

# Kwikpump

**DOMESTIC HEAT PUMPS**



*heats water at a third of the cost*

DOMESTIC ELECTRIC HEAT PUMP SYSTEM FOR WATER HEATERS — 3.5KW, 5.2KW & 7.0KW

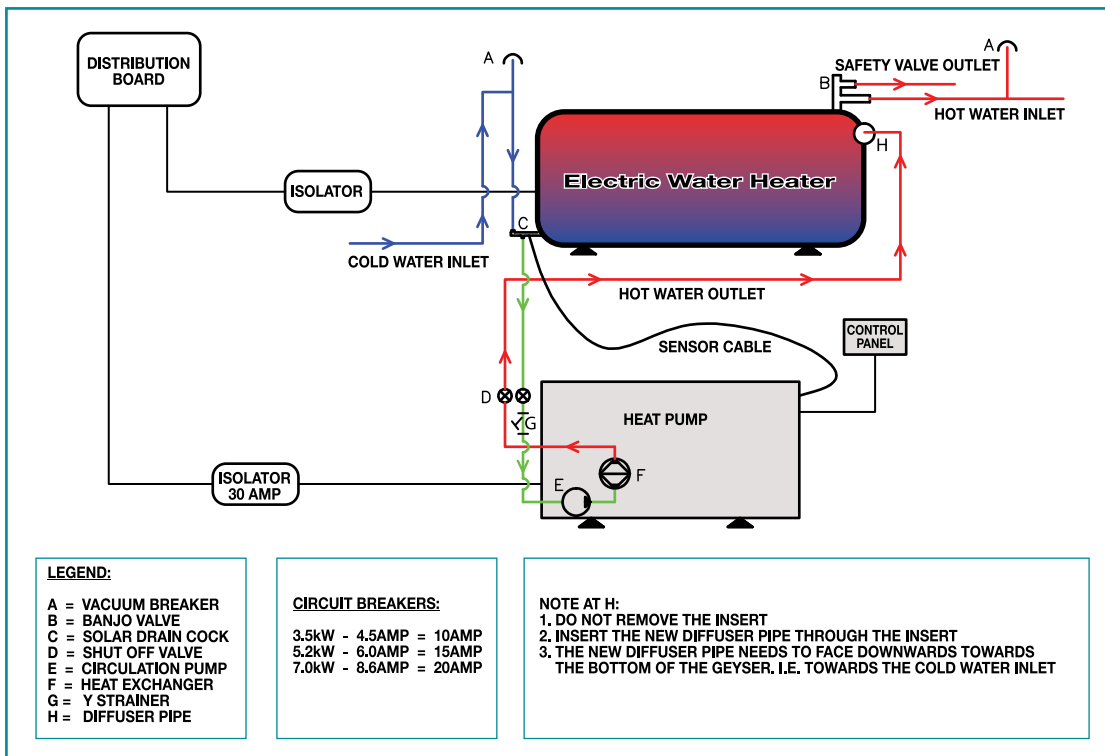
### working principle of a heat pump system

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.

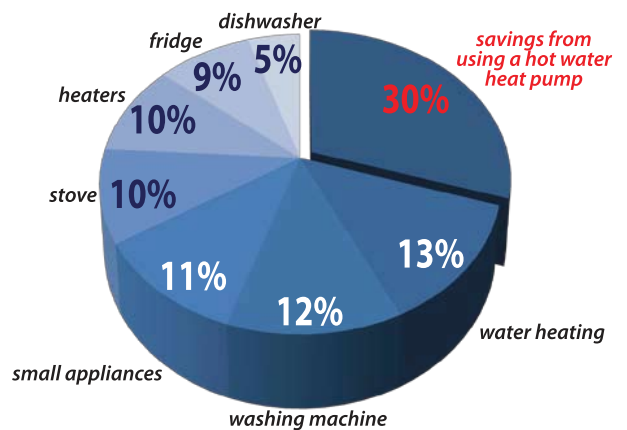
This intensely hot refrigerant is then pumped into a heat exchanger condenser where the actual heat transfer takes place. As the water passes through the heat exchanger, the hot gas gives up its heat to the cooler water. The refrigerant returns to a liquid state and is pumped through an expansion valve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

### installation diagram of a heat pump system



### heat pump energy saving

Heat pumps are one of the most efficient hot water heating systems available, as they utilise the solar heat stored in the surrounding environment. This free environment energy provides approximately 75% of the heat pumps heating energy and only approximately 25% of external energy is required in the form of electricity, in order to achieve a heat output of 100%.





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## HEAT PUMPS

### heat pump product features

- Domestic application in households to heat water in electric geysers and solar water heaters.
- Can be used for other applications where hot water is readily used, such as hairdressing salons and spas.
- 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, provide higher performance in cold weather conditions.
- High efficiency heat exchanger.
- Provides the same amount of hot water at a third of the cost than other water heaters.
- Environmentally friendly, free of pollutions thereby reducing global green house effects.



### heat pump product specification data

DOMESTIC HEAT PUMPS			
<b>Product Code</b>	GT-SKR010B-07	GT-SKR015B-07	GT-SKR020B-07
<b>Heating Capacity</b>	3.5kW	5.2kW	7.0kW
<b>Water Heater Size</b>	100/150lt	200/250lt	up to 450lt
<b>Rated Power Input</b>	1kW	1.55kW	1.8kW
<b>Rated Current</b>	4.5 A	6.0 A	8.6 A
<b>Hot Water Output</b>	75lt/h	110lt/h	150lt/h
<b>Net Weight</b>	48kg	55kg	58kg
<b>Dimensions</b>	885mm x 360mm x 600mm		885mm x 360mm x 600mm
<b>Power Supply</b>	220-240V/1P/50Hz		220-240V/1P/50Hz
<b>Fan Direction</b>	Horizontal		Horizontal
<b>Heat Exchanger</b>	Shell and Tube		Shell and Tube
<b>Refrigerant Gas</b>	R407C		R407C
<b>Max. Water Temp.</b>	55°C		55°C
<b>Air Temperature</b>	-10°C to 43°C		-10°C to 43°C
<b>Water Connection</b>	3/4" BSP Female		3/4" BSP Female
<b>IPX Rating</b>	IPX4		IPX4
<b>Intelligent Defrosting</b>	Yes		Yes
<b>Electronic Expansion Valve</b>	Yes		Yes
<b>Noise Level</b>	<50db (A)		<56db (A)

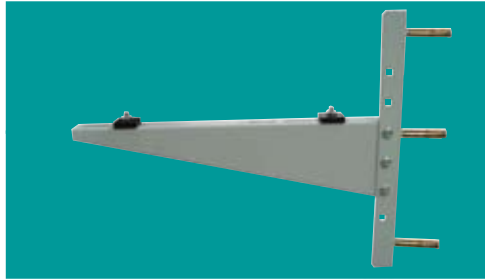


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HEAT PUMPS

## product installation data

- The 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 heat pump can alternatively be installed on a wall by using the provided wall mounting brackets and components.
- The connecting of the heat pump to the electrical power source, must be undertaken by a qualified electrician. Offer a separate power point, which meets 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.



Assembled Wall Bracket

- The following components are to be installed in the installation:



Safety Combination Valve



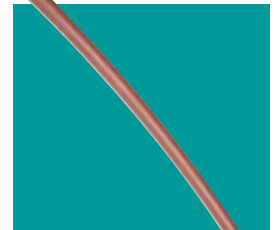
Draincock Combination Valve



2 X Lever Ball Valves



Y-Strainer



Diffuser Pipe

## product warranty

- The heat pump has a two year warranty period 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.
- If any component fails over the warranty period, the heat pump will be removed from the installation and be taken away for repair and then re-installed once the repair work has been carried out. The piping from the heat pump to the water heater will be sealed off by the technician, so that the water heater can operate without the heat pump.
- The warranty on the installation is carried by the installer.

## kwikot branch contact details and website address

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