

Aquami Split heat pump

AQS160X30 [R14] / AQS160X13i [R14]





5-YEAR





Device features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C A++



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 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



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				AQ5160X13i 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			W	9095
Operating current			А	13,5
Sound power level		dB(A)	43	
	Power supply		V-Hz, Ø	220-240~50, 1f / 380-420~50, 3f
Electric heater	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 connections	5	inch	R1" external
	Pressure relief valve		MPa	0,3
Water circuit	Condensate drain		mm	Ф25
	Expansion tank	Total volume / Actual volume	1	8 / 4,8
		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 inverter
Refrigerant circuit	Liquid / Gas		mm	Φ9,52 / Φ15,9
Minimal wire pcs and	d dimension of cords	5*	pcs × mm²	5×2,5
Control cables: indoor unit to outdoor unit pcs × m			pcs × mm²	2 × 0,75 (shielded cable)

Specification outdoor unit

Model			AQS160X3o R14
EAN Code			5905567602108
Power supply			380-420-50, 3f
	Capacity	kW	16,00
Heating (A7/W35)	Rated input	kW	3,56
	COP		4,50
Heating (A7/W45)	Capacity	kW	16,00
	Rated input	kW	4,44
(A77V43)	COP		3,60
	Capacity	kW	16,00
Heating (A7/W55)	Rated input	kW	5,52
(A//W33)	COP		2,90
	Capacity	kW	14,90
Cooling	Rated input	kW	4,38
(A35/W18)	EER		3,40
	Capacity	kW	14,00
Cooling	Rated input	kW	5,71
(A35/W7)	EER		2,45
	SCOP ^(t)		4,62
Seasonal energy efficiency	Rated heat output	kW	15,2
	Seasonal energy efficiency ratio (ηS)	96	181,7
LWT 35°C	Annual energy consumption	kWh	6804
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++
	SCOP ^(f)		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		467
SEER	LWT at 8°C		6,71
Minimum rated curr	rent of the overcurrent circuit breaker with breaker type	A	B16
Compressor			Twin rotary inverter compressor DC
Compressor	Туре		Brushless DC motor / BLDC
Fan	Quantity		1
	Type/ GWP		R32 / 675
Refrigerant		kg	1,84
nen gerane	Charged (<15m)	TCO,eq	124
	Liquid / Gas	mm	Φ9,52 (3/8") / Φ15,9 (5/8")
	Minimum installation length	m	عبار مردان) به المار مردان) 2
Pipe connections	Maximum installation length	m	30
	Additional amount of refrigerant for over 15 linear meters	g/m	38
	Outdoor unit above the indoor unit	m m	20
Maximum height difference	Outdoor unit below the indoor unit	m	20
	nd dimension of cords*	pcs × mm²	5×2,5
	por unit to outdoor unit	pcs × mm²	
	oor unit to outdoor unit		2 × 0,75 (shielded cable)
Bracket spacing	nl	(W×D) dB(A)	656×456 55
Sound pressure level	Sound pressure level		55
Net dimensions	(W×D×H)	dB(A)	
		mm	1118×523×865
Gross dimensions (W×D×H)		mm kg	1180×560×890
	t weight/Gross weight		112/125,5
			5 10
	Cooling	°C	-5-43
Net weight/Gross we			-5-43 -25-35 -25-43

 $^{1. \, {\}sf Seasonal \, energy \, efficiency \, class \, measured \, under \, average \, climate \, conditions}.$

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, $\Delta T = 5$; A7W45, $\Delta T = 5$; A7W45, $\Delta T = 5$; A7W55 $\Delta T = 8$; 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]





5-YEAR







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



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
EAN code				5905567602160
Operation modes				Heating and cooling
	Surface cooling	Surface cooling		5~25
Leaving water	Surface heating		°C	25-65
temperature	DHW (tank)		°C	30~60
Power supply			V-Hz, Ø	220-240-50, 1f / 380-420-50, 3f
Rated input / Operati	ing current		W/A	9095 / 13,5
Sound power level			dB(A)	42
Power supply			V-Hz, Ø	220-240-50, 1f / 380-420-50, 3f
Electric heater	Number of heating sta	Number of heating stages / Power		3 / 9 (3+3+3)
	Maximum operating o	urrent	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	158/173
	Water connections		inch	R1* external
	Pressure relief valve	Pressure relief valve		0,3
	Condensate drain		mm	Φ25
	Evenesies tank	Total volume / Actual volume	1	8 / 4,8
	Expansion tank	Maximum pressure / Initial pressure	MPa	0,3 / 0,1
	PHE / plate heat	Type		PHE / plate heat exchanger
	exchanger	Minimum flow	l/min	10
Water circuit	Water pump head	Water pump head		9
	Water pump head			DC
		Tank material		Stainless steel 316L
		Housing material/colour		Polyurethane foam, steel / white
		Tank capacity	I	240
	DHW tank	Maximum water temperature (disinfection mode)	°C	70
		Insulation thickness	mm	45
		Maximum pressure	bar	10
Refrigerant circuit	Liquid / Gas		mm	Φ9.52 (3/8") / Φ15,9 (5/8")
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			AQS160X3o R14
EAN Code			5905567602108
Power supply			380.420-50.3f
Tower supply	Capacity	kW	16,00
Heating (A7/W35)	Rated input	kW	3,56
	COP	KVV	4,50
	1.1	LAAF	
Heating	Capacity	kW	16,00
(A7/W45)	Rated input	kW	4,44
	COP		3,60
Heating	Capacity	kW	16,00
(A7/W55)	Rated input	kW	5,52
	COP		2,90
Cooling	Capacity	kW	14,90
(A35/W18)	Rated input	kW	4,38
(103/1110)	EER		3,40
	Capacity	kW	14,00
Cooling	Rated input	kW	5,71
(A35/W7)	EER		2,45
Seasonal energy efficiency LWT 35°C	SCOP ⁽¹⁾		4,62
	Rated heat output	kW	15,2
	Seasonal energy efficiency ratio (ηS)	96	181,7
	Annual energy consumption	kWh	6804
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++
	SCOP(1)		3,41
	Rated heat output	kW	13
Seasonal energy			
efficiency LWT 55°C	Seasonal energy efficiency ratio (ηS)	96	133,2
LWI 33°C	Annual energy consumption	kWh	7896
	Seasonal space heating energy efficiency class (1)		A++
SEER	LWT at 7°C		4,67
	LWT at 8°C		6,71
	rrent of the overcurrent circuit breaker with breaker type	A	B16
Compressor	Туре		Twin rotary inverter compressor DC
Fan	Туре		Brushless DC motor / BLDC
rdii	Quantity		1
	Type/ GWP		R32 / 675
Refrigerant		kg	1,84
-	Charged (<15m)	TCO ₂ eq	1,24
	Liquid / Gas	mm	Φ9,52 (3/8") / Φ15,9 (5/8")
	Minimum installation length	m	2
Pipe connections	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
		pcs × mm²	5×2,5
finimal wire pcs and dimension of cords*		pcs × mm²	2 × 0,75 (shielded cable)
Control cables ind-	Control cables: indoor unit to outdoor unit		2 × 0,75 (snieloed cable) 656×456
	por unit to outdoor unit	(MD)	
Bracket spacing		(W×D)	
Bracket spacing Sound pressure leve		(W×D) dB(A)	55
Bracket spacing Sound pressure level Sound power level	vel	dB(A)	55 68
Bracket spacing Sound pressure level Sound power level Net dimensions	rel (W×D×H)	dB(A)	55 68 1118×523×865
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions	(W-D>H) (W-D>H)	dB(A) mm mm	55 68 1118×523×865 1180×560×890
Bracket spacing Sound pressure level Sound power level Net dimensions	vel (W>Dx+t) (W>Dx+t) (W>Dx+t) weight	dB(A) mm mm kg	55 68 1118×523×865 1180×560×890 112/125,5
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight/Gross with	(W-D>H) (W-D>H)	mm mm kg	55 68 1118×523-865 1180×560×890 112/125,5 -5~43
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions	vel (W>Dx+t) (W>Dx+t) (W>Dx+t) weight	dB(A) mm mm kg	55 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.