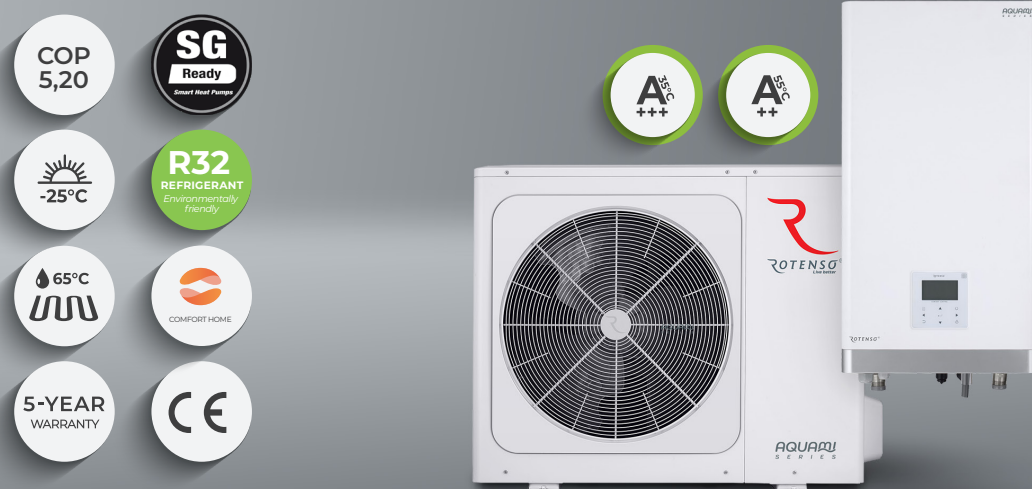




































# Aquami Split heat pump

AQS80X1o<sup>[R14]</sup> / AQS100X13i<sup>[R14]</sup>



## Device features

							
Environmentally friendly refrigerant R32	Efficient heating	Energy efficiency class at 35°C A+++	Energy efficiency class at 55°C A++	Maximum COP 5,20	Operating range down to -25°C	Supply water temperature of 65°C	Integrated USB port for updates
							
Energy meter	Smart Grid functionality	Twin rotary compressor	Integrated electric heater	Outdoor unit drip tray heater	Compressor crankcase heater	Indoor unit drip tray	Easy installation and maintenance
							
Compact indoor split unit housing	Maximum installation length up to 30m	Silent mode	Built-in Wi-Fi module	Daily operation schedule	Configurable weekly schedules	Vacation mode	Menu in English
							
Multilanguage menu	Integrated temperature sensor	Weather operating modes (climate curve)	2 heating control zones	Dedicated application	Disinfection	DHW circulation pump operation schedules	Maximum leaving water temperature of 60°C (in DHW mode)
							
Prepared to create a cascade system	Modbus Protocol						

# Specification indoor unit

Model			AQS100X13i R14			
EAN Code			5905567602122			
Compatible outdoor unit model			AQS80X1o / AQS100X1o			
Operation modes			Heating and cooling			
Leaving water temperature	Surface cooling	°C	5-25			
	Surface heating	°C	25-65			
	DHW (tank)		30-60			
Power supply		V-Hz, Ø	220-240-50, 1f / 380-420-50, 3f			
Rated input / Operating current		W / A	9095 / 13,5			
Sound power level		dB(A)	42			
Electric heater	Power supply	V-Hz, Ø	220-240-50, 1f / 380-420-50, 3f			
	Number of heating stages / Power	pcs. / kW	3 / 9 (3 + 3 + 3)			
	Maximum running current	A	13,3			
Net dimensions		(W×D×H)	mm		42 0× 270 × 790	
Gross dimensions			mm		525 × 360 × 1050	
Net weight / Gross weight			kg		37/43	
Water circuit	Water connections		inch		R1" external	
	Pressure relief valve		MPa		0,3	
	Condensate drain				Ø25	
	Expansion tank	Total volume / Actual volume		l		8 / 4,8
		Maximum pressure / Initial pressure		MPa		0,3 / 0,1
	PHE / plate heat exchanger	Type		PHE / plate heat exchanger		
		Minimum flow		l/min		10
	Water pump head		m		9	
	Water pump type				DC	
Refrigerant circuit	Liquid / Gas		mm		Ø9,52 (3/8") / Ø15,9 (5/8")	
Power cables: indoor unit		pcs × mm²		5 × 4,0		
Control cables: indoor unit to outdoor unit		pcs × mm²		2 × 0.75 (shielded cable)		

# Specification outdoor unit

Model			AQS80X1o R14
EAN Code			5905567602061
Power supply			220-240-50, 1f
Heating (A7W35)	Capacity	kW	8,30
	Rated input	kW	1,60
	COP		5,20
Heating (A7W45)	Capacity	kW	8,20
	Rated input	kW	2,08
	COP		3,95
Heating (A7W55)	Capacity	kW	7,50
	Rated input	kW	2,36
	COP		3,18
Cooling (A35W18)	Capacity	kW	8,40
	Rated input	kW	1,66
	EER		5,05
Cooling (A35W7)	Capacity	kW	7,40
	Rated input	kW	2,19
	EER		3,38
Seasonal energy efficiency LWT 35°C	SCOP <sup>(1)</sup>		5,21
	Rated heat output	kW	8,1
	Seasonal energy efficiency ratio (η <sub>S</sub> )	%	205,6
	Annual energy consumption	kWh	3218
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A+++
Seasonal energy efficiency LWT 55°C	SCOP <sup>(1)</sup>		3,36
	Rated heat output	kW	6,6
	Seasonal energy efficiency ratio (η <sub>S</sub> )	%	131,6
	Annual energy consumption	kWh	4054
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A++
SEER	LWT at 7°C		5,83
	LWT at 8°C		8,95
Maximum overcurrent protection (MOP)		A	20
Minimum circuit amps (MCA)			16
Compressor	Type		Twin rotary inverter compressor DC
	Type		Brushless DC motor / BLDC
Fan	Quantity		1
	Type/ GWP		R32 / 675
Refrigerant	Charged (<15m)	kg	1,65
		TCO <sub>eq</sub>	1,11
			Ø9,52 (3/8") / Ø15,9 (5/8")
Pipe connections	Liquid / Gas	mm	2
	Minimum installation length	m	30
	Maximum installation length	m	38
	Additional amount of refrigerant for over 15 linear meters	g/m	20
Maximum height difference	Outdoor unit above the indoor unit	m	20
	Outdoor unit below the indoor unit	m	20
Power cables: outdoor unit		pcs x mm²	3 x 4
Control cables: indoor unit to outdoor unit		pcs x mm²	2 x 0,75 (shielded cable)
Bracket spacing		(WxD)	656x456
Sound pressure level		dB(A)	46
Sound power level			59
Net dimensions		(WxDxH) mm	1118x523x865
Gross dimensions		(WxDxH) mm	1180x560x890
Net weight/Gross weight		kg	75/89
Operating outdoor temperature	Cooling	°C	-5-43
	Heating	°C	-25-35
	DHW	°C	-25-43

1. Seasonal energy efficiency class measured under average climate conditions.

Notes:

DHW - Domestic hot water

LWT - Leaving water temperature

The sound pressure level is measured 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W45, ΔT=5; A7W55 ΔT=8; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) No. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014.