# Aquami All in Split heat pump

AQS120X30<sup>[R14]</sup> / AQS160T240X13i<sup>[R14]</sup>



# **Device** features

**1** 

Efficient

heating

Smart Grid

functionality

\* ↓ 30m

Maximum



Environmentally friendly refrigerant R32



Energy meter



Compact indoor split unit housing



Multilanguage menu



Integrated DHW tank

installation length up to 30m



Weather operating Integrated temperature modes (climate curve) sensor



Tank of stainless steel



 $\Delta_{c}^{s}$ 

Energy efficiency

class at 35°C

A+++

Twin rotary

compressor

Į)

Silent

mode

Built-in switching

valve

Energy efficiency class at 55°C A++



Integrated electric heater

ッ

٩



COP

4,95

Maximum

COP 4,95

⋞⋑



Built-in Wi-Fi module



2 heating control zones

ß

Dedicated application





Disinfection







water temperature of 60°C (in DHW mode)

pump operation

Maximum leaving

Ő Easy installation

and maintenance











Supply water temperature of 65°C

▲ 65°C

M





Ŷ

Integrated USB

port for updates



**ZOTENS**  $\sigma^{\mathbb{R}}$ 











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 8%. 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.





mode



60°C 0 0





drip tray

\*\*







Daily operation schedule

Configurable weekly schedules

.....

WIE

-25°C

Operating range

down to -25°C

Ċ

Compressor

crankcase heater





schedules

#### **COTENS**σ<sup>®</sup>

# Specification indoor unit

Model			AQ\$160T240X13i R14		
EAN code				5905567602160	
Operation modes			Heating and cooling		
	Surface cooling		°C	5-25	
EAN code Operation modes Leaving water temperature Power supply Rated input / Operating c Sound power level Electric heater Net dimensions	Surface heating	Surface heating		25-65	
temperature	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)	42		
Journa power rever	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 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 w	eight		kg	158/173	
	Water connections		inch	R1* external	
	Pressure relief valve	Pressure relief valve		0,3	
	Condensate drain	Condensate drain		Φ25	
	Eveneries task	Total volume / Actual volume	I	8 / 4,8	
	Expansion tank	Maximum pressure / Initial pressure	MPa	0,3 / 0,1	
	PHE / plate heat	Туре		PHE / plate heat exchanger	
	DHW (tank)  ting current  Power supply Number of heating stages / Pc Maximum operating current  (V  veight  Water connections  Pressure relief valve Condensate drain  Expansion tank  PHE / plate heat TT Expansion tank  Water pump head  Vater pump head  Tt Tt DHW tank  M	Minimum flow	l/min	10	
Water circuit	Water pump head		m	9	
	Water pump head	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 × mm <sup>2</sup>	5×2,5		
Control cables: indoo	r unit to outdoor unit		pcs × mm <sup>2</sup>	$2 \times 0.75$ (shielded cable)	

# Specification outdoor unit

Model EAN Code			AQS120X30 R14
			5905567602085
Power supply			
	Capacity	kW	12.10
Heating			2,44
(A//W35)			4,95
		WW.	12,30
Heating			3,24
(A//W45)		NVV.	3,24
		1447	3,00
			3,87
(A7/W55)	(W×D)           (W×D×H)           (W×D×H)           (W×D×H)           ght           kg           Cooling         °C		
			3,10
Cooling			12,00
(A35/W18)		kW	3,00
			4,00
Cooling			11,60
(A35/W7)		kW	4,22
			2,75
_	SCOP®		4,81
Seasonal energy	Rated heat output		12
	Seasonal energy efficiency ratio (ηS)	96	189,4
LWT 35°C	Annual energy consumption	kWh	5152
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A+++
	SCOP®		3,45
Seasonal energy	Rated heat output	kW	11,6
	Seasonal energy efficiency ratio (ηS)	96	135,1
	Annual energy consumption	kWh	6927
	km         km           op         km           apacity         km           apacity         km           OP         km           OP         km           apacity         km           apacity         km           apacity         km           apacity         km           ated input         km           apacity         km           ated input         km           ER         km           COP*         km           ated input         km           ated ateal output         km           cop************************************	A++	
			4,86
SEER	LWT at 8°C		7,04
Minimum rated curre	ent of the overcurrent circuit breaker with breaker type	A	816
			Twin rotary inverter compressor DC
			Brushless DC mator / BLDC
Fan F			1
			R32/675
Refrigerant	iyo om	ka	1.84
Reingerand	Charged (<15m)		1,24
	Liquid / Car		φ9,52 (3/8") / Φ15,9 (5/8")
-			φ.,
Pipe connections –	-		30
			30
			38 20
			20
			5×2,5
	s: indoor unit to outdoor unit		2 × 0,75 (shielded cable)
Bracket spacing			656×456
Sound pressure level			50
Sound power level			64
			1118×523×865
			1180×560×890
	ight	kg	112/125,5
Gross dimensions Net weight/Gross weig	-0· ··		
Net weight/Gross weig		٥C	-5~43
Net weight/Gross weig		°C ℃	-5-43 -25-35

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 Idn: 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

AQS140X30<sup>[R14]</sup> / AQS160T240X13i<sup>[R14]</sup>



# **Device** features

**1** 

Efficient

heating

Smart Grid

functionality



Environmentally friendly refrigerant R32



Energy meter





Compact indoor split unit housing



Multilanguage menu



Integrated DHW tank

installation length up to 30m

Integrated



316L

Tank of stainless

steel

Built-in switching



 $\Delta_{c}^{s}$ 

Energy efficiency

class at 35°C

A+++

Twin rotary

compressor

Į)

Silent

mode

valve



zones



Energy efficiency class at 55°C A++



Integrated electric heater



⋞⋑

COP

4,70

Maximum

COP 4,70

crankcase heater



Daily operation schedule



Dedicated application







+



pump operation

schedules

water temperature of 60°C (in DHW mode)

Ŷ Integrated USB port for updates

**ZOTENS**  $\sigma^{\mathbb{R}}$ 

▲ 65°C

M

Supply water

temperature

of 65°C

Indoor unit

drip tray

Ő

Easy installation and maintenance

EN









module D

ッ

٩

Built-in Wi-Fi

) — O

MON









Maximum leaving







ø

WIE

-25°C

Operating range

down to -25°C

Ċ

Compressor

.....



mode





\*\* AV Vacation





#### **COTENS**σ<sup>®</sup>

# Specification indoor unit

Model				AQ\$160T240X13i R14		
EAN code				5905567602160		
Operation modes				Heating and cooling		
	Surface cooling	Surface cooling		5~25		
Rated input / Operating	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 / Operating 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 stages / Power		pcs. / kW	3 / 9 (3+3+3)		
	Maximum operating cu	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 wei	ght		kg	158/173		
	Water connections		inch	R1* external		
	Pressure relief valve	Pressure relief valve		0,3		
	Condensate drain		mm	Φ25		
	Expansion tank	Total volume / Actual volume	I	8 / 4,8		
	скранзіонталік	Maximum pressure / Initial pressure	MPa	0,3 / 0,1		
	PHE / plate heat	Туре		PHE / plate heat exchanger		
	exchanger	Minimum flow	l/min	10		
Water circuit	Water pump head		m	9		
	Water pump head	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 × mm <sup>2</sup>	5×2,5			
Control cables: indoor	unit to outdoor unit		pcs × mm <sup>2</sup>	$2 \times 0.75$ (shielded cable)		

# Specification outdoor unit

Model			AQ\$140X3o R14
EAN Code			5905567602092
Power supply			380-420-50, 3f
Tower supply	Capacity	LAW.	14,50
Heating			3,09
(A7/W35)		KVV	4,70
		1447	4,70
Heating			3.89
(A7/W45)		KVV	
			3.65
Heating			13,80
(A7/W55)		KVV	4,60
			3,00
Cooling			13,50
(A35/W18)		kW	3,75
			3,60
Cooling			12,70
(A35/W7)		kW	4,98
			2,55
	SCOP <sup>(1)</sup>		4,72
Seasonal energy	Rated heat output	kW	13,7
efficiency	Seasonal energy efficiency ratio (ηS)	96	185,7
LWT 35°C	Annual energy consumption	kWh	6012
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A+++
	SCOP <sup>(1)</sup>		3,47
Seasonal energy	Rated heat output	kW	12,1
efficiency LWT 55°C	Seasonal energy efficiency ratio (ŋS)	96	135,6
	Annual energy consumption	kWh	7202
	Rated heat output     IW       Seasonal energy efficiency ratio (ŋS)     %       Annual energy consumption     KWh       Seasonal space heating energy efficiency class <sup>(1)</sup> SCOP''     KWh       Rated heat output     KW       Seasonal space heating energy efficiency class <sup>(1)</sup> KWh       Seasonal space heating energy efficiency class <sup>(1)</sup> M       Type     Mainture     Kg       Quantty     TrO_eq     Kg       Charged (<15m)	A++	
	LWT at 7°C		4.83
SEER	LWT at 8°C		6,85
Minimum rated curr	ent of the overcurrent circuit breaker with breaker type	A	816
Compressor	Туре		Twin rotary inverter compressor DC
	Туре		Brushless DC motor / BLDC
Fan	Quantity		1
	Type/ GWP		R32 / 675
Refrigerant		kg	1.84
-	Charged (<15m)		1.24
	Liquid / Gas		Φ9,52 (3/8") / Φ15,9 (5/8")
			2
Pipe connections		m	30
			38
Maximum height			20
difference			20
	1		5×25
	vire pcs and dimension of cords* ables: indoor unit to outdoor unit		2 × 0.75 (shielded cable)
Bracket spacing			2.0504556
Sound pressure leve			51
Sound pressure level		0.000 9	65
Net dimensions	(M/xDxH)	mm	1118×523×865
Gross dimensions			1180×560×690
Net weight/Gross we			112/125,5
Operating outdoor	Cooling	°C	-5-43
temperature	Heating	°C	-25-35
	DHW	٥C	-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 Idn: 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.



# **Device** features

tl<sup>1</sup>

Efficient

heating

Smart Grid

functionality

\* ↓ 30m

Maximum



Environmentally friendly refrigerant R32



Energy meter



Compact indoor split unit housing



Multilanguage menu



Integrated DHW tank

installation length up to 30m



Weather operating temperature modes (climate curve) sensor



Tank of stainless steel



 $\Delta_{c}^{s}$ 

Energy efficiency

class at 35°C

A+++

Twin rotary

compressor

Į)

Silent

mode

Built-in switching

valve

Energy efficiency class at 55°C A++



Integrated electric heater



⋞⋑



Built-in Wi-Fi module

ッ

٩



2 heating control zones

ß

application



Disinfection





ß

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

COP 4,50 Maximum COP 4,50

Operating range down to -25°C

Ċ

WIE

-25°C



\*\*

AV

Easy installation and maintenance

Ŷ

EN







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 8%. 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.

Supply water temperature of 65°C

▲ 65°C

M













+



Vacation mode







Compressor crankcase heater

tray heater

) — O MON



weekly schedules





DHW circulation pump operation schedules

Daily operation schedule

#### **COTENS**σ<sup>®</sup>

# Specification indoor unit

Model				AQ\$160T240X13i R14		
EAN code				5905567602160		
Operation modes				Heating and cooling		
	Surface cooling	Surface cooling		5~25		
Rated input / Operating	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 / Operating 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 stages / Power		pcs. / kW	3 / 9 (3+3+3)		
	Maximum operating cu	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 wei	ght		kg	158/173		
	Water connections		inch	R1* external		
	Pressure relief valve	Pressure relief valve		0,3		
	Condensate drain		mm	Φ25		
	Expansion tank	Total volume / Actual volume	I	8 / 4,8		
	скранзіонталік	Maximum pressure / Initial pressure	MPa	0,3 / 0,1		
	PHE / plate heat	Туре		PHE / plate heat exchanger		
	exchanger	Minimum flow	l/min	10		
Water circuit	Water pump head		m	9		
	Water pump head	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 × mm <sup>2</sup>	5×2,5			
Control cables: indoor	unit to outdoor unit		pcs × mm <sup>2</sup>	$2 \times 0.75$ (shielded cable)		

# Specification outdoor unit

Model			AQ5160X3o R14
EAN Code			5905567602108
Power supply			380-420-50, 3f
T	Capacity	kw.	16,00
Heating			3,56
(A//W35)			4,50
		LAM.	**,30
Heating			4,44
		KVV	
		1147	3,60
			16,00
	Type           Type           Quantity           Type/GVP           Charged (<15m)	5,52	
	1		2,90
Cooling			14,90
(A35/W18)		kW	4,38
			3,40
Cooling			14,00
(A35/W7)		kW	5,71
			2,45
	SCOP(1)		4,62
Seasonal energy	Rated heat output	kW	15,2
	Seasonal energy efficiency ratio (ηS)	96	181,7
LWT 35°C	Annual energy consumption	kWh	6804
	Rated input         COP         Capacity         Rated input         EER         Capacity         Rated near output         Seasonal energy efficiency ratio (nS)         Annual energy consumption         Seasonal space heating energy efficiency class <sup>(1)</sup> VWT at XPC         LWT at XPC         LWT at XPC         Quantity         Type         Quantity         Type (OP)         Quantity         Liquid / Gas         Minimum installation length         Additional amount of refrigerant for over 15 linear meter         Outdoor unit above the indoor unit         Outdoor unit tooutdoor		A+++
	SCOP <sup>(1)</sup>		3,41
Seasonal energy	Rated heat output	kW	13
WT 35°C A ieasonal energy R ifficiency S WT 55°C A iEER L L Minimum rated current	Seasonal energy efficiency ratio (ηS)	96	133,2
		kWh	7896
	Rated input     kW       COP     kW       Capacity     kW       Rated input     kW       COP     kW       Capacity     kW       Rated input     kW       COP     kW       Copacity     kW       Rated input     kW       Copacity     kW       Rated input     kW       EER     Capacity       SCOP*0     kW       EER     SCOP*0       ScOP*0     %       Annual energy consumption     kW       Seasonal space heating energy efficiency class**     %       Seasonal space heating energy efficiency class**     %       Annual energy consumption     kW       Seasonal space heating energy efficiency class **        LWT at 7X°     LWT at 7X°       LWT at 7X°     KW       Quantity     Tope       Type     Geage (<15m)	A++	
			4,67
SEER -			6,71
		A	B16
			Twin rotary inverter compressor DC
			Brushless DC motor / BLDC
	Seasonal energy efficiency ratio (r,S) Annual energy consumption Seasonal space heating energy efficiency class <sup>(1)</sup> Seasonal space heating energy efficiency class <sup>(1)</sup> Seasonal space heating energy efficiency class <sup>(1)</sup> LWT at P°C LWT at P°C LWT at P°C to the overcurrent circuit breaker with breaker type Type Quantity Type/GVP Charged (-15m) Liquid / Gas Minimum installation length Additional amount of refrigerant for over 15 linear meters		
			R32 / 675
Refrigerant	1,00 011	ka	1,84
Reingerant	AWAWacityAWacityKMacityKM<	1,24	
	Liquid / Coc		φ9,52 (3/8") / Φ15,9 (5/8")
-			( ۲۵) جزارت ۲۰۱۹ ( ۲۵) جزارت ۲۰۱۹ ( ۲۵) 2
Pine connections	-		
-	-		30
			38
			20
			20
			5×2,5
	l cables: indoor unit to outdoor unit		2×0,75 (shielded cable)
Bracket spacing			656×456
Sound pressure level	bund pressure level		55
			68
Sound power level	(W×D×H)		1118×523×865
Net dimensions			1180×560×890
Net dimensions		mm	
Net dimensions	(W×D×H)		112/125,5
Net dimensions Gross dimensions Net weight/Gross weig	(W×D×H) ight	kg °C	
Net dimensions Gross dimensions Net weight/Gross weig	(W×D×H) ight	kg	112/125,5

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 Idn: 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.