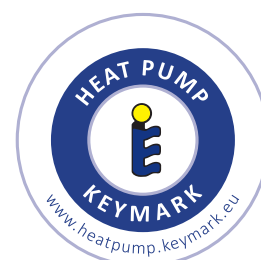
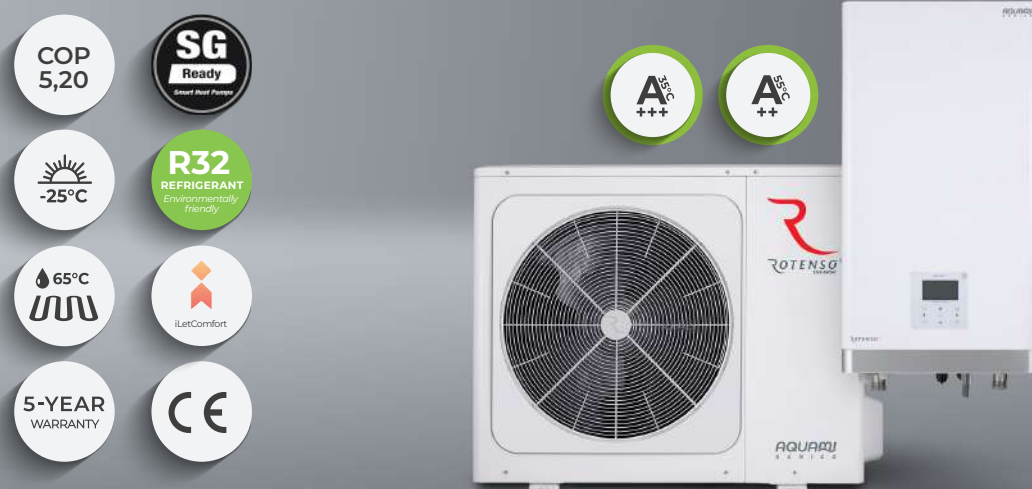




































# Aquami Split heat pump

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			AQS100X131 R14		
EAN Code			5905567602122		
Operation modes			Heating and cooling		
Leaving water temperature	Surface cooling	°C	5-25		
	Surface heating	°C	25-65		
	DHW (tank)	°C	30-60		
Power supply		V-Hz, Ø	220-240-50, 1f / 380-420-50, 3f		
Rated input		W	9095		
Operating current		A	13,5		
Sound power level		dB(A)	43		
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	420 × 270 × 790		
Gross dimensions		(W×D×H) mm	525 × 360 × 1050		
Net weight / Gross weight		kg	39 / 45		
Water circuit	Water connections		inch	R1" external	
	Pressure relief valve		MPa	0,3	
	Condensate drain		mm	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 inverter	
Refrigerant circuit		Liquid / Gas	mm	Ø9,52 / Ø15,9	
Minimal wire pcs and dimension of cords*		pcs × mm²		5 × 2,5	
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 (A7/W35)	Capacity	kW	8,30	
	Rated input	kW	1,60	
	COP		5,20	
Heating (A7/W45)	Capacity	kW	8,20	
	Rated input	kW	2,08	
	COP		3,95	
Heating (A7/W55)	Capacity	kW	7,50	
	Rated input	kW	2,36	
	COP		3,18	
Cooling (A35/W18)	Capacity	kW	8,40	
	Rated input	kW	1,66	
	EER		5,05	
Cooling (A35/W7)	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	
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B20	
Compressor	Type		Twin rotary inverter compressor DC	
Fan	Type		Brushless DC motor / BLDC	
	Quantity		1	
Refrigerant	Type/ GWP		R32 / 675	
	Charged (<15m)	kg	1,65	
		TCO <sub>2</sub> eq		1,11
Pipe connections	Liquid / Gas		Ø9,52 (3/8") / Ø15,9 (5/8")	
	Minimum installation length		2	
	Maximum installation length		30	
	Additional amount of refrigerant for over 15 linear meters		g/m	38
Maximum height difference	Outdoor unit above the indoor unit		20	
	Outdoor unit below the indoor unit		20	
Minimal wire pcs and dimension of cords*		pcs × mm²	3 × 4	
Control cables: indoor unit to outdoor unit		pcs × mm²	2 × 0,75 (shielded cable)	
Bracket spacing		(W×D)	656×456	
Sound pressure level		dB(A)	46	
Sound power level		dB(A)	59	
Net dimensions	(W×D×H)	mm	1118×523×865	
Gross dimensions	(W×D×H)	mm	1180×560×890	
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

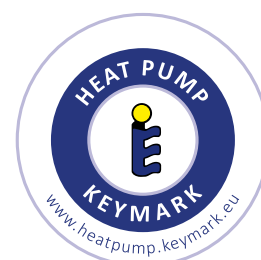
The sound pressure level is measured 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum 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) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014.

The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than IΔn: 30mA




































\*The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.

# Aquami All in Split heat pump

AQS80X1o<sup>[R14]</sup> / AQS100T190X1i<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)
							
Integrated DHW tank	Tank of stainless steel	Built-in switching valve					

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) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014.

Rotenso reserves the right to make changes to its products without prior notice.

# Specification indoor unit

Model				AQ5100T190X11 R14				
EAN code				5905567602146				
Operation modes				Heating and cooling				
Leaving water temperature	Surface cooling		°C	5-25				
	Surface heating		°C	25-65				
	DHW (tank)		°C	30-60				
Power supply			V-Hz, Ø	220-240-50, 1f				
Rated input / Operating current			W / A	3095 / 13.5				
Sound power level			dB(A)	38				
Electric heater	Power supply		V-Hz, Ø	220-240-50, 1f				
	Number of heating stages / Power		pcs. / kW	1 / 3				
	Maximum operating current		A	13.3				
Net dimensions		(W×D×H)	mm	600×600×1683				
Gross dimensions		(W×D×H)	mm	653×653×1900				
Net weight / Gross weight			kg	139/154				
Water circuit	Water connections		inch	R1" external				
	Pressure relief valve		MPa	0.3				
	Condensate drain		mm	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	6			
	Water pump head		m	9				
	Water pump head			DC				
	DHW tank	Tank material		Stainless steel 316L				
		Housing material/colour		Polyurethane foam, steel / white				
		Tank capacity		l	190			
		Maximum water temperature (disinfection mode)		°C	70			
		Insulation thickness		mm	45			
		Maximum pressure		bar	10			
Refrigerant circuit	Liquid / Gas		mm	Ø9,52 (3/8") / Ø15,9 (5/8")				
Minimal wire pcs and dimension of cords*			pcs × mm²	3 × 2.5				
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 (A7/W35)	Capacity	kW	8,30	
	Rated input	kW	1,60	
	COP		5,20	
Heating (A7/W45)	Capacity	kW	8,20	
	Rated input	kW	2,08	
	COP		3,95	
Heating (A7/W55)	Capacity	kW	7,50	
	Rated input	kW	2,36	
	COP		3,18	
Cooling (A35/W18)	Capacity	kW	8,40	
	Rated input	kW	1,66	
	EER		5,05	
Cooling (A35/W7)	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 (ηS)	%	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 (ηS)	%	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	
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B20	
Compressor	Type		Twin rotary inverter compressor DC	
Fan	Type		Brushless DC motor / BLDC	
	Quantity		1	
Refrigerant	Type/ GWP		R32 / 675	
	Charged (<15m)	kg	1,65	
		TCO <sub>2</sub> eq	1,11	
Pipe connections	Liquid / Gas	mm	Φ9,52 (3/8") / Φ15,9 (5/8")	
	Minimum installation length	m	2	
	Maximum installation length	m	30	
	Additional amount of refrigerant for over 15 linear meters	g/m	38	
Maximum height difference	Outdoor unit above the indoor unit	m	20	
	Outdoor unit below the indoor unit	m	20	
Minimal wire pcs and dimension of cords*		pcs × mm²	3 × 4	
Control cables: indoor unit to outdoor unit		pcs × mm²	2 × 0,75 (shielded cable)	
Bracket spacing		(W×D)	656×456	
Sound pressure level		dB(A)	46	
Sound power level			59	
Net dimensions	(W×D×H)	mm	1118×523×865	
Gross dimensions	(W×D×H)	mm	1180×560×890	
Net weight/Gross weight		kg	75/89	
Operating outdoor temperature	Cooling	°C	-5-43	
	Heating	°C	-25-35	
	DHW	°C	-25-43	

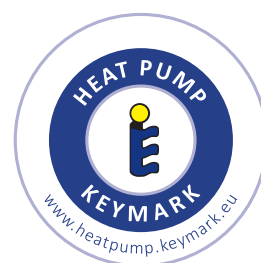
1. Seasonal energy efficiency class measured under average climate conditions

The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than I<sub>Δn</sub>: 30mA








\*The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.

# Aquami All in Split heat pump

AQS80X1o<sup>[R14]</sup> / AQS100T240X13i<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)
							
Integrated DHW tank	Tank of stainless steel	Built-in switching valve					

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) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014.

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# Specification indoor unit

Model				AQ5100T240X13i R14				
EAN code				5905567602153				
Operation modes				Heating and cooling				
Leaving water temperature	Surface cooling		°C	5-25				
	Surface heating		°C	25-65				
	DHW (tank)		°C	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)	38				
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 operating current		A	13.3				
Net dimensions		(W×D×H)	mm	600×600×1943				
Gross dimensions		(W×D×H)	mm	653×653×2160				
Net weight / Gross weight			kg	156/171				
Water circuit	Water connections		inch	R1" external				
	Pressure relief valve		MPa	0.3				
	Condensate drain		mm	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	6			
	Water pump head		m	9				
	Water pump head			DC				
	DHW tank	Tank material		Stainless steel 316L				
		Housing material/colour		Polyurethane foam, steel / white				
		Tank capacity		l	240			
		Maximum water temperature (disinfection mode)		°C	70			
		Insulation thickness		mm	45			
		Maximum pressure		bar	10			
Refrigerant circuit			Liquid / Gas	mm				
Minimal wire pcs and dimension of cords*			pcs × mm²	Φ9,52 (3/8") / Φ15,9 (5/8")				
Control cables: indoor unit to outdoor unit			pcs × mm²	5 × 2,5				
				2 × 0.75 (shielded cable)				

# Specification outdoor unit

Model			AQ580X1o R14	
EAN Code			5905567602061	
Power supply			220-240-50, 1f	
Heating (A7/W35)	Capacity	kW	8,30	
	Rated input	kW	1,60	
	COP		5,20	
Heating (A7/W45)	Capacity	kW	8,20	
	Rated input	kW	2,08	
	COP		3,95	
Heating (A7/W55)	Capacity	kW	7,50	
	Rated input	kW	2,36	
	COP		3,18	
Cooling (A35/W18)	Capacity	kW	8,40	
	Rated input	kW	1,66	
	EER		5,05	
Cooling (A35/W7)	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	
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B20	
Compressor	Type		Twin rotary inverter compressor DC	
Fan	Type		Brushless DC motor / BLDC	
	Quantity		1	
Refrigerant	Type/ GWP		R32 / 675	
	Charged (<15m)	kg	1,65	
		TCO <sub>2</sub> eq	1,11	
Pipe connections	Liquid / Gas	mm	Φ9,52 (3/8") / Φ15,9 (5/8")	
	Minimum installation length	m	2	
	Maximum installation length	m	30	
	Additional amount of refrigerant for over 15 linear meters	g/m	38	
Maximum height difference	Outdoor unit above the indoor unit	m	20	
	Outdoor unit below the indoor unit	m	20	
Minimal wire pcs and dimension of cords*		pcs × mm <sup>2</sup>	3 × 4	
Control cables: indoor unit to outdoor unit		pcs × mm <sup>2</sup>	2 × 0,75 (shielded cable)	
Bracket spacing		(W×D)	656×456	
Sound pressure level		dB(A)	46	
Sound power level			59	
Net dimensions	(W×D×H)	mm	1118×523×865	
Gross dimensions	(W×D×H)	mm	1180×560×890	
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

The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than I<sub>Δn</sub>: 30mA  
 \*The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.

Rotensor reserves the right to make changes to its products without prior notice.