Kwikpump

INDUSTRIAL HEAT PUMPS

KWIKOT

HEATS WATER

AT A 1/3

OF THE COST

INDUSTRIAL & COMMERCIAL HEAT PUMP SYSTEMS FOR HEATING WATER

Kwikpump
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working principle of a heat pump system

Electricity consumption is only used to transfer heat from the surrounding environment, such as air. The heat pump has the ability to absorb heat (not create heat) and transfer heat by means of refrigerant, which captures the heat in the ambient air and transfers it to heat water.

The fan on the heat pump circulates air through the outer evaporator that acts as a heat collector. The liquid refrigerant in the evaporator absorbs the available heat in the ambient air, transforming it into refrigerant. The refrigerant is then pumped into a compressor. When this warmed refrigerant is compressed, it intensifies or concentrates the heat, similar to a magnifying glass to the sun.

This intensely hot refrigerant is then pumped into a heat exchanger condenser where the actual heat transfer takes place. As the water passes through the heat exchanger, the hot gas gives up its heat to the cooler water. The refrigerant returns to a liquid state and is pumped through an expansion valve and then into an evaporator air coil, which starts the process all over again.

heat pumps

HP-007 (7.0kW)

HP-010 (10.0kW)

HP-011 (11.5kW)

HP-019 (19.0kW)

HP-022 (22.8kW)

HP-038 (38.0kW)

HP-045 (45.6kW)

HP-062 (62.0kW)

HP-091 (91.2kW)

heat pump product features

- Industrial and commercial application to heat large volumes of water.
- Works in all weather conditions and even at night.
- Micro-computer controlled with timer function, the heat pump automatically starts up and stops according to the water temperature and the set temperature setting.
- Super sized evaporator coil with high efficiency hydrophilic aluminium fin and inner grooved copper pipe, provides higher performance in cold weather conditions.
- High efficiency heat exchanger.
- Provides the same amount of hot water at a third of the cost.
- Environmentally friendly, free of pollutions thereby reducing global green house effects.

heat pump product specification data

				
Product Code	HP-007	HP-010	HP-011	HP-019
Heating Capacity	7.0kW	10kW	11.5kW	19.0kW
Rated Power Input	1.9kW	2.5kW	2.9kW	4.6kW
Rated Current	8.6 A	11.2 A	4.5 A	7.0 A
Hot Water Output	150lt/h	200lt/h	220lt/h	380lt/h
Net Weight	58kg	82kg	98kg	122kg
Dimensions (w x d x h) mm	885 x 360 x 600	930 x 420 x 795	820 x 690 x 870	820 x 690 x 1080
Noise Level	<50db (A)	<54db (A)	<54db (A)	<56db (A)
Water Connection	G 3/4”	G1”	G1”	G1”
Refrigerant Gas Weight	R407C/1.06kg	R407C/1.65kg	R407C/1.4kg	R407C/2.1kg
Power Supply	220V/1Ph/50Hz		380V/3Ph/50Hz	
Compressor Type	Rotary		Scroll/Copeland	
Fan Direction	Horizontal		Vertical	
Heat Exchanger	Tube in shell		Tube in shell	
Water Temperature	28° to 60°C		28° to 60°C	
Air Temperature	-10°C to 43°C		-10°C to 43°C	
Intelligent Defrosting	Yes		Yes	
Electronic Expansion Valve	Yes		Yes	
Waterproof Level	IPX4		IPX4	

					
Product Code	HP-022	HP-038	HP-045	HP-062	HP-091
Heating Capacity	22.8kW	38.0kW	45.6kW	62.0kW	91.2kW
Rated Power Input	5.7kW	9.3kW	11.5kW	18.2kW	24.0kW
Rated Current	10.0 A	18.1 A	20.0 A	36.0 A	40.0 A
Hot Water Output	500lt/h	750lt/h	1000lt/h	1330lt/h	2000lt/h
Net Weight	156kg	230kg	320kg	455kg	650kg
Dimensions (w x d x h) mm	820 x 690 x 1390	1500 x 750 x 1080	1500 x 750 x 1390	2135 x 904 x 1510	2212 x 1072 x 2187
Noise Level	<56db (A)	<60db (A)	<60db (A)	<65db (A)	<60db (A)
Water Connection	G1”	G1 1/4”	G1 1/4”	G3”	G3”
Refrigerant Gas Weight	R407C/2.4kg	R407C/2.1kg	R407C/2.4kg x 2	R407C/3.0kg x 3	R407C/2.4kg x 4
Power Supply			380V/3Ph/50Hz		
Compressor Type			Scroll/Copeland		
Fan Direction			Vertical		
Heat Exchanger			Tube in shell		
Water Temperature			28° to 60°C		
Air Temperature			-10°C to 43°C		
Intelligent Defrosting			Yes		
Electronic Expansion Valve			Yes		
Waterproof Level			IPX4		

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compressors

Copeland Scroll Compressor

Compressor

auxilliary components

Electronic Expansion Valve

Four-way Valve

Circulating Water Pump

product installation data

- The industrial heat pump is for an outdoor installation and the space for the installation must be well ventilated.
- The installation position should allow for water discharge from the heat pump.
- For a ground level installation, the surface area must be hard, smooth and even in order to prevent any vibration.
- The connecting of the heat pump to the electrical power source, must be undertaken by a qualified electrician. The electrical supply must meet the rated requirements for the heat pump. Do not use the mains power switch to control the switching on and off of the heat pump.

product warranty

- The industrial heat pump has a two year warranty from date of installation, providing that the warranty reply card has been correctly completed and submitted to Kwikot.
- The warranty only applies to defects, which have arisen solely due to faulty materials and workmanship during the manufacturing process.
- The warranty on the installation is carried by the installer.

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