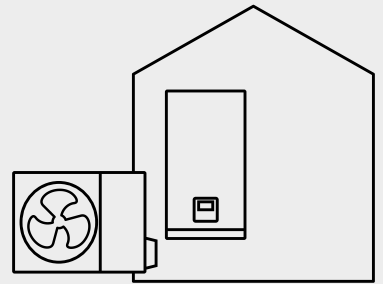


SPLIT

heat pumps



KMK-190L | 240L -100RY1

KMK-240L-160RY3

KHA-06RY1-B

KHA-08 | 10 RY1-B

KHA-12 | 14 | 16 RY3-B





A compact design, an independent indoor unit, and a flexible installation make the split type heat pump an ideal choice for owners of houses, shops, offices and retail premises.

All the hydraulic components are easily accessible. The cooling connection between the outdoor and indoor units is resistant to freezing, even during a prolonged power failure, and an additional charge of refrigerant is only required if the length of the cooling lines exceeds 15 m.

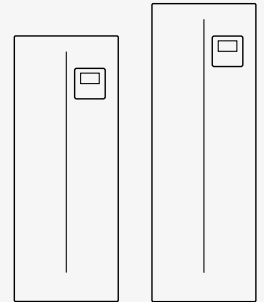
SPLIT HEAT PUMPS

Hydraulic module with DHW tank



- The most compact design in the Kaisai heat pump range: hydraulic module + DHW tank in one
- A complete unit for central heating and DHW operation
- The footprint area is only 0.36 m²
- Built-in three way valve and an auxiliary heater
- DHW tank available in two sizes: 190 L and 240 L
- Built-in controller

KMK-190L-100RY1, KMK-240L-100/160RY3



T E C H N I C A L S P E C I F I C A T I O N

Model		KMK-190L-100RY1		KMK-240L-100RY3		KMK-240L-160RY3		
Names of compatible outdoor unit models		KHA-06RY1-B	KHA-08RY1-B KHA-10RY1-B	KHA-06RY1-B	KHA-08RY1-B KHA-10RY1-B	KHA-12RY3-B KHA-14RY3-B KHA-16RY3-B		
Heat exchanger		plate						
Water pump	type	DC Inverter						
	head	m H2O	9	9	9	9	9	
Expansion vessel		volume	l	8	8	8	8	
Water consumption profile acc. to EN16147			L	L	XL	XL	XL	
Domestic hot water 1	energy efficiency class for DHW heating	temperate climate	class	A+	A+	A+	A+	A+
			COP	3,10	3,02	3,34	3,36	3,00
		warm climate	class	A+	A+	A+	A+	A+
			COP	3,80	3,66	4,24	4,18	3,73
		cold climate	class	A	A	A	A	A
			COP	2,50	2,61	2,63	2,72	2,24
DHW tank	type	stainless steel						
	material	SUS 316L						
	water capacity	L	190	190	240	240	240	
	maximum water temperature	°C	70	70	70	70	70	
	insulation (material)	poliuretán (cyklopentan)						
Electric power supply	voltage / number of phases / frequency	V/Ph/Hz	220÷240/1/50		380÷415/3/50		380÷415/3/50	
	maximum operating current (MCA)	A	14,3	14,3	14,3	14,3	14,3	
Auxiliary electric heater	electric power	kW	3	3	3/6/9	3/6/9	3/6/9	
	capacity levels		1	1	3	3	3	
	power supply	V/Ph/Hz	220÷240/1/50		380÷415/3/50		380÷415/3/50	
Sound power level		dB	38	40	38	40	44	
Temperature range	indoor	°C	5÷35	5÷35	5÷35	5÷35	5÷35	
	heating	°C	25÷65	25÷65	25÷65	25÷65	25÷65	
	cooling	°C	5÷25	5÷25	5÷25	5÷25	5÷25	
	domestic hot water (DHW)	°C	30÷60	30÷60	30÷60	30÷60	30÷60	
Water connection	heating system (external thread ET)	supply/return	cal	1	1	1	1	
	DHW (external thread ET)	cold water circulation hot water	cal	3/4	3/4	3/4	3/4	
Dimensions	of the unit (W×H×L)	mm	600x1683x600			600x1943x600		
	of the packaging (W×H×L)	mm	653x1900x653			653x2160x653		
Weight	net / in packaging	kg	138,6 / 153,8		155,3 / 170,2		157,3 / 172,2	

The technical data above is compliant with the guidelines specified in the following standards: EN16147/2017; EN14511/2018; EN14825/2018; EU No.: 811/2013
The sound power level in the heating mode was determined in accordance with EN 12102, under the conditions consistent with EN 14825;

SPLIT HEAT PUMPS

Outdoor units



- Compact design, independent hydraulic module, and flexible installation
- The cooling connection between the outdoor and indoor units is resistant to freezing, even during a prolonged power failure
- An additional charge of refrigerant is only required if the length of the cooling lines exceeds 15 m.
- Built-in drip tray with heater

KHA-06 | 08 | 10RY1-B, KHA-12 | 14 | 16RY3-B

TECHNICAL SPECIFICATION

Model			KHA-06RY1-B	KHA-08RY1-B	KHA-10RY1-B	KHA-12RY3-B	KHA-14RY3-B	KHA-16RY3-B
Heating A7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	6,20 (2,73÷7,41)	8,30 (3,36÷9,11)	10,00 (3,81÷10,30)	12,10 (5,58÷14,60)	14,50 (5,92÷15,50)	16,00 (6,43÷16,80)
	electric energy consumption (range)	kW	1,24 (0,53÷1,56)	1,60 (0,61÷1,80)	2,00 (0,71÷2,09)	2,44 (1,04÷3,11)	3,09 (1,12÷3,37)	3,56 (1,27÷3,79)
	COP (range)	W/W	5,00 (5,32÷4,76)	5,20 (5,54÷5,07)	5,00 (5,39÷4,93)	4,95 (5,38÷4,69)	4,70 (5,27÷4,59)	4,50 (5,08÷4,43)
Heating A2W35 ΔT=5, R.H. 85%	nominal heat capacity	kW	5,50	7,10	8,20	9,30	11,40	13,00
	electric power consumption	kW	1,39	1,73	2,02	2,35	3,12	3,71
	COP	W/W	3,95	4,10	4,05	3,95	3,65	3,50
Heating A-7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	6,10(1,48÷6,21)	7,10(1,82÷7,27)	8,25(2,05÷8,31)	10,00(3,97÷11,00)	12,00(4,57÷12,70)	13,30(4,99÷13,90)
	electric energy consumption (range)	kW	2,00 (0,48÷2,17)	2,18 (0,53÷2,26)	2,62 (0,61÷2,61)	3,33 (1,26÷3,89)	4,29 (1,48÷4,55)	4,93 (1,68÷5,19)
	COP (range)	W/W	3,05(3,06÷2,86)	3,25(3,44÷3,21)	3,15(3,37÷3,11)	3,00(3,14÷2,83)	2,80(3,10÷2,79)	2,70(2,97÷2,67)
Cooling A35W18 ΔT=5	nominal cooling capacity	kW	6,55	8,40	10,00	12,00	13,50	14,90
	electric power consumption	kW	1,34	1,66	2,08	3,00	3,75	4,38
	EER	W/W	4,90	5,05	4,80	4,00	3,60	3,40
Cooling A35W7 ΔT=5	nominal cooling capacity	kW	7,00	7,40	8,20	11,60	12,70	14,00
	electric power consumption	kW	2,33	2,19	2,48	4,22	4,98	5,71
	EER	W/W	3,00	3,38	3,30	2,75	2,55	2,45
Seasonal energy efficiency rating for room heating	LWT at 35°C (temperate climate zone)	klasa	A+++	A+++	A+++	A+++	A+++	A+++
	LWT at 55°C (temperate climate zone)	klasa	A++	A++	A++	A++	A++	A++
SCOP	LWT at 35°C		4,95	5,21	5,19	4,81	4,72	4,62
	LWT at 55°C		3,52	3,36	3,49	3,45	3,47	3,41
Power supply	voltage / number of phases / frequency	V/Ph/Hz	220÷240/1/50	220÷240/1/50	220÷240/1/50	380÷415/3/50	380÷415/3/50	380÷415/3/50
	maximum operating current (MCA)	A	14	16	17	10	11	12
Sound level	sound power level (acc. to EN 12102)	dB	58	59	60	64	65	68
	acoustic pressure (1m)	dB	45	46	49	50	51	55
Outside air temperature range	cooling	°C	-5÷43	-5÷43	-5÷43	-5÷43	-5÷43	-5÷43
	heating	°C	-25÷35	-25÷35	-25÷35	-25÷35	-25÷35	-25÷35
	CWU	°C	-25÷43	-25÷43	-25÷43	-25÷43	-25÷43	-25÷43
Compressor type	twin rotary	DC	DC	DC	DC	DC	DC	
Cooling system	liquid / gas line diameters	mm	6,35 / 15,88	9,52 / 15,88	9,52 / 15,88	9,52 / 15,88	9,52 / 15,88	9,52 / 15,88
		cal	1/4 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
	permissible system length / permissible height difference	m	2÷30 / 20	2÷30 / 20	2÷30 / 20	2÷30 / 20	2÷30 / 20	2÷30 / 20
	connection method		socket	socket	socket	socket	socket	socket
Additional refrigerant	charge	g/m	20	38	38	38	38	38
	length without charge	m	<15	<15	<15	<15	<15	<15
Refrigerant	symbol (GWP) / refrigerant amount	kg	R32 (675) / 1,5	R32 (675) / 1,65	R32 (675) / 1,65	R32 (675) / 1,84	R32 (675) / 1,84	R32 (675) / 1,84
	of the unit (W×H×L)	mm	1008×712×426			1118×865×523		
Dimensions	of the packaging (W×H×L)	mm	1065×800×485			1180×890×560		
Weight	net / in packaging		58 / 64	75 / 89	75 / 89	112 / 125	112 / 125	112 / 125

The technical data above is compliant with the guidelines specified in the following standards: EN14511; EN14825; EN50564; EN12102; (EU) No. 811:2013; (EU) No. 813:2013; OJ 2014/C 207/02:2014. The SCOP seasonal heating efficiency was determined for temperate climate conditions.
The sound power level in the heating mode was determined in accordance with EN 12102, under the conditions consistent with EN 14825;