

Airmi Split heat pump

AISB100X10 [R14] / AIS100X13i [R14]



Device features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C A++



Maximum COP 4,61



Operating range down to -25°C



Supply water temperature of 65°C



Smart Grid functionality



Twin rotary compressor



Integrated electric



Outdoor unit drip tray heater



Compressor crankcase heate



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



2 heating control



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				AIS100X13i R14
EAN Code				5905567602856
Operation modes				Heating and cooling
	Space cooling		°C	7-25
Leaving water temperature	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
	Power supply	Power supply		220-240~50, 1f / 380-415~50, 3f
Electric heater	Number of heating stages		pcs	3
Electric rieater	Power		kW	9
	Maximum operating current		A	13,6
Net dimensions	ensions (W x D x H)		mm	465×273×909
Gross dimensions		(W x D x H)	mm	525×345×960
Net weight / Gross weight			kg	37/41
	Water connections		mm (inch)	Ф33 (1,30)
	Pressure relief valve		MPa	0,3
	Condensate drain		mm	Φ12,7
	Expansion tank	Total volume	I	5
Water circuit		Actual volume	1	2
water circuit		Maximum pressure	MPa	0,5
		Initial pressure	MPa	0,15
	Heat exchanger	Туре		PHE / plate heat exchanger
		Minimum flow	I/min	10
	Water pump head		m	9
Water pump type			DC inverter	
Refrigerant circuit	Liquid / Gas			Φ9,52 / Φ15,88
Minimal wire pcs and dimens	Minimal wire pcs and dimension of cords*			5×2,5
Control cables: indoor unit to	o outdoor unit		pcs × mm²	2 × 0,75 (shielded cable)

Specification outdoor unit

EAN Code Power supply	
Capacity KW 9,70	
Capacity KW 9,70	
Rated input	
COP	
Capacity	
Heating (A7/W45) Rated input Rated inp	
COP 3.48 COP 3.48 COP SARE CAPACITY CAPACITY CAPACITY CAPACITY CAPACITY COP CAPACITY COP CAPACITY COP CAPACITY CAPACIT	
Capacity	
Heating (A7M/S5) Rated input	
COP 2,77	
Capacity KW 10,30 Rated input KW 2,25 EER 4,58 Cooling (A35/WT) EER 9,60 Cooling (A35/WT) EER 1,00 Cooling (A35/WT) EER 2,94 Cooling (A35/WT) EER 4,82 Capacity KW 3,26 Capacity Capacity KW 3,26 Capacity Capacity KW 3,26 Capacity Capacity Capacity Capacity Capacity Capacity C	
Rated input KW 2,25	
(ASS/W18) EER	
Capacity	
Cooling (A35/W7) Rated input kW 3,26 EER 2,94 Scoppol specification 4,82 Rated heat output kW 8,9 Seasonal energy efficiency 5000 Seasonal energy efficiency 4,82 Regional energy efficiency 100 100	
EER 2,94	
ScOP10	
Seasonal energy efficiency Se	
Seasonal energy efficiency Seasonal energy efficiency ratio (nS) 96 190	
211 0.55 C	
Annual energy consumption kWh 3814	
Seasonal space heating energy efficiency class ⁽¹⁾ A+++	
SCOP ® 3,21	
Seasonal energy efficiency Rated heat output IW 7,8	
LWT at 55°C Seasonal energy emiciency ratio (η5) % 126	
Annual energy consumption kWh 4992	
Seasonal space heating energy efficiency class (1) A++	
SEER LWT at 79C 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	
Quantity 1	
Type R32	
Refrigerant GWP 675	
Quantity kg 1,60	
TCO ₂ eq 1,080	
Liquid / Gas mm Φ9,52 / Φ15,88	
Pipe connections Minimum installation length m 3	
Pipe Crimecutors 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	
Maximum height difference Ourdoor unit below the indoor unit	
Minimal wire pcs and dimension of cords* pcs × mm² 3 × 4	
Control cables: indoor unit to outdoor unit pcs × mm² 2 × 0.75 (shielded cable)	
Bracket spacing (W1 × D) mm 643 × 448	
Sound pressure level dB(A) 46	
Sound power level dB(A) 60	
Net dimensions (WxDxH) mm 999 x 448 x 803	
100	
Cross winerstands (WACAT) IIII (GOSS weight Kg 72,783	
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Operating 0,00001 Coming reading C 3-9-37-25-33 Lemperature DHW °C 25-43	
UIII C -22-43	

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 lever 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.



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Operating range down to -25°C



Supply water temperature of 65°C



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Integrated temperature sensor



Weather operating



2 heating control



Dedicated application



Disinfection



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



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Modbus Protocol



Specification indoor unit

Model				AIS100X13i R14
EAN Code				5905567602856
Operation modes				Heating and cooling
	Space cooling		°C	7-25
Leaving water temperature	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
	Power supply		V-Hz, Ø	220-240-50, 1f/380-415-50, 3f
Electric heater	Number of heating stages	Number of heating stages		3
Erectre redect	Power		kW	9
	Maximum operating current		A	13,6
Net dimensions		(W x D x H)	mm	465 × 273 × 909
Gross dimensions		(W x D x H)	mm	525 × 345 × 960
Net weight / Gross weight			kg	37 / 41
	Water connections		mm (inch)	Ф33 (1,30)
	Pressure relief valve		MPa	0,3
	Condensate drain		mm	Ф12,7
	Expansion tank	Total volume	1	5
Water circuit		Actual volume	1	2
water circuit		Maximum pressure	MPa	0,5
		Initial pressure	MPa	0,15
	Heat exchanger	Туре		PHE / plate heat exchanger
		Minimum flow	I/min	10
	Water pump head		m	9
Water pump type			DC inverter	
Refrigerant circuit	igerant circuit Liquid / Gas			Ф9,52 / Ф15,88
Minimal wire pcs and dimension of cords*			pcs × mm²	5×2,5
Control cables: indoor unit to	outdoor unit		pcs × mm²	2 × 0.75 (shielded cable)

Specification outdoor unit

Model				AISG100X1o R14
EAN Code				5905567602641
Power supply			V-Hz, Ø	220-240~50, 1f
	Capacity		kW	9,70
Heating	Rated input		kW	2,10
(A7/W35)	COP			4.61
	Capacity		kW	9,90
Heating	Rated input		kW	2,83
(A7/W45)	COP			3,48
	Capacity		kW	9,90
Heating	Rated input		kW	3,58
(A7/W55)	COP			2,77
	Capacity		kW	10,30
Cooling	Rated input		kW	2,25
(A35/W18)	EER			4.58
	Capacity		kW	9,60
Cooling	Rated input		kW	3,26
(A35/W7)	EER			2,94
	SCOP ⁽¹⁾			4,82
	Rated heat output		kW	8,9
Seasonal energy efficiency	Seasonal energy efficiency ratio (ηS)		96	190
LWT at 35°C	Annual energy consumption		kWh	3814
	Seasonal space heating energy efficiency	v class(f)	KWII	A+++
	SCOP (1)	y C1033		3,21
	Rated heat output		kW	7,8
Seasonal energy efficiency	Seasonal energy efficiency ratio (ηS)		96	126
LWT at 55°C	Annual energy consumption		kWh	4992
	Seasonal space heating energy efficiency class (1)		KWII	4
	LWT at 7°C	A CIGSS		5,12
SEER	LWT at 18°C			8,23
Minimum and a company of the	e overcurrent circuit breaker with breaker t		A	6,25 B20
Compressor	le overcurrent circuit breaker with breaker t		A	Twin rotary inverter compressor DC
Compressor		Type Type		Brushless DC motor / BLDC
Fan		Quantity		Brusiliess DC Hotor BEDC
				R32
		Type GWP		675
Refrigerant		GWP	1	1,60
		Quantity	kg	1,00
Liquid / Gas			TCO ₂ eq	
			mm	Φ9,52 / Φ15,88
Pipe connections	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 × mm²	3×4
Control cables: indoor unit to outdoor unit			pcs × mm²	2 × 0,75 (shielded cable)
Bracket spacing (W1 × D)		mm	643×448	
Sound pressure level		dB(A)	46	
Sound power level		dB(A)	60	
Net dimensions (W x D x H)		mm	999 × 448 × 803	
Gross dimensions (W x D x H)		mm	1045 × 458 × 970	
Net weight / Gross weight		kg	72 / 83	
	Cooling/ Heating		°C	-5~43 / -25~35
Operating outdoor temperature	DHW		°C	-25-43

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 lever 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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*The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.



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Indoor unit drip tray



Easy installation



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Integrated temperature sensor



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	DHW (tank)		°C	25~60
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Rated input			W	9090
Operating current			A	13,9
Sound power level			dB	42
	Power supply	Power supply		220-240~50, 1f / 380-415~50, 3f
Electric heater	Number of heating stages		pcs	3
Electric rieater	Power		kW	9
	Maximum operating current		A	13,6
Net dimensions	ensions (W x D x H)		mm	465×273×909
Gross dimensions		(W x D x H)	mm	525×345×960
Net weight / Gross weight			kg	37/41
	Water connections		mm (inch)	Ф33 (1,30)
	Pressure relief valve		MPa	0,3
	Condensate drain		mm	Φ12,7
	Expansion tank	Total volume	I	5
Water circuit		Actual volume	1	2
water circuit		Maximum pressure	MPa	0,5
		Initial pressure	MPa	0,15
	Heat exchanger	Туре		PHE / plate heat exchanger
		Minimum flow	I/min	10
	Water pump head		m	9
Water pump type			DC inverter	
Refrigerant circuit	Liquid / Gas			Φ9,52 / Φ15,88
Minimal wire pcs and dimens	Minimal wire pcs and dimension of cords*			5×2,5
Control cables: indoor unit to	o outdoor unit		pcs × mm²	2 × 0,75 (shielded cable)

Specification outdoor unit

Model				AISW100X1o R14
EAN Code				5905567602641
Power supply				220-240~50,1f
	Capacity		V-Hz, Ø kW	9,70
Heating	Rated input		kW	2,10
(A7/W35)	COP			4,61
	Capacity		kW	9,90
Heating	Rated input		kW	2,83
(A7/W45)	COP			3,48
	Capacity		kW	9,90
Heating	leating Rated input		kW	3,58
(A7/W55) Rated input				2,77
	Capacity		kW	10.30
Cooling	Rated input		kW	2,25
(A35/W18)	EER		KYV	4,58
			kW	9,60
Cooling	Capacity Pated input			
(A35/W7)	Rated input		kW	3,26
	EER			2,94
	SCOP ⁽¹⁾			4,82
Seasonal energy efficiency	Rated heat output		kW	8,9
LWT at 35°C	Seasonal energy efficiency ratio (ηS)		96	190
	Annual energy consumption		kWh	3814
		Seasonal space heating energy efficiency class ⁽¹⁾		A+++
	SCOP (1)			3,21
Seasonal energy efficiency	Rated heat output		kW	7,8
LWT at 55°C	Seasonal energy efficiency ratio (ηS)		96	126
EWI at 35 C	Annual energy consumption		kWh	4992
	Seasonal space heating energy efficiency	efficiency class (1)		A++
CEED	LWT at 7°C			5,12
SEER	LWT at 18°C			8,23
Minimum rated current of the	e overcurrent circuit breaker with breaker t	ype	A	B20
Compressor		Туре		Twin rotary inverter compressor DC
-		Туре		Brushless DC motor / BLDC
Fan		Quantity		1
		Туре		R32
		GWP		675
Refrigerant			kg	1,60
		Quantity	TCO,eq	1,080
	Liquid / Gas		mm	Φ9,52 / Φ15,88
	Minimum installation length		m	3
Pipe connections	Maximum installation length		m	15
	Additional amount of refrigerant for over	7.5 linear meters	g/m	38
	Outdoor unit above the indoor unit	7,3 iii ledi Tileter3	m	8
Maximum height difference	Outdoor unit above the indoor unit Outdoor unit below the indoor unit		m	8
Minimal wire nes and dimons	Outdoor unit below the indoor unit Minimal wire pcs and dimension of cords*		pcs × mm²	3×4
Control cables: indoor unit to outdoor unit			pcs × mm²	2 × 0,75 (shielded cable)
				643 × 448
Bracket spacing (W1 × D)			mm	
Sound pressure level			dB(A)	46
Sound power level			dB(A)	60
Net dimensions (W x D x H)		mm	999 × 448 × 803	
	Gross dimensions (W x D x H)		mm	1045 × 458 × 970
Net weight / Gross weight	reight		kg	72 / 83
	Cooling/ Heating			
Operating outdoor temperature	Cooling/ Heating DHW		°C	.5~43 / -25~35 -25~43

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 lever 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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