

Aquami Split heat pump AQS120X30^[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



Maximum COP 4,95



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)



Prepared to create a cascade system



Modbus Protocol



Specification indoor unit

Model				AQ\$160X13I R14
EAN Code				5905567602139
Operation modes				Heating and cooling
	Surface cooling	Surface cooling		5~25
Leaving water	Surface heating	Surface heating		25-65
temperature	DHW (tank)	DHW (tank)		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	Power supply		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)		(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	Water connections		R1* external
Water circuit	Pressure relief valv	Pressure relief valve		0,3
	Condensate drain		mm	Φ25
	Expansion tank	Total volume / Actual volume	I.	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 type			DC inverter
Refrigerant circuit Liquid / Gas			mm	Φ9,52 / Φ15,9
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			AQS120X3o R14
EAN Code			5905567602085
Power supply			380-420~50, 3f
	Capacity	kW	12,10
Heating	Rated input	kW	2,44
(A7/W35)	COP		4,95
	Capacity	kW	12,30
Heating	Rated input	kW	3,24
(A//W45)	COP		3,80
	Capacity	kW	12,00
Heating	Rated input	kW	3.87
I (A//W55) ⊢	COP		3,10
	Capacity	kW	12,00
Cooling	Rated input	kW	3.00
(A35/W18)	EER		4,00
	Capacity	kW	11,60
Cooling	Rated input	kW	4,22
(A35/W/)	EER	NVV	2,75
	SCOP(I)		4,81
-	Rated heat output	kW	4,81
		96	189.4
	Seasonal energy efficiency ratio (ηS) Annual energy consumption	kWh	5152
_		KVVII	
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++
-	SCOP(1)		3,45
	Rated heat output	kW	11,6
-	Seasonal energy efficiency ratio (ηS)	96	135,1
L	Annual energy consumption	kWh	6927
	Seasonal space heating energy efficiency class (1)		A++
	LWT at 7°C		4,86
	LWT at 8°C		7,04
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B16
			Twin rotary inverter compressor DC
Fan 🛏	Туре		Brushless DC motor / BLDC
	Quantity		1
_	Type/ GWP		R32 / 675
Refrigerant	Charged (<15m)	kg	1,84
		TCO ₂ eq	1,24
-	Liquid / Gas	mm	Φ9,52 (3/8") / Φ15,9 (5/8")
Pine connections -	Minimum installation length	m	2
	Maximum installation length	m	30
	Additional amount of refrigerant for over 15 linear meters	g/m	38
	Outdoor unit above the indoor unit	m	20
difference	Outdoor unit below the indoor unit	m	20
Minimal wire pcs and	nimal wire pcs and dimension of cords*		5×2,5
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)	50
Sound power level		dB(A)	64
Net dimensions	ons (W×D×H)		1118×523×865
Fross dimensions (W×D×H)		mm	1180×560×890
Net weight/Gross weight		kg	112/125,5
	Cooling	°C	-5-43
		0.0	-25~35
Operating outdoor	Heating	°C	-23-33
Operating outdoor temperature	Heating	°C	-25-43

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

AQS120X30 [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 4,95



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



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Maximum installation length up to 30m



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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
EAN code				5905567602160
Operation modes				Heating and cooling
	Surface cooling		°C	5-25
Leaving water temperature	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 / Operatin	ig 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	iges / Power	pcs. / kW	3 / 9 (3+3+3)
	Maximum operating co	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		MPa	0,3
	Condensate drain		mm	Ф25
	Expansion tank	Total volume / Actual volume	1	8 / 4,8
		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		m	9
	Water pump head			DC
	DHW tank	Tank material		Stainless steel 316L
		Housing material/colour		Polyurethane foam, steel / white
		Tank capacity	T.	240
		Maximum water temperature (disinfection mode)	°C	70
		Insulation thickness	mm	45
		Maximum pressure	bar	10
Refrigerant circuit	gerant circuit Liquid / Gas		mm	Φ9,52 (3/8") / Φ15,9 (5/8")
Minimal wire pcs and	Minimal wire pcs and dimension of cords*			5×2,5
Control cables: indoor	Control cables: indoor unit to outdoor unit		pcs × mm²	2 × 0,75 (shielded cable)

Specification outdoor unit

Model			AQS120X30 R14
EAN Code			5905567602085
Power supply			380-420-50, 3f
топст заррту	Capacity	kW	12.10
Heating (A7/W35)	Rated input	kW	2,44
	COP	NII .	4,95
	Capacity	kW	12,30
Heating	Rated input	kW	3,24
(A7/W45)	COP	NII .	3.80
	Capacity	kW	12,00
Heating	Rated input	kW	3.87
(A7/W55)	COP	KVV	3,10
	Capacity	kW	12,00
Cooling	Rated input	kW	3,00
(A35/W18)	EER	KVV	4,00
	Capacity	kW	4,00 11,60
Cooling		kW	
(A35/W7)	Rated input EER	KVV	4,22
			2,75
	SCOP(1)		4,81
Seasonal energy	Rated heat output	kW	12
efficiency LWT 35°C	Seasonal energy efficiency ratio (ηS)	96	189,4
LW1 35°C	Annual energy consumption	kWh	5152
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++
	SCOP ⁽¹⁾		3,45
Seasonal energy	Rated heat output	kW	11,6
efficiency	Seasonal energy efficiency ratio (ηS)	96	135,1
LWT 55°C	Annual energy consumption	kWh	6927
	Seasonal space heating energy efficiency class (1)		A++
SEER	LWT at 7°C		4,86
	LWT at 8°C		7,04
Minimum rated curr	rent of the overcurrent circuit breaker with breaker type	A	B16
Compressor	ssor Type		Twin rotary inverter compressor DC
Fan	Туре		Brushless DC motor / BLDC
I di i	Quantity		1
	Type/ GWP		R32 / 675
Refrigerant	Charged (<15m)	kg	1,84
	Charged (<1311)	TCO₂eq	1,24
	Liquid / Gas	mm	Φ9,52 (3/8") / Φ15,9 (5/8")
Dina connections	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
Minimal wire pcs and	Minimal wire pcs and dimension of cords*		5×2,5
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)	50
Sound power level			64
	(W×D×H)	mm	1118×523×865
Net dimensions			1180×560×890
	(W×D×H)	mm	
Net dimensions Gross dimensions	(W×D×H)		
Net dimensions Gross dimensions Net weight/Gross we	(WxDxH)	mm kg °C	112/1255 -5-43
Net dimensions Gross dimensions	(W×D×H)	kg	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.