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A Kwikot Kwikpump Integrated Domestic Heat Pump is a combination of a hot water cylinder without a conventional electric element and with an energy-efficient heat pump mounted on top of the cylinder. The primary use is for domestic household application and also to supply hot water to small businesses such as hairdressing salons and spas. Available in 200lt and 300lt units.

integrated heat pump product features

- The inner cylinder is manufactured from Duplex Stainless Steel, providing longevity and hygiene.
- Polyurethane insulation between the inner cylinder and outer casement reduces heat loss.
- · Aesthetically appealing appliance white casement.
- A vertical air discharge heat pump with highly efficient heat exchanger.
- Includes a micro-computer with timer and temperature functions, which automatically starts and stops the heat pump according to the water temperature and the timer setting.
- Space saving due to the integration of the cylinder and heat pump.
- Works in all weather conditions and at night.
- Environmentally friendly thereby reducing global greenhouse effects.

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working principle of an integrated 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 a refrigerant, which captures the heat in the ambient air and transfers it to heated 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 gaseous refrigerant. The refrigerant gas is then pumped into a compressor. When this warmed refrigerant gas is compressed, it intensifies the heat.

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.

integrated 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 environmental 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%.



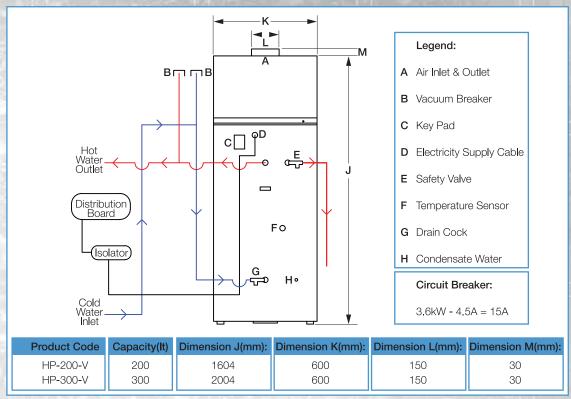




installation data of an integrated heat pump system

- Because the Integrated Heat Pump uses less than a third of the energy of a normal electric water heater (geyser), it qualifies for installation in terms of SANS 10400XA.
- The Integrated Heat Pump must be well ventilated and installed undercover, ensuring that rain water does not fall into the air inlet/outlet.
- The installation position should allow for condensate water discharge from the heat pump.
- The ground surface area must be hard, smooth and even, in order to prevent any vibration
- The connection of the heat pump to the electrical power source, must be done by a qualified electrician.
- The heat pump is supplied with a 400kPa Safety Valve (T & P Valve) and Drain Cock.

installation diagram of an integrated heat pump system



product warranty

- The period of guarantee is from the date of installation providing that documentation of proof of installation is furnished, or alternatively from date of manufacture as determined from the manufacturer's data plate.
- The heat pump component has a two year warranty period.
- The inner stainless steel cylinder of the hot water component, has a five year warranty period.
- The warranty only applies to defects, which have risen solely due to faulty materials and workmanship during the manufacturing process.
- If any component fails and cannot be repaired on site, the integrated heat pump will be removed and taken away for repair and then re-installed once the repair work has been carried out.
- The warranty on the installation is carried by the installer.



heat pump product specification data

KWIKOT INTEGRATED HEAT PUMP WATER HEATER

Product Code

Cylinder/Tank Capacity

Power supply

Heating capacity

Max input current

Max input power

Rated current

Rated input power

Compressor input power

Max exhaust pressure of Compressor

Max suction pressure of Compressor

Max working pressure of heat exchanger

Allowable pressure of system

Refrigerant

Fan type

Inner cylinder

Degree of protection

Earth requirement

Water connection

Duct connection

Noise level

Size

Net weight

Hot water temp, range/Default

Working ambient temperature

HP-200-V

200lt

220-240V/50Hz/1Ph

3.6kW

5.5A

1.2kW

4.1A

0.9kW

0.86kW

2.85MPa

0.7MPa

3.0MPa

3.0MPa

R134a/ 1.5kg

Vortex

Duplex stainless steel

IPX4

≤0.1Ω

G3/4"

Φ150mm

≤55dB(A)

Ф600x1604mm

91kgs

28-75°C/60°C

-7~43°C

HP-300-V

300lt

220-240V/50Hz/1Ph

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1.2kW

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