

# Airmi Split heat pump
































AISG100X1o<sup>[R14]</sup> / AIS100X13i<sup>[R14]</sup>



- COP 4,61**
- R32 REFRIGERANT**  
Environmentally friendly
- 65°C**
- 5-YEAR WARRANTY**
- ↑↑↑**
- TUYA SMART**
- CE**

- A<sup>35°C</sup>+++**
- A<sup>55°C</sup>++**
- SPLIT**

## Device features

- |   |   |   |  |  |  |  |  |
|---|---|---|--|--|--|--|--|
| <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 4,61  | <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				AIS100X13i R14		
EAN Code				5905567602856		
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 / 380-415-50, 3f			
Rated input		W	9090			
Operating current		A	13,9			
Sound power level		dB	42			
Electric heater	Power supply	V-Hz, Ø	220-240-50, 1f / 380-415-50, 3f			
	Number of heating stages	pcs	3			
	Power	kW	9			
	Maximum operating current	A	13,6			
Net dimensions		(W x D x H)	mm	465 x 273 x 909		
Gross dimensions		(W x D x H)	mm	525 x 345 x 960		
Net weight / Gross weight			kg	37 / 41		
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	Ø9,52 / Ø15,88		
Minimal wire pcs and dimension of cords*		pcs x mm <sup>2</sup>	5 x 2,5			
Control cables: indoor unit to outdoor unit		pcs x mm <sup>2</sup>	2 x 0,75 (shielded cable)			

# Specification outdoor unit

Model				AISG100X1o R14	
EAN Code				5905567602641	
Power supply		V-Hz, Ø	220-240-50, 1f		
Heating (A7/W35)	Capacity	kW	9,70		
	Rated input	kW	2,10		
	COP		4,61		
Heating (A7/W45)	Capacity	kW	9,90		
	Rated input	kW	2,83		
	COP		3,48		
Heating (A7/W55)	Capacity	kW	9,90		
	Rated input	kW	3,58		
	COP		2,77		
Cooling (A35/W18)	Capacity	kW	10,30		
	Rated input	kW	2,25		
	EER		4,58		
Cooling (A35/W7)	Capacity	kW	9,60		
	Rated input	kW	3,26		
	EER		2,94		
Seasonal energy efficiency LWT at 35°C	SCOP <sup>(1)</sup>		4,82		
	Rated heat output		kW	8,9	
	Seasonal energy efficiency ratio (η <sub>s</sub> )		%	190	
	Annual energy consumption		kWh	3814	
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A+++		
Seasonal energy efficiency LWT at 55°C	SCOP <sup>(1)</sup>		3,21		
	Rated heat output		kW	7,8	
	Seasonal energy efficiency ratio (η <sub>s</sub> )		%	126	
	Annual energy consumption		kWh	4992	
	Seasonal space heating energy efficiency class <sup>(1)</sup>		A++		
SEER	LWT at 7°C		5,12		
	LWT at 18°C		8,23		
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B20		
Compressor		Type	Twin rotary inverter compressor DC		
Fan		Type	Brushless DC motor / BLDC		
Refrigerant		Quantity	1		
		Type	R32		
		GWP	675		
Pipe connections		Liquid / Gas	mm	Ø9,52 / Ø15,88	
		Minimum installation length	m	3	
Maximum height difference		Maximum installation length	m	15	
		Additional amount of refrigerant for over 7,5 linear meters	g/m	38	
		Outdoor unit above the indoor unit	m	8	
Minimal wire pcs and dimension of cords*		pcs x mm <sup>2</sup>	3 x 4		
		Control cables: indoor unit to outdoor unit	pcs x mm <sup>2</sup>	2 x 0,75 (shielded cable)	
Bracket spacing		(W1 x D)	mm	643 x 448	
Sound pressure level		dB(A)	46		
Sound power level		dB(A)	60		
Net dimensions		(W x D x H)	mm	999 x 448 x 803	
Gross dimensions		(W x D x H)	mm	1045 x 458 x 970	
Net weight / Gross weight			kg	72 / 83	
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.