

# Heatmi Split heat pump

HES100X1o<sup>[R14]</sup> / HES100X13i<sup>[R14]</sup>



## Device features

Environmentally friendly refrigerant R32	Efficient heating	Energy efficiency class at 35°C A+++	Energy efficiency class at 55°C A++	Maximum COP 4,80	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 30m
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	DHW circulation pump operation schedules	Maximum leaving water temperature of 60°C (in DHW mode)	Prepared to create a cascade system	Modbus Protocol

# Specification indoor unit

Model				HES100X13i R14	
EAN Code				5905567602399	
Operation modes				Heating and cooling	
Leaving water temperature	Space cooling		°C	5-25	
	Space heating		°C	25-65	
	DHW (tank)		°C	30-60	
Power supply			V-Hz, Ø	380-420-50, 3f	
Rated input			W	9100	
Operating current			A	13,1	
Sound power level			dB	42	
Electric heater	Power supply		V-Hz, Ø	380-420-50, 3f	
	Number of heating stages		pcs	3	
	Power		kW	9	
	Maximum operating current		A	13,3	
Net dimensions		(W x D x H)	mm	420 x 270 x 790	
Gross dimensions		(W x D x H)	mm	530 x 355 x 1035	
Net weight / Gross weight			kg	39,5 / 44,5	
Water circuit	Water connections		inch	R1"	
	Pressure relief valve		MPa	0,3	
	Condensate drain		mm	Ø25	
	Expansion tank	Total volume		l	8
		Actual volume		l	2,4
		Maximum pressure		MPa	0,3
		Initial pressure		MPa	0,1
	Heat exchanger	Type			PHE / plate heat exchanger
		Minimum flow		l/min	14,2
	Water pump head			m	9
Water pump type				DC inverter	
Refrigerant circuit		Liquid / Gas	mm	Ø9,52 / Ø15,9	
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				HES100X1o R14
EAN Code				5905567602368
Power supply			V-Hz, Ø	220-240-50, 1f
Heating (A7/W35)	Capacity		kW	9,50
	Rated input		kW	1,98
	COP			4,80
Heating (A7/W45)	Capacity		kW	9,50
	Rated input		kW	2,60
	COP			3,65
Heating (A7/W55)	Capacity		kW	9,00
	Rated input		kW	3,00
	COP			3,00
Cooling (A35/W18)	Capacity		kW	9,50
	Rated input		kW	2,07
	EER			4,60
Cooling (A35/W7)	Capacity		kW	8,00
	Rated input		kW	2,53
	EER			3,16
Seasonal energy efficiency LWT at 35°C	SCOP <sup>(1)</sup>			4,87
	Rated heat output		kW	9,0
	Seasonal energy efficiency ratio (η <sub>s</sub> )		%	191,7
	Annual energy consumption		kWh	3791
	Seasonal space heating energy efficiency class <sup>(1)</sup>			A+++
Seasonal energy efficiency LWT at 55°C	SCOP <sup>(1)</sup>			3,41
	Rated heat output		kW	8,00
	Seasonal energy efficiency ratio (η <sub>s</sub> )		%	133,4
	Annual energy consumption		kWh	4895
	Seasonal space heating energy efficiency class <sup>(1)</sup>			A++
SEER	LWT at 7°C			5,68
	LWT at 18°C			8,34
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		Quantity	kg	1,65
		TCO <sub>eq</sub>		1,11
		mm		Ø9,52 / Ø15,9
Maximum height difference		Minimum installation length	m	2
		Maximum installation length	m	30
		Additional amount of refrigerant for over 7,5 linear meters	g/m	38 (L-15)
Outdoor unit above the indoor unit			m	20
		Outdoor unit below the indoor unit	m	20
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	607 x 390
Sound pressure level			dB(A)	50
Sound power level			dB(A)	61
Net dimensions		(W x D x H)	mm	993 x 421 x 804
Gross dimensions		(W x D x H)	mm	1022 x 480 x 835
Net weight / Gross weight			kg	59,5 / 63
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.