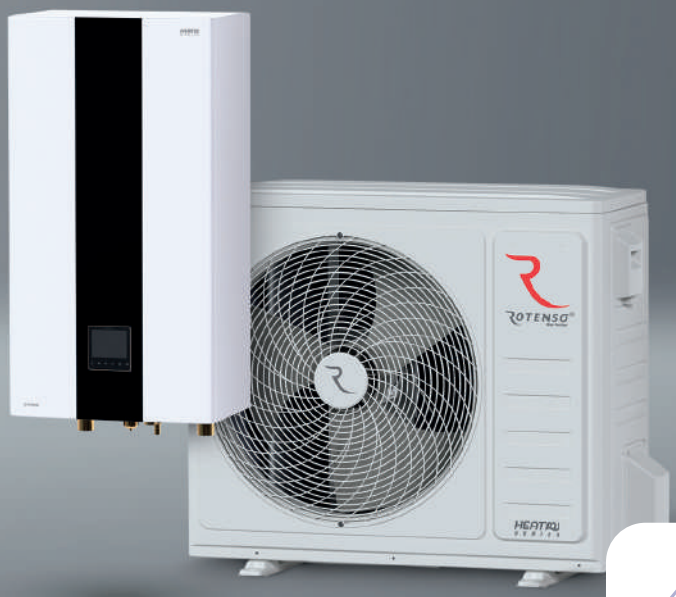
Heatmi Split heat pump

HES40X1o [R14] / HES60X1i [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 5,20
- 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

Rotenso reserves the right to make changes to its products without prior notice.

Specification indoor unit

Model				**HES60X1i R14**
EAN Code				5905567602375
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	220-240~50, 1f
Rated input			W	3100
Operating current			A	13,1
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	13,4
Net dimensions		(W x D x H)	mm	420 × 270 × 790
Gross dimensions		(W x D x H)	mm	530 × 355 × 1035
Net weight / Gross weight			kg	38,5 / 43,5
Water circuit	Water connections		inch	R1"
	Pressure relief valve		MPa	0,3
	Condensate drain		mm	Φ25
	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	Φ9,52 / Φ15,9
Minimal wire pcs and dimension of cords*			pcs × mm²	3 × 2,5
Control cables: indoor unit to outdoor unit			pcs × mm²	2 × 0,75 (shielded cable)

Specification outdoor unit

Model				**HES40X1o R14**
EAN Code				5905567602337
Power supply			V-Hz, Ø	220-240~50, 1f
Heating (A7/W35)	Capacity		kW	4,31
	Rated input		kW	0,82
	COP			5,20
Heating (A7/W45)	Capacity		kW	4,35
	Rated input		kW	1,14
	COP			3,80
Heating (A7/W55)	Capacity		kW	4,47
	Rated input		kW	1,49
	COP			2,95
Cooling (A35/W18)	Capacity		kW	4,53
	Rated input		kW	0,81
	EER			5,55
Cooling (A35/W7)	Capacity		kW	4,68
	Rated input		kW	1,36
	EER			3,45
Seasonal energy efficiency LWT at 35ºC	SCOP[1]			4,85
	Rated heat output		kW	5,50
	Seasonal energy efficiency ratio (ηS)		%	189
	Annual energy consumption		kWh	2368
	Seasonal space heating energy efficiency class[1]			A+++
Seasonal energy efficiency LWT at 55ºC	SCOP [1]			3,31
	Rated heat output		kW	4,3
	Seasonal energy efficiency ratio (ηS)		%	129,4
	Annual energy consumption		kWh	2684
	Seasonal space heating energy efficiency class [1]			A++
SEER	LWT at 7ºC			4,74
	LWT at 18ºC			7,38
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
		Quantity		1
Refrigerant		Type		R32
		GWP		675
		Quantity	kg	1,65
			TCO_2eq	1,11
Pipe connections	Liquid / Gas		mm	Φ9,52 / Φ15,9
	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)
Maximum height difference	Outdoor unit above the indoor unit		m	20
	Outdoor unit below the indoor unit		m	20
Minimal wire pcs and dimension of cords*			pcs × mm²	3 × 2,5
Control cables: indoor unit to outdoor unit			pcs × mm²	2 × 0,75 (shielded cable)
Bracket spacing		(W1 × D)	mm	607 × 390
Sound pressure level			dB(A)	44
Sound power level			dB(A)	56
Net dimensions		(W x D x H)	mm	993 × 421 × 804
Gross dimensions		(W x D x H)	mm	1022 × 480 × 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 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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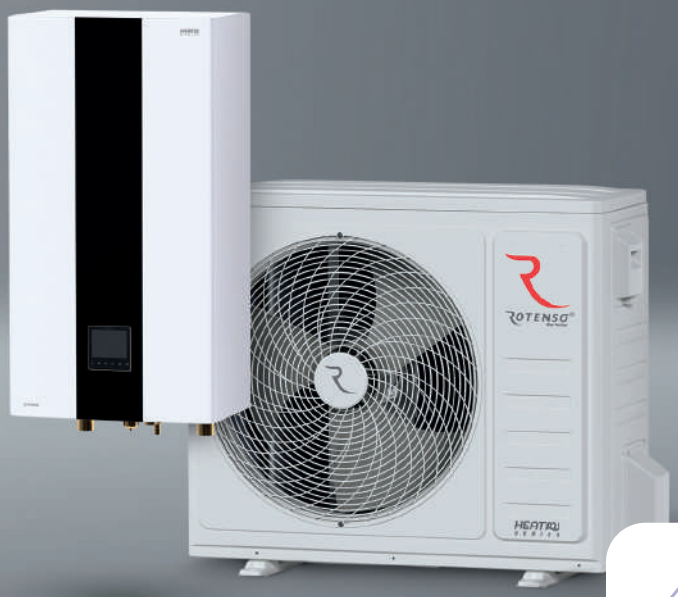

COP 5,01 · -25°C · R32 REFRIGERANT Environmentally friendly · 65°C · TUYA SMART · 5-YEAR WARRANTY · CE

A+++ 35°C · A++ 55°C · SPLIT

HEAT PUMP KEYMARK www.heatpump.keymark.eu

Device features

- Environmentally friendly refrigerant R32
- Efficient heating
- Energy efficiency class at 35°C A+++
- Energy efficiency class at 55°C A++
- Maximum COP 5,01
- 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

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Specification indoor unit

Model				**HES60X1i R14**
EAN Code				5905567602375
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	220-240~50, 1f
Rated input			W	3100
Operating current			A	13,1
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	13,4
Net dimensions		(W x D x H)	mm	420 × 270 × 790
Gross dimensions		(W x D x H)	mm	530 × 355 × 1035
Net weight / Gross weight			kg	38,5 / 43,5
Water circuit	Water connections		inch	R1"
	Pressure relief valve		MPa	0,3
	Condensate drain		mm	Φ25
	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	Φ9,52 / Φ15,9
Minimal wire pcs and dimension of cords*			pcs × mm²	3 × 2,5
Control cables: indoor unit to outdoor unit			pcs × mm²	2 × 0,75 (shielded cable)

Specification outdoor unit

Model				**HES60X1o R14**
EAN Code				5905567602344
Power supply			V-Hz, Ø	220-240~50, 1f
Heating (A7/W35)	Capacity		kW	6,27
	Rated input		kW	1,24
	COP			5,01
Heating (A7/W45)	Capacity		kW	6,35
	Rated input		kW	1,65
	COP			3,75
Heating (A7/W55)	Capacity		kW	6,15
	Rated input		kW	2,00
	COP			3,00
Cooling (A35/W18)	Capacity		kW	6,71
	Rated input		kW	1,34
	EER			4,90
Cooling (A35/W7)	Capacity		kW	7,13
	Rated input		kW	2,33
	EER			3,00
Seasonal energy efficiency LWT at 35ºC	SCOP(1)			4,95
	Rated heat output		kW	6,8
	Seasonal energy efficiency ratio (ηS)		%	194,8
	Annual energy consumption		kWh	2841
	Seasonal space heating energy efficiency class(1)			A+++
Seasonal energy efficiency LWT at 55ºC	SCOP (1)			3,52
	Rated heat output		kW	5,60
	Seasonal energy efficiency ratio (ηS)		%	138,5
	Annual energy consumption		kWh	3270
	Seasonal space heating energy efficiency class (1)			A++
SEER	LWT at 7ºC			5,07
	LWT at 18ºC			7,80
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
		Quantity		1
Refrigerant		Type		R32
		GWP		675
		Quantity	kg	1,65
			TCO_2eq	1,11
Pipe connections	Liquid / Gas		mm	Φ9,52 / Φ15,9
	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)
Maximum height difference	Outdoor unit above the indoor unit		m	20
	Outdoor unit below the indoor unit		m	20
Minimal wire pcs and dimension of cords*			pcs × mm²	3 × 2,5
Control cables: indoor unit to outdoor unit			pcs × mm²	2 × 0,75 (shielded cable)
Bracket spacing		(W1 × D)	mm	607 × 390
Sound pressure level			dB(A)	45
Sound power level			dB(A)	58
Net dimensions		(W x D x H)	mm	993 × 421 × 804
Gross dimensions		(W x D x H)	mm	1022 × 480 × 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 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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