



Heat pumps

Monobloc R290

9-22kW



KENSOL R290 Monobloc heat pumps are high-efficiency air-to-water heat pumps designed for space heating, cooling, and domestic hot water (DHW) production.

They use the environmentally friendly **R290** natural refrigerant, delivering excellent seasonal efficiency, an **A+++** energy efficiency rating (**W35**), and quiet, reliable operation.

Equipped with an intuitive touchscreen controller and remote control via a mobile app, they provide convenient and user-friendly operation every day.



Wi-Fi Control



5+2-Year Warranty



Quiet Operation



Multilingual Menu



R290 Refrigerant



Energy Efficiency Class
A+++ (W35)

KENSOL

ENERGY FOR THE FUTURE

Model	KHP-R290-9-1	KHP-R290-15-1	R290-15-3	R290-22-3
Power supply	230V~/50Hz		380~415V/3N~/50Hz	
Ingress protection rating	IPX4			
Heating mode: Ambient temperature (DB/WB): 7/6°C · Water temperature (inlet/outlet): 30/35°C				
Heating capacity range (kW)	3,10-8,90	5,28-14,95	5,28-14,95	7,80-22,00
Heating power input range (kW)	0,58-2,10	0,98-3,85	0,98-3,85	1,48-5,90
COP A7W35	4,24-5,34	3,88-5,39	3,88-5,39	3,73-5,27
Heating mode: Ambient temperature: 2°C · Water temperature (inlet/outlet): 30/35°C				
Heating capacity range (kW)	2,66-7,40	4,61-11,60	4,61-11,60	6,69-18,80
Heating power input range (kW)	0,55-2,01	0,95-3,60	0,95-3,60	1,45-5,50
COP A2W35	3,68-4,84	3,22-4,85	3,22-4,85	3,42-4,61
Cooling mode: Ambient temperature (DB/WB): 35/24°C · Water temperature (inlet/outlet): 12/7°C				
Cooling capacity range (kW)	1,20~5,72	3,60~10,50	3,60~10,50	4,20~15,00
Cooling power input range (kW)	0,65~2,40	1,12~4,47	1,12~4,47	1,80~7,30
Cooling input current range (A)	2,9~10,5	4,9~19,6	2,0~7,9	3,2~12,9
SCOP (35°C), average climate	5,22	5,13	5,15	5,13
SCOP (55°C), average climate	3,84	3,97	3,96	3,84
Maximum power input (kW)	3,0	5,3	5,3	9
Maximum input current (A)	13,5	24,5	10,5	15,8
Water flow rate (m³/h)	1,0	1,7	1,7	2,9
Refrigerant / Refrigerant charge (kg)	R290 / 0,50kg	R290 / 0,85kg	R290 / 0,85kg	R290 / 1,30kg
CO ₂ equivalent (t)	0,0015	0,0026	0,0026	0,0039
Sound pressure level (1 m) dB(A)	42	43	44	47
Sound power level (EN 12102) dB(A)	57	57	58	62
Net weight (kg)	80	160	160	202
Operating pressure (low side) (MPa)	0,8			
Operating pressure (high side) (MPa)	3,0			
Unit dimensions (L × W × H) (mm)	1167×407×795	1287×458×928	1287×458×928	1250×540×1330
Packing dimensions (L × W × H) (mm)	1300×485×940	1420×540×1080	1420×540×1080	1380×570×1480
Compressor	HIGHLY			
Circulation pump	SHIMGE			
Operating ambient temperature (°C)	-25~43			
Number of fans	1	1	1	2
Fan motor type	DC motor			
Fan motor power range (min.–max.) (W)	55~105	60~120	60~120	30~80
Fan speed (RPM)	300~600	220~600	220~600	300~750
Water connection (inch)	1			
Maximum internal water pressure drop (kPa)	20	20	20	65
Circulation pump head at rated flow (kPa)	90	85	85	100
Casing material	Galvanized steel + ASA			
Recommended fuse rating	C16A	C25A	C10A	C16A