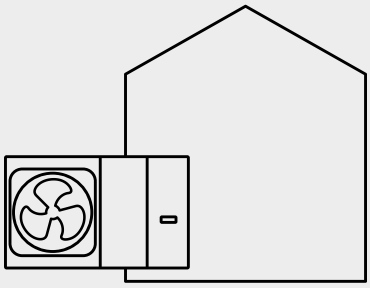
MONOBLOCK
heat pumps



KHC-06RY1
KHC-08 | 10 | 12 | 14 | 16 RY3
KHC-22 | 30RX3

In the monoblock heat pumps, the refrigerant system is completely integrated within the outdoor unit. First and foremost, such a solution ensures no need to hold special authorisations in terms of cooling systems, space-saving and quiet unit operation.

The special design allows easy access to the internal components, while the length of the communication cable of up to 50 m provides great freedom, in terms of installing the controller.

Outdoor units

- Easy installation and simple maintenance
- All hydraulic components in the outdoor unit: i.a.: circulating pump, expansion vessel, safety and air vent valve, flow sensor, pressure gauge and water flow heater, are fitted as standard.
- The cooling system is fully integrated in the outdoor unit, which means that no additional freon lines are required.
- Compact design, easy to transport and install

KHC-06RY1

TECHNICAL SPECIFICATION

Model			KHC-06RY1
Heating A7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	6,35 (2,73÷7,41)
	electric energy consumption (range)	kW	1,28 (0,53÷1,56)
	COP (range)	W/W	4,95 (5,32÷4,76)
Heating A2W35 ΔT=5, R.H. 85%	nominal heat capacity	kW	5,50
	electric power consumption	kW	1,41
	COP	W/W	3,90
Heating A-7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	6,00 (1,48÷6,21)
	electric energy consumption (range)	kW	2,00 (0,48÷2,17)
	COP (range)	W/W	3,00 (3,06÷2,86)
Cooling A35W18 ΔT=5	nominal cooling capacity	kW	6,50
	electric power consumption	kW	1,35
	EER	W/W	4,80
Cooling A35W7 ΔT=5	nominal cooling capacity	kW	7,00
	electric power consumption	kW	2,33
	EER	W/W	3,00
Seasonal energy efficiency rating for room heating	LWT at 35°C class (temperate climate zone)	class	A+++
	LWT at 55°C class (temperate climate zone)	class	A++
SCOP	LWT at 35°C	W/W	4,95
	LWT at 55°C	W/W	3,52
Power supply	voltage / number of phases / frequency	V/Ph/Hz	220÷240/1/50
	maximum operating current (MCA)	A	27
Auxiliary electric heater	electric power	kW	3
	capacity levels		1
Sound level	sound power level	dB(A)	58
	acoustic pressure (1 m)	dB(A)	45
Outside air temperature range	cooling	°C	-5÷43
	heating	°C	-25÷35
	DHW	°C	-25÷43
Leaving water temperature range	cooling	°C	5÷25
	heating	°C	25÷65
	DHW	°C	30÷60
Water connection	diameter	cal	external thread G1
Refrigerant	symbol (GWP) / refrigerant amount	--- / kg	R32 (675) / 1,4
Dimensions	of the unit (W×H×L)	mm	1295×792×429
	of the packaging (W×H×L)	mm	1375×965×475
Weight	net / in packaging	kg	98 / 121

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;

KHC-08|10|12|14|16RY3

TECHNICAL SPECIFICATION

Model			KHC-08RY3	KHC-10RY3	KHC-12RY3	KHC-14RY3	KHC-16RY3
Heating A7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	8,40 (3,36÷9,11)	10,00 (3,81÷10,3)	12,10 (5,58÷14,6)	14,50 (5,92÷15,50)	15,90 (6,43÷16,80)
	electric energy consumption (range)	kW	1,63 (0,61÷1,80)	2,02 (0,71÷2,09)	2,44 (1,04÷3,11)	3,15 (1,12÷3,37)	3,53 (1,27÷3,79)
	COP (range)	W/W	5,15 (5,54÷5,07)	4,95 (5,39÷4,93)	4,95 (5,38÷4,69)	4,60 (5,27÷4,59)	4,50 (5,08÷4,43)
Heating A2W35 ΔT=5, R.H. 85%	nominal heat capacity	kW	7,10	8,20	9,20	11,00	13,00
	electric power consumption	kW	1,73	2,05	2,36	3,06	3,77
	COP	W/W	4,10	4,00	3,90	3,60	3,45
Heating A-7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	7,00 (1,82÷7,27)	8,00 (2,05÷8,31)	10,00 (3,97÷11,00)	12,00 (4,57÷12,70)	13,10 (4,99÷13,90)
	electric energy consumption (range)	kW	2,19 (0,53÷2,26)	2,62 (0,61÷2,61)	3,33 (1,26÷3,89)	4,21(1,48÷4,55)	4,85 (1,68÷5,19)
	COP (range)	W/W	3,26 (3,44÷3,21)	3,05 (3,37÷3,11)	3,00 (3,14÷2,83)	2,85 (3,10÷2,79)	2,70 (2,97÷2,67)
Cooling A35W18 ΔT=5	nominal cooling capacity	kW	8,30	9,90	12,00	13,50	14,90
	electric power consumption	kW	1,64	2,18	3,04	3,75	4,38
	EER	W/W	5,05	4,55	3,95	3,60	3,40
Cooling A35W7 ΔT=5	nominal cooling capacity	kW	7,45	8,20	11,50	12,40	14,00
	electric power consumption	kW	2,22	2,52	4,18	4,96	5,60
	EER	W/W	3,35	3,25	2,75	2,50	2,50
Seasonal energy efficiency rating for room heating	LWT at 35°C class (temperate climate zone)	klasa	A+++	A+++	A+++	A+++	A+++
	LWT at 55°C class (temperate climate zone)	klasa	A++	A++	A++	A++	A++
SCOP	LWT at 35°C	W/W	5,22	5,20	4,81	4,72	4,62
	LWT at 55°C	W/W	3,37	3,47	3,45	3,47	3,41
Power supply	voltage / number of phases / frequency	V/Ph/Hz	380÷415/3/50	380÷415/3/50	380÷415/3/50	380÷415/3/50	380÷415/3/50
	maximum operating current (MCA)	A	29	30	23	24	25
Auxiliary electric heater	electric power	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	capacity levels		3	3	3	3	3
Sound level	sound power level	dB(A)	59	60	65	65	68
	acoustic pressure (1 m)	dB(A)	46	49	50	51	55
Outside air temperature range	cooling	°C	-5÷43	-5÷43	-5÷43	-5÷43	-5÷43
	heating	°C	-25÷35	-25÷35	-25÷35	-25÷35	-25÷35
	DHW	°C	-25÷43	-25÷43	-25÷43	-25÷43	-25÷43
Leaving water temperature range	cooling	°C	5÷25	5÷25	5÷25	5÷25	5÷25
	heating	°C	25÷65	25÷65	25÷65	25÷65	25÷65
	DHW	°C	30÷60	30÷60	30÷60	30÷60	30÷60
Water connection	diameter	cal	external thread G5/4				
Refrigerant	symbol (GWP) / refrigerant amount	--- / kg	R32 (675) / 1,4	R32 (675) / 1,4	R32 (675) / 1,75	R32 (675) / 1,75	R32 (675) / 1,75
Dimensions	of the unit (W×H×L)	mm	1385×945×526				
	of the packaging (W×H×L)	mm	1465×1120×560				
Weight	net / in packaging	kg	121 / 148	121 / 148	160 / 188	160 / 188	160 / 188

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;

KHC- 22 | 30 RX3

TECHNICAL SPECIFICATION

Model			KHC-22RX3	KHC-30RX3
Heating A7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	22,00 (9,92÷24,93)	30,10 (13,85÷31,75)
	electric energy consumption (range)	kW	5,00 (1,90÷6,47)	7,70 (2,93÷9,51)
	COP (range)	W/W	4,40 (5,33÷3,85)	3,91 (4,73÷3,34)
Heating A2W35 ΔT=5, R.H. 85%	nominal heat capacity	kW	22,00	26,00
	electric power consumption	kW	7,09	9,38
	COP	W/W	3,10	2,80
Heating A-7W35 ΔT=5, R.H. 85%	nominal heat capacity (range)	kW	21,00 (8,10÷23,73)	23,00 (10,35÷24,89)
	electric energy consumption (range)	kW	8,07 (2,91÷9,25)	9,38 (3,66÷9,93)
	COP (range)	W/W	2,60 (2,75÷2,56)	2,45 (2,83÷2,51)
Cooling A35W18 ΔT=5	nominal cooling capacity	kW	23,00	31,00
	electric power consumption	kW	5,00	7,75
	EER	W/W	4,60	4,00
Cooling A35W7 ΔT=5	nominal cooling capacity	kW	21,00	29,50
	electric power consumption	kW	7,12	11,57
	EER	W/W	2,95	2,55
Seasonal energy efficiency rating for room heating	LWT at 35°C class (temperate climate zone)	klasa	A+++	A++
	LWT at 55°C class (temperate climate zone)	klasa	A++	A+
SCOP	LWT at 35°C	W/W	4,53	4,19
	LWT at 55°C	W/W	3,22	3,14
Power supply	voltage / number of phases / frequency	V/Ph/Hz	380÷415/3/50	380÷415/3/50
	maximum operating current (MCA)	A	24,5	28,5
Sound level	sound power level	dB(A)	73	77
	acoustic pressure (1 m)	dB(A)	59	63
Outside air temperature range	cooling	°C	-5÷46	-5÷46
	heating	°C	-25÷35	-25÷35
	DHW	°C	-25÷43	-25÷43
Leaving water temperature range	cooling	°C	5÷25	5÷25
	heating	°C	25÷60	25÷60
	DHW	°C	40÷60	40÷60
Water connection	diameter	cal	external thread G5/4	
Refrigerant	symbol (GWP) / refrigerant amount	--- / kg	R32 (675) / 5,0	R32 (675) / 5,0
Dimensions	of the unit (W×H×L)	mm	1129×1558×440	
	of the packaging (W×H×L)	mm	1220×1735×565	
Weight	net / in packaging	kg	177 / 206	177 / 206

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;