

Airmi Split heat pump

AISW80X1o^[R14] / AIS80X13i^[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 4,52	Operating range down to -25°C	Supply water temperature of 65°C	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 15m
Silent mode	Integrated 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	Maximum leaving water temperature of 60°C (in DHW mode)	Prepared to create a cascade system	Modbus Protocol	

Specification indoor unit

Model				AIS80X131 R14
EAN Code				5905567602849
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)	Φ33 (1,30)
	Pressure relief valve		MPa	0,3
	Condensate drain		mm	Φ12,7
	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	Φ9,52 / Φ15,88
Minimal wire pcs and dimension of cords*		pcs x mm ²		5 x 4
Control cables: indoor unit to outdoor unit		pcs x mm ²		2 x 0,75 (shielded cable)

Specification outdoor unit

Model				AISW80X10 R14
EAN Code				5905567602634
Power supply		V-Hz, Ø		220-240-50, 1f
Heating (A7/W35)	Capacity	kW		7,90
	Rated input	kW		1,75
	COP			4,52
Heating (A7/W45)	Capacity	kW		8,30
	Rated input	kW		2,41
	COP			3,45
Heating (A7/W55)	Capacity	kW		8,00
	Rated input	kW		2,96
	COP			2,70
Cooling (A35/W18)	Capacity	kW		8,10
	Rated input	kW		1,76
	EER			4,59
Cooling (A35/W7)	Capacity	kW		7,70
	Rated input	kW		2,77
	EER			2,78
Seasonal energy efficiency LWT at 35°C	SCOP ⁽¹⁾			4,61
	Rated heat output	kW		7,1
	Seasonal energy efficiency ratio (η _S)	%		177
	Annual energy consumption	kWh		3249
	Seasonal space heating energy efficiency class ⁽¹⁾			A+++
Seasonal energy efficiency LWT at 55°C	SCOP ⁽¹⁾			3,20
	Rated heat output	kW		7,3
	Seasonal energy efficiency ratio (η _S)	%		126
	Annual energy consumption	kWh		4667
	Seasonal space heating energy efficiency class ⁽¹⁾			A++
SEER	LWT at 7°C			5,23
	LWT at 18°C			8,19
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
	Quantity			1
	Type			R32
Refrigerant	GWP			675
	Quantity	kg		1,50
		TCO _{eq}		1,013
	mm			Φ9,52 / Φ15,88
Pipe connections	Liquid / Gas			
	Minimum installation length		m	3
	Maximum installation length		m	15
	Additional amount of refrigerant for over 7,5 linear meters		g/m	38
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 x mm ²		3 x 4
Control cables: indoor unit to outdoor unit		pcs x mm ²		2 x 0,75 (shielded cable)
Bracket spacing		(W1 x D)	mm	624 x 425
Sound pressure level		dB(A)		46
Sound power level		dB(A)		59
Net dimensions		(W x D x H)	mm	971 x 425 x 703
Gross dimensions		(W x D x H)	mm	1025 x 425 x 865
Net weight / Gross weight			kg	58 / 69
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 IΔn: 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.