

# Aquami Split heat pump AQS160X30 [R14] / AQS160X13i [R14]







### **Device** features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C



Maximum COP 4,50



Operating range down to -25°C



Supply water temperature of 65°C



Integrated USB port for updates



Energy



Smart Grid



Twin rotary compressor



Integrated electric



Outdoor unit drip tray heater



Compressor



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



Integrated temperature



Weather operating modes (climate curve)



2 heating control



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				AQS160X13i R14
EAN Code				5905567602139
Operation modes				Heating and cooling
	Surface cooling		°C	5~25
Leaving water temperature	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)	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		А	13,3
Net dimensions (W×D×H)		(W×D×H)	mm	420 × 270 × 790
Gross dimensions			mm	525 × 360 × 1050
Net weight / Gross weight			kg	39/45
	Water connections		inch	R1" external
	Pressure relief valve		MPa	0,3
	Condensate drain		mm	Ф25
	Expansion tank	Total volume / Actual volume	1	8 / 4,8
Water circuit		Maximum pressure / Initial pressure	MPa	0,3 / 0,1
Water Circuit	PHE / plate heat	Туре		PHE / plate heat exchanger
	exchanger	Minimum flow	l/min	10
	Water pump head		m	9
	Water pump type			DC
Refrigerant circuit	Refrigerant circuit Liquid / Gas		mm	Φ9,52 (3/8") / Φ15,9 (5/8")
Minimal wire pcs and	d dimension of cords	*	pcs × mm²	5×2,5
Control cables: indo	Control cables: indoor unit to outdoor unit pcs ×			$2 \times 0.75$ (shielded cable)

## **Specification** outdoor unit

Model			AQS160X3o R14
EAN Code			5905567602108
Power supply			380-420~50, 3f
	Capacity	kW	16,00
Heating	Rated input	kW	3,56
(A7/W35)	COP		4.50
	Capacity	kW	16,00
Heating (A7/W45)	Rated input	kW	4,44
	COP		3,60
Heating (A7/W55)	Capacity	kW	16,00
	Rated input	kW	5,52
	COP		2,90
Cooling (A35/W18) Cooling (A35/W7)	Capacity	kW	14,90
	Rated input	kW	438
	EER	***	3,40
	Capacity	kW	14,00
	Rated input	kW	5,71
	EER	NVV.	2,45
	SCOP <sup>(1)</sup>		4,62
Seasonal energy efficiency LWT 35°C	Rated heat output	kW	4,62 15,2
		96	13,2
	Seasonal energy efficiency ratio (ηS)  Annual energy consumption	kWh	6804
		KVVII	
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A+++
	SCOP <sup>(1)</sup>	1147	3,41
Seasonal energy	Rated heat output	kW	13
efficiency LWT 55°C	Seasonal energy efficiency ratio (ηS)	96	133,2
LWI 55°C	Annual energy consumption	kWh	7896
	Seasonal space heating energy efficiency class (1)		A++
SEER	LWT at 7ºC		4,67
	LWT at 8ºC	A	6,71
	imum rated current of the overcurrent circuit breaker with breaker type		B16
Compressor	Туре		Twin rotary inverter compressor DC
Fan	Туре		Brushless DC motor / BLDC
	Quantity		1
	Type/ GWP		R32/675
Refrigerant	Charged (<15m)	kg	1,84
		TCO <sub>2</sub> eq	1,24
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	Outdoor unit above the indoor unit	m	20
difference	Outdoor unit below the indoor unit	m	20
	d dimension of cords*	pcs × mm²	5×2,5
Control cables: indo	ntrol cables: indoor unit to outdoor unit		$2 \times 0.75$ (shielded cable)
Bracket spacing		(W×D)	656×456
Sound pressure leve	el	dB(A)	55
Sound power level		dB(A)	68
Net dimensions	(W×D×H)	mm	1118×523×865
Gross dimensions	(W×D×H)	mm	1180×560×890
Net weight/Gross w		kg	112/125,5
	Cooling	°C	-5-43
Operating outdoor	Heating	oC	-25-35
temperature	DHW	°C	-25-43
1. Seasonal energy eff	ficiency class measured under average climate conditions.		

Notes:

DHW – Domestic hot water

LWT – Leaving water temperature

The 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; A7W45, 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 20702: 2014.



# **Aquami All in Split heat pump**

AQS160X30 [R14] / AQS160T240X13i [R14]















#### **Device** features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C



Maximum COP 4,50



Operating range down to -25°C



Supply water temperature of 65°C



Integrated USB port for updates



Energy



Smart Grid



Twin rotary



Integrated electric



Outdoor unit drip tray heater



Compressor



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



Integrated temperature



Weather operating modes (climate curve)



2 heating control



Dedicated application



Disinfection



DHW circulation pump operation schedules



Maximum leaving water temperature of 60°C (in DHW mode)



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 humidit 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.



# **Specification** indoor unit

Model			AQS160T240X13i R14
			5905567602160
			Heating and cooling
Surface cooling		°C	5~25
Surface heating		°C	25-65
temperature DHW (tank)		°C	30-60
		V-Hz, Ø	220-240~50, 1f / 380-420~50, 3f
Rated input / Operating current			9095 / 13,5
Sound power level			42
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 cu	urrent	A	13,3
Net dimensions (W		mm	600×600×1943
Gross dimensions (W×D×H)		mm	653×653×2160
Net weight / Gross weight		kg	158/173
Water connections		inch	R1" external
Pressure relief valve		MPa	0,3
Condensate drain		mm	Ф25
Expansion tank	Total volume / Actual volume	ı	8/4,8
	Maximum pressure / Initial pressure	MPa	0,3 / 0,1
PHE / plate heat	Туре		PHE / plate heat exchanger
exchanger	Minimum flow	l/min	10
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	1	240
	Maximum water temperature (disinfection mode)	°C	70
	Insulation thickness	mm	45
	Maximum pressure	bar	10
Liquid / Gas		mm	Φ9,52 (3/8") / Φ15,9 (5/8")
Refrigerant circuit Liquid / Gas Minimal wire pcs and dimension of cords*			5×2,5
Control cables: indoor unit to outdoor unit		pcs × mm²	2 × 0,75 (shielded cable)
	Surface heating DHW (tank)  gourrent  Power supply Number of heating sta Maximum operating of  Maximum operating of  Water connections Pressure relief valve Condensate drain  Expansion tank  PHE / plate heat exchanger Water pump head  Water pump head  DHW tank  Liquid / Gas imension of cords*	Surface heating DHW (tank)  gourrent  Power supply Number of heating stages / Power Maximum operating current  (W-D×H) (W-D×H)  Water connections Pressure relief valve Condensate drain  Expansion tank Expansion tank  Expansion tank  Total volume / Actual volume Maximum pressure / Initial pressure PHE / plate heat exchanger Water pump head  Water pump head  Water pump head  Tank material Housing material/colour Tank capacity Maximum water temperature (disinfection mode) Insulation thickness Maximum pressure  Liquid / Gas imension of cords*	Surface heating   Power   Power supply   Power su

# **Specification** outdoor unit

Model			AQS160X3o R14
EAN Code			5905567602108
Power supply			380-420-50, 3f
· over supply	Capacity	kW	16,00
Heating (A7/W35)	Rated input	kW	3,56
	COP	KVV	4.50
		kW	
Heating (A7/W45)	Capacity		16,00
	Rated input	kW	4,44
	COP		3,60
Heating (A7/W55)	Capacity	kW	16,00
	Rated input	kW	5,52
	COP		2,90
Cooling (A35/W18) Cooling (A35/W7)	Capacity	kW	14,90
	Rated input	kW	4,38
	EER		3.40
	Capacity	kW	14,00
	Rated input	kW	5,71
	EER		2.45
	SCOP®		4,62
Seasonal energy efficiency LWT 35°C		kW	
	Rated heat output		15,2
	Seasonal energy efficiency ratio (ηS)	%	181,7
	Annual energy consumption	kWh	6804
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A+++
	SCOP <sup>(1)</sup>		3,41
Seasonal energy	Rated heat output	kW	13
efficiency	Seasonal energy efficiency ratio (ηS)	96	133,2
LWT 55°C	Annual energy consumption	kWh	7896
	Seasonal space heating energy efficiency class (1)		A++
	LWT at 7°C		4.67
SEER	LWT at 8°C		6.71
Minimum rated cur	rrent of the overcurrent circuit breaker with breaker type	A	B16
Compressor	Туре		Twin rotary inverter compressor DC
Compressor	Туре		Brushless DC motor / BLDC
Fan			
	Quantity		1
Refrigerant	Type/ GWP		R32 / 675
	Charged (<15m)	kg	1,84
		TCO₂eq	1,24
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 an	nd dimension of cords*	pcs × mm²	5×2,5
Control cables: indoor unit to outdoor unit		pcs × mm²	2 × 0,75 (shielded cable)
Control cables: indo		-	656x456
	oor unit to outdoor unit	(W×D)	030430
Bracket spacing		(W×D)	55
Bracket spacing Sound pressure leve	vel	(W×D) dB(A)	55
Bracket spacing Sound pressure level Sound power level	vel	dB(A)	68
Bracket spacing Sound pressure level Sound power level Net dimensions	rel (W×D×H)	dB(A)	68 1118×523×865
Bracket spacing Sound pressure lew Sound power level Net dimensions Gross dimensions	(W×D×H) (W×D×H)	dB(A) mm mm	68 1118×523×865 1180×560×890
Bracket spacing Sound pressure level Sound power level Net dimensions	(W×D×H) (W×D×H)	dB(A)  mm  mm  kg	68 1118×523×865 1180×560×890 112/125,5
Bracket spacing Sound pressure lew Sound power level Net dimensions Gross dimensions Net weight/Gross w	(W×D×H)   (W×D×H)     (WoDxH)     (Cooline	mm mm kg	68 1118×523×865 118×523×8690 112/1255 -5-43
Bracket spacing Sound pressure lew Sound power level Net dimensions Gross dimensions	(W×D×H)   (W×D×H)     (WoDxH)     (Cooline	dB(A)  mm  mm  kg	68 1118×523×865 1180×560×890 112/125,5

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 Ian: 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.