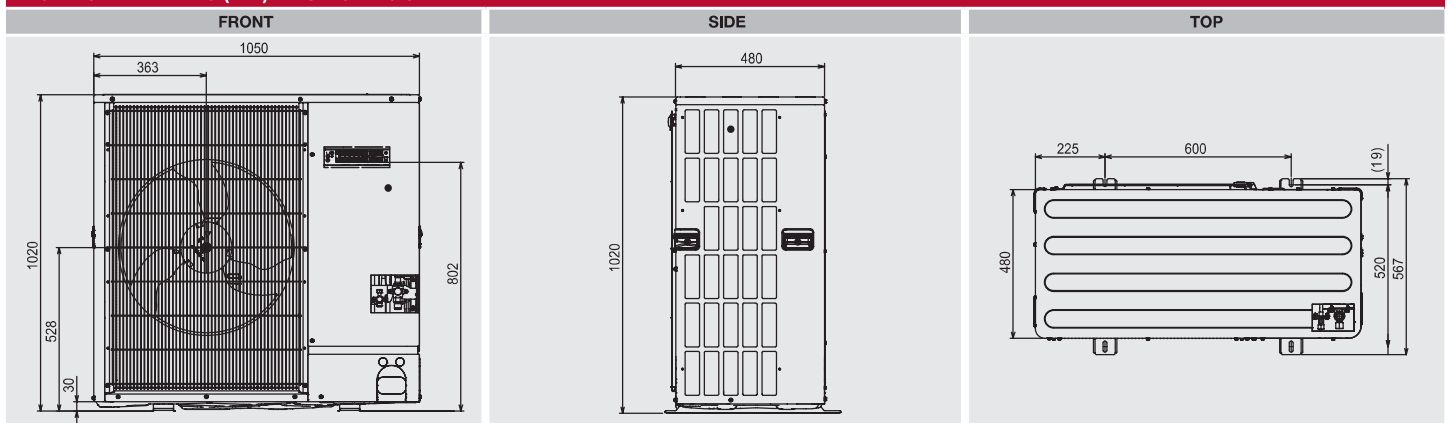
When interfering with the system, requirements apply according to the current F-gas regulation. This GWP value is based on Directive (EU) 517/2014 of the IPCC 4th edition.

(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



# ECODAN HYDROBOX EHSD-YM9D



## Use existing system with Ecodan Hydrobox

Ecodan hydrobox solution is a flexible system where you can use your existing heating system ex. pellets, solar or firewood to integrate the heat pump into your facility. Ecodan is an energy efficient choice for your house.

- ✓ Flexible system
- ✓ Easy control via WiFi or remote control

**R32**

**SPLIT**

**BBR  
APPROVED**

# Product information

## INDOOR UNIT - ECODAN HYDROBOX SPLIT

INDOOR UNIT / ARTICLE		EHSD-YM9D
Energy efficiency heating W35 °C*	RANK	A++
Immersion heater	kW	3 + 6
Dimensions (W x H x D)	mm	530 x 800 x 360
Weight (full / empty)	kg	49 / 44
Max. flow temperature	°C	60
Min. flow temperature	°C	20
Braker size / Immersion heater	A	3 x 16
Electric data	V / Fas / Hz	3 / 50 / 400
Operating current (Max)	A	13
Setting min - max temperature	°C	0 - 35
Room temperature range	°C	10 - 30

\* In combination with PUD-SWM80YAA

## ACCESSORIES - ECODAN HYDROBOX 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.
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 receiver in combination with PAR-WT50R-E, for connection to circuit board in hydrobox.
PAC-SE41TS-E	Wired room sensor for connection directly to circuit board in hydrobox.
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. <b>NOTE! 2 pieces are required!</b>
PAC-TH011TK2-E	Hot water sensor THW5 for mounting in external hot water tank / heater.
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.
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.
ARA645-230V	Valve motor for VRG132-4025 230V for connection to terminal in hydrobox. RSK 539 62 03
VRG132 DN25	3-Way valve housing DN25 with 2 "external thread for switching to hot water or to brine systems. RSK 490 54 54

## TECHNICAL DRAWING (MM) - EHSD-YM9D

