

FAST DC INVERTER HEAT PUMP

QUICK WARMTH, INSTANT COOL

35°C 55°C
A+++ A+++

REFRIGERANT
R290

DC INVERTOR
EVI



R290 ATW HEAT PUMP

Heating, cooling and domestic hot water, full scenario applications



INTELLIGENT DEFROSTING LOGIC

Automatic and precise defrosting algorithm enhanced the performance in harsh conditions



NOISE REDUCTION TECHNOLOGY

Noise-reduction technology for serene comfort, sound pressure lower to 42dB(A).



ENERGY SAVING & COMFORTABLE

R290 refrigerant has no damage to the ozone layer, low global warming co-efficient, low energy consumption, can adapt to various refrigeration equipment.



ULTRA LOW TEMP. OPERATION

Maintain high COP and reliable stability



INTELLIGENT CONTROL SYSTEM

Control smart IoT devices via mobile app, using networks for remote operation and monitoring. Adjust heating or cooling anytime, anywhere, ensuring comfort upon return.



STRONG HEART

Panasonic DC Inverter+EVl compressor ensures high COP and levels up your experience in harsh climate



MASTERFUL HEAT EXCHANGE

SWEP plate heat exchanger. Rapid heating & cooling.

Model		KFCN-B10E/N6BP	KFCN-B14E/N6BP	KFCN-B14ET/N6BP	KFCN-B16ET/N6BP
Power Supply		220-240V 1PH~/50Hz	220-240V 1PH~/50Hz	380-415V 3PH~/50Hz	380-415V 3PH~/50Hz
Heating (A7/6°C,W30/35°C)	Heating Capacity	10kW	13.8kW	13.8kW	16.5kW
	COP	4.7W/W	4.6W/W	4.65W/W	4.8W/W
Heating (A7/6°C,W40/45°C)	Heating Capacity	10kW	14kW	14kW	16.8kW
	COP	3.75W/W	3.61W/W	3.64W/W	3.82W/W
Heating (A7/6°C,W47/55°C)	Heating Capacity	10kW	13.6kW	13.6kW	16.3kW
	COP	3.2W/W	3.05W/W	3.1W/W	3.2W/W
Cooling (A35/24°C,W23/18°C)	Heating Capacity	11kW	14.5kW	14.5kW	17kW
	EER	3.73W/W	3.76W/W	3.76W/W	3.87W/W
Cooling (A35/24°C,W12/7°C)	Heating Capacity	9kW	11.8kW	11.8kW	14kW
	EER	3.01W/W	2.92W/W	2.96W/W	3.04W/W
Seasonal space heating energy efficiency class	LWT at 35°C	A+++	A+++	A+++	A+++
	LWT at 55°C	A+++	A+++	A+++	A+++
Rated water flow (Floor heating/Radiator)		1.72m³/h, 1.10m³/h	2.37m³/h, 1.46m³/h	2.37m³/h, 1.46m³/h	2.84m³/h, 1.75m³/h
Start Current		0.8A	1.6A	0.9A	1.6A
Maximum input power(Heat pump)		4kW	5.2kW	5.2kW	6.15kW
Maximum input current (With E-heater)		31A	35.6A	15.7A	17.3A
High Pressure Value Cut-off Pressure		3.0Mpa	3.0Mpa	3.0Mpa	3.0Mpa
Low Pressure Value Cut-off Pressure		0.05Mpa	0.05Mpa	0.05Mpa	0.05Mpa
Compressor(DC inverter+EVI)		Panasonic	Panasonic	Panasonic	Panasonic
Plate heat exchanger		SWEP	SWEP	SWEP	SWEP
EEV		SANHUA / FUJIKOKI	SANHUA / FUJIKOKI	SANHUA / FUJIKOKI	SANHUA / FUJIKOKI
Fan motor (BLDC fan)		Match-Well / WELLING	Match-Well / WELLING	Match-Well / WELLING	Match-Well / WELLING
Water pump (built-in BLDC pump)		SHIMGE	SHIMGE	SHIMGE	SHIMGE
Refrigerant		R290	R290	R290	R290
Charging amount		0.95Kg	1.2Kg	1.2Kg	1.4Kg
Waterproof level		IPX4	IPX4	IPX4	IPX4
Sound power level		56dB(A)	59dB(A)	59dB(A)	63dB(A)
Max water outlet temperature		70°C	70°C	70°C	70°C
Diameter of Water Connection		DN 25 (1")	DN 25 (1")	DN 25 (1")	DN 25 (1")
Internal pressure drop at rating water flow		22kPa	27kPa	27kPa	31kPa
Min/Max heating water pressure (Safety valve 3Bar)		0.5/5bar	0.5/5bar	0.5/5bar	0.5/5bar
Lowest Operational Point, Outdoor Air (heating mode)		-25°C	-25°C	-25°C	-25°C
Highest Operational Point, Outdoor Air (heating mode)		43°C	43°C	43°C	43°C
Lowest Operational Point, Outdoor Air (cooling mode)		15°C	15°C	15°C	15°C
Highest Operational Point, Outdoor Air (cooling mode)		43°C	43°C	43°C	43°C
Net Dimensions (L/W/H)		1150/500/1025mm	1150/500/1025mm	1150/500/1025mm	1150/500/1360mm
Package Dimensions (L/W/H)		1220/580/1190mm	1220/580/1190mm	1220/580/1190mm	1220/580/1525mm
Net Weight		115Kg	133Kg	135Kg	158Kg
Gross Weight		130KG	152KG	153KG	174KG
Loading quantity 20GP/40GP,40HQ		17/37/74pcs	17/37/74pcs	17/37/74pcs	17/37/37pcs