




































Aquami All in Split heat pump

AQS120X3o^[R14] / AQS160T240X13i^[R14]



Device features

							
Environmentally friendly refrigerant R32	Efficient heating	Energy efficiency class at 35°C A+++	Energy efficiency class at 55°C A++	Maximum COP 4,95	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			AQ5160T240X13i R14		
EAN code			5905567602160		
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)	42		
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		(WxDxH)	600x600x1943		
Gross dimensions		(WxDxH)	653x653x2160		
Net weight / Gross weight		kg	158/173		
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 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	Ø9,52 (3/8") / Ø15,9 (5/8")	
Minimal wire pcs and dimension of cords*		pcs × mm ²		5 × 2,5	
Control cables: indoor unit to outdoor unit		pcs × mm ²		2 × 0,75 (shielded cable)	

Specification outdoor unit

Model			AQ5120X3o R14
EAN Code			5905567602085
Power supply			380-420-50, 3f
Heating (A7/W35)	Capacity	kW	12,10
	Rated input	kW	2,44
	COP		4,95
Heating (A7/W45)	Capacity	kW	12,30
	Rated input	kW	3,24
	COP		3,80
Heating (A7/W55)	Capacity	kW	12,00
	Rated input	kW	3,87
	COP		3,10
Cooling (A35/W18)	Capacity	kW	12,00
	Rated input	kW	3,00
	EER		4,00
Cooling (A35/W7)	Capacity	kW	11,60
	Rated input	kW	4,22
	EER		2,75
Seasonal energy efficiency LWT 35°C	SCOP ⁽¹⁾		4,81
	Rated heat output	kW	12
	Seasonal energy efficiency ratio (η _S)	%	189,4
	Annual energy consumption	kWh	5152
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++
Seasonal energy efficiency LWT 55°C	SCOP ⁽¹⁾		3,45
	Rated heat output	kW	11,6
	Seasonal energy efficiency ratio (η _S)	%	135,1
	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 current of the overcurrent circuit breaker with breaker type		A	B16
Compressor	Type		Twin rotary inverter compressor DC
Fan	Type		Brushless DC motor / BLDC
	Quantity		1
Refrigerant	Type/ GWP		R32 / 675
	Charged (<15m)	kg	1,84
		TCO ₂ eq	
Pipe connections	Liquid / Gas	mm	Ø9,52 (3/8") / Ø15,9 (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 ²	5 × 2,5
Control cables: indoor unit to outdoor unit		pcs × mm ²	2 × 0,75 (shielded cable)
Bracket spacing		(WxD)	656x456
Sound pressure level		dB(A)	50
Sound power level			64
Net dimensions		(WxDxH)	1118x523x865
Gross dimensions		(WxDxH)	1180x560x890
Net weight/Gross weight		kg	112/125,5
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_{Δn}: 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

AQS140X3o^[R14] / AQS160T240X13i^[R14]



Device features

							
Environmentally friendly refrigerant R32	Efficient heating	Energy efficiency class at 35°C A+++	Energy efficiency class at 55°C A++	Maximum COP 4,70	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			AQ5160T240X13i R14		
EAN code			5905567602160		
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)	42		
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		(WxDxH)	600x600x1943		
Gross dimensions		(WxDxH)	653x653x2160		
Net weight / Gross weight		kg	158/173		
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 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	Ø9,52 (3/8") / Ø15,9 (5/8")	
Minimal wire pcs and dimension of cords*		pcs × mm ²	5 × 2,5		
Control cables: indoor unit to outdoor unit		pcs × mm ²	2 × 0,75 (shielded cable)		

Specification outdoor unit

Model			AQ5140X3o R14
EAN Code			5905567602092
Power supply			380-420-50, 3f
Heating (A7/W35)	Capacity	kW	14,50
	Rated input	kW	3,09
	COP		4,70
Heating (A7/W45)	Capacity	kW	14,20
	Rated input	kW	3,89
	COP		3,65
Heating (A7/W55)	Capacity	kW	13,80
	Rated input	kW	4,60
	COP		3,00
Cooling (A35/W18)	Capacity	kW	13,50
	Rated input	kW	3,75
	EER		3,60
Cooling (A35/W7)	Capacity	kW	12,70
	Rated input	kW	4,98
	EER		2,55
Seasonal energy efficiency LWT 35°C	SCOP ⁽¹⁾		4,72
	Rated heat output	kW	13,7
	Seasonal energy efficiency ratio (η _S)	%	185,7
	Annual energy consumption	kWh	6012
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++
Seasonal energy efficiency LWT 55°C	SCOP ⁽¹⁾		3,47
	Rated heat output	kW	12,1
	Seasonal energy efficiency ratio (η _S)	%	135,6
	Annual energy consumption	kWh	7202
	Seasonal space heating energy efficiency class ⁽¹⁾		A++
SEER	LWT at 7°C		4,83
	LWT at 8°C		6,85
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B16
Compressor	Type		Twin rotary inverter compressor DC
Fan	Type		Brushless DC motor / BLDC
	Quantity		1
Refrigerant	Type/ GWP		R32 / 675
	Charged (<15m)	kg	1,84
		TCO ₂ eq	
Pipe connections	Liquid / Gas	mm	Ø9,52 (3/8") / Ø15,9 (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 ²	5 × 2,5
Control cables: indoor unit to outdoor unit		pcs × mm ²	2 × 0,75 (shielded cable)
Bracket spacing		(WxD)	656x456
Sound pressure level		dB(A)	51
Sound power level			65
Net dimensions		(WxDxH)	1118x523x865
Gross dimensions		(WxDxH)	1180x560x890
Net weight/Gross weight		kg	112/125,5
Operating outdoor temperature	Cooling	°C	-5-43
	Heating	°C	-25-35
	DHW	°C	-25-43

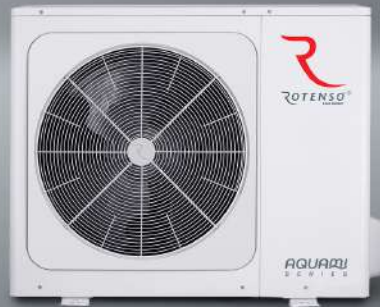
1. Seasonal energy efficiency class measured under average climate conditions

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_n: 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

AQS160X3o^[R14] / AQS160T240X13i^[R14]



Device features

							
Environmentally friendly refrigerant R32	Efficient heating	Energy efficiency class at 35°C A+++	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 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			AQS160T240X13i R14		
EAN code			5905567602160		
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)	42		
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		(WxDxH)	600x600x1943		
Gross dimensions		(WxDxH)	653x653x2160		
Net weight / Gross weight		kg	158/173		
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 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	Ø9,52 (3/8") / Ø15,9 (5/8")	
Minimal wire pcs and dimension of cords*		pcs × mm ²		5 × 2,5	
Control cables: indoor unit to outdoor unit		pcs × mm ²		2 × 0,75 (shielded cable)	

Specification outdoor unit

Model			AQS160X3o R14
EAN Code			5905567602108
Power supply			380-420-50, 3f
Heating (A7/W35)	Capacity	kW	16,00
	Rated input	kW	3,56
	COP		4,50
Heating (A7/W45)	Capacity	kW	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)	Capacity	kW	14,90
	Rated input	kW	4,38
	EER		3,40
Cooling (A35/W7)	Capacity	kW	14,00
	Rated input	kW	5,71
	EER		2,45
Seasonal energy efficiency LWT 35°C	SCOP ⁽¹⁾		4,62
	Rated heat output	kW	15,2
	Seasonal energy efficiency ratio (η _S)	%	181,7
	Annual energy consumption	kWh	6804
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++
Seasonal energy efficiency LWT 55°C	SCOP ⁽¹⁾		3,41
	Rated heat output	kW	13
	Seasonal energy efficiency ratio (η _S)	%	133,2
	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
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B16
Compressor	Type		Twin rotary inverter compressor DC
Fan	Type		Brushless DC motor / BLDC
	Quantity		1
Refrigerant	Type/ GWP		R32 / 675
	Charged (<15m)	kg	1,84
		TCO ₂ eq	
Pipe connections	Liquid / Gas	mm	Ø9,52 (3/8") / Ø15,9 (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 ²	5 × 2,5
Control cables: indoor unit to outdoor unit		pcs × mm ²	2 × 0,75 (shielded cable)
Bracket spacing		(WxD)	656x456
Sound pressure level		dB(A)	55
Sound power level			68
Net dimensions		(WxDxH)	1118x523x865
Gross dimensions		(WxDxH)	1180x560x890
Net weight/Gross weight		kg	112/125,5
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_n: 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.