

# Airmi Split heat pump

AISW40X1o<sup>[R14]</sup> / AIS40X1i<sup>[R14]</sup>



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## Device features

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|--|--------------------------------|--|---|---|---|---------------------------------------|---|
| <br>Environmentally friendly refrigerant R32 | <br>Efficient heating          | <br>Energy efficiency class at 35°C A+++ | <br>Energy efficiency class at 55°C A++ | <br>Maximum COP 4,89  | <br>Operating range down to -25°C       | <br>Supply water temperature of 65°C  | <br>Smart Grid functionality              |
| <br>Twin rotary compressor                   | <br>Integrated electric heater | <br>Outdoor unit drip tray heater        | <br>Compressor crankcase heater         | <br>Indoor unit drip tray                                   | <br>Easy installation and maintenance   | <br>Compact indoor split unit housing | <br>Maximum installation length up to 15m |
| <br>Silent mode                              | <br>Integrated Wi-Fi module    | <br>Daily operation schedule             | <br>Configurable weekly schedules       | <br>Vacation mode   | <br>Menu in English                     | <br>Multilanguage menu                | <br>Integrated temperature sensor         |
| <br>Weather operating modes (climate curve)  | <br>2 heating control zones    | <br>Dedicated application                | <br>Disinfection                        | <br>Maximum leaving water temperature of 60°C (in DHW mode) | <br>Prepared to create a cascade system | <br>Modbus Protocol                   |   |

# Specification indoor unit

Model			AIS40X11 R14		
EAN Code			5905567602825		
Operation modes			Heating and cooling		
Leaving water temperature	Space cooling	°C	7-25		
	Space heating	°C	25-65		
	DHW (tank)	°C	25-60		
Power supply		V-Hz, Ø	220-240-50, 1f		
Rated input		W	3090		
Operating current		A	13,9		
Sound power level		dB	42		
Electric heater	Power supply	V-Hz, Ø	220-240-50, 1f		
	Number of heating stages	pcs	1		
	Power	kW	3		
	Maximum operating current	A	13,6		
Net dimensions		(W x D x H)	mm		
Gross dimensions		(W x D x H)	mm		
Net weight / Gross weight			kg		
Water circuit	Water connections		mm (inch)	Ø33 (1,30)	
	Pressure relief valve		MPa	0,3	
	Condensate drain		mm	Ø12,7	
	Expansion tank	Total volume	l	5	
		Actual volume	l	2	
		Maximum pressure	MPa	0,5	
		Initial pressure	MPa	0,15	
	Heat exchanger	Type		PHE / plate heat exchanger	
		Minimum flow	l/min	10	
	Water pump head		m	9	
Water pump type			DC inverter		
Refrigerant circuit		Liquid / Gas	mm	Ø6,35 / Ø15,88	
Minimal wire pcs and dimension of cords*			pcs × mm <sup>2</sup>	3 × 2,5	
Control cables: indoor unit to outdoor unit			pcs × mm <sup>2</sup>	2 × 0,75 (shielded cable)	

# Specification outdoor unit

Model			AISW40X10 R14	
EAN Code			5905567602610	
Power supply		V-Hz, Ø	220-240-50, 1f	
Heating (A7/W35)	Capacity	kW	4,20	
	Rated input	kW	0,86	
	COP		4,89	
Heating (A7/W45)	Capacity	kW	4,10	
	Rated input	kW	1,18	
	COP		3,47	
Heating (A7/W55)	Capacity	kW	4,00	
	Rated input	kW	1,65	
	COP		2,42	
Cooling (A35/W18)	Capacity	kW	4,20	
	Rated input	kW	0,78	
	EER		5,41	
Cooling (A35/W7)	Capacity	kW	4,20	
	Rated input	kW	1,35	
	EER		3,12	
Seasonal energy efficiency LWT at 35°C	SCOP <sup>(1)</sup>		4,88	
	Rated heat output	kW	4,0	
	Seasonal energy efficiency ratio (η <sub>s</sub> )	%	192	
	Annual energy consumption	kWh	1693	
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A+++	
Seasonal energy efficiency LWT at 55°C	SCOP <sup>(1)</sup>		3,40	
	Rated heat output	kW	4,4	
	Seasonal energy efficiency ratio (η <sub>s</sub> )	%	133	
	Annual energy consumption	kWh	3038	
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A++	
SEER	LWT at 7°C		5,33	
	LWT at 18°C		8,29	
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	
Refrigerant		Quantity	1	
		Type	R32	
		GWP	675	
Pipe connections		Quantity	kg	1,40
			TCO <sub>eq</sub>	0,945
		Liquid / Gas	mm	Ø6,35 / Ø15,88
Maximum height difference		Minimum installation length	m	3
		Maximum installation length	m	15
		Additional amount of refrigerant for over 7,5 linear meters	g/m	20
Maximum height difference		Outdoor unit above the indoor unit	m	8
		Outdoor unit below the indoor unit	m	8
Minimal wire pcs and dimension of cords*			pcs × mm <sup>2</sup>	3 × 2,5
Control cables: indoor unit to outdoor unit			pcs × mm <sup>2</sup>	2 × 0,75 (shielded)
Bracket spacing		(W1 × D)	mm	624 × 425
Sound pressure level			dB(A)	44
Sound power level			dB(A)	56
Net dimensions		(W x D x H)	mm	971 × 425 × 703
Gross dimensions		(W x D x H)	mm	1025 × 425 × 865
Net weight / Gross weight			kg	56 / 67
Operating outdoor temperature	Cooling/ Heating	°C	-5-43 / -25-35	
	DHW	°C	-25-43	

(1) Seasonal energy efficiency class measured under average climate conditions.

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.

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<sub>Δn</sub>: 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.