





U ENERGY

2024 New Design — R290 Full Inverter Heat Pump for Heating Cooling and DHW

Model(with built-in circulation pump)		U-Energy 9 kW	U-Energy 12 kW		U-Energy 15 kW	U-Energy 22 kW
						
Heating Condition - Ambient Temp.(DB/WB): 7/6°C, Water Temp.(In/Out):30/35 °C						
Heating Capacity Range (kW)		3.3~8.3	4.5~11.4		5.9~14.8	8.8~22.0
Heating Power Input Range(kW)		0.64~2.18	0.85~2.95		1.13~3.83	1.68~5.77
COP Range		3.81~5.17	3.86~5.29		3.86~5.22	3.81~5.24
DHW Condition-Ambient Temp.(DB/WB): 7/6°C, Water Temp.(In/Out):15/55 °C						
Heating Capacity Range (kW)		3.7~7.4	5.2~10.2		6.6~13.2	7.8~17.6
Heating Power Input Range(kW)		0.79~2.10	1.10~2.87		1.41~3.73	1.67~5.01
COP Range		3.52~4.69	3.55~4.71		3.54~4.67	3.51~4.66
Heated water output (L/H)		159	219		283	377
Cooling Condition - Ambient Temp.(DB/WB):35/24°C, Water Temp.(In/Out):12/7°C						
Cooling Capacity Range (kW)		2.4~5.8	3.3~8.2		4.3~10.8	6.2~15.3
Cooling Power Input Range(kW)		0.79~2.19	1.08~3.07		1.39~3.99	1.99~5.60
EER Range		2.65~3.04	2.67~3.06		2.71~3.10	2.73~3.12
Space Heating (According to EN14825:2022) Average Climate Water Outlet 35°C	Rated heat output (kW)	6.0	8.0		10.0	14.0
	Seasonal Space Heating Energy Efficiency (ηs)	182.7%	185.1%		180.8%	184.6%
	Seasonal Space Heating Energy Efficiency (SCOP)	4.64	4.70		4.60	4.69
	ErP Level	A+++	A+++		A+++	A+++
	Sound pressure level (dB(A)) at 1 meter	44	43		44	45
	Sound power level (dB(A))	58	57		59	60
Space Heating (According to EN14825:2022) Average Climate Water Outlet 55°C	Rated heat output (kW)	6.0	9.0		12.0	13.0
	Seasonal Space Heating Energy Efficiency (ηs)	136.0%	143.6%		134.7%	138.9%
	Seasonal Space Heating Energy Efficiency (SCOP)	3.48	3.66		3.44	3.55
	ErP Level	A++	A++		A++	A++
	Sound pressure level (dB(A)) at 1 meter	44	47		45	46
	Sound power level (dB(A))	58	61		59	62
Power supply		230V/1Ph/50Hz/60Hz			380V/3Ph/50-60Hz	

Max. power input(kW)	3.1	4.1		5.2	7.6
Max. current (A)	14.2	18.8		9.8	14.3
Fuse or circuit breaker (A)	20	25		16	20
Wire diameter mm ²	2.5mm ²	4mm ²		2.5mm ²	4mm ²
Diameter of pipe (mm)	DN25	DN25		DN25	DN25
Water Flow(m ³ /h)	1.43	1.96		2.55	3.78
Water Pressure Drop (max) kPa	30	35		40	45
Max water head(m)	9	9		9	12
Net Weight (kg)	112	120		138	170
Body size(W*D*H) (mm)	1080×460×820	1080×460×960		1080×480×1060	1080×480×1372
Packing size(W*D*H)(carton)	1100×490×960	1100×490×1110		1100×490×1210	1100×490×1510
Packing size(W*D*H)(Polywood)	1140×520×974	1140×520×1120		1140×520×1220	1140×520×1520
Loading quantity (carton)	48/96	48/96		24/96	24/48
Loading quantity (Polywood)	44/88	44/88		22/88	22/44
IP Grade (Level of protection)	IPX4	IPX4		IPX4	IPX4
Anti-electric shock Rate	I	I		I	I
Refrigerant	R290/1.0kg	R290/0.95kg		R290/1.45kg	R290/1.4kg
Compressor	Brand	HIGHLY	HIGHLY	HIGHLY	HIGHLY
	Model	WHP07600PSDPC9KQ	WHP10200PSDPC9KQ	WHP13300PSDPC8FQ	WHP32900VSKTQ9JK
Water pump	Brand	SHIMGE	SHIMGE	SHIMGE	SHIMGE
	Model	APM25-9	APM25-9	APM25-9	APF25-12
Operation Ambient Temp. (°C)					
Operating water temperature (°C)					
Operating water temperature (°C)					
Operating water temperature (°C)					
Remark:	Heating working condition: Inlet water temperature 30°C, Outlet water temperature 35°C, Dry bulb temperature 7°C, Wet bulb temperature 6°C. Cooling working condition: Inlet water temperature 12°C, Outlet water temperature 7°C, Dry bulb temperature 35°C, Wet bulb temperature 24°C. DHW working condition: Inlet water temperature 15°C, Outlet water temperature 55°C, Dry bulb temperature 7°C, Wet bulb temperature 6°C.				

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