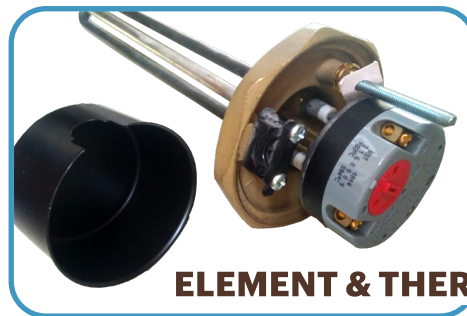


GOING GREEN  
GIVES YOU THE POWER TO SAVE



**Kwikpump**  
*INTEGRATED DOMESTIC HEAT PUMPS*



**ELEMENT & THERMOSTAT KIT**

HEATS WATER AT **1/3** OF THE **COST**



A KWIKOT INTEGRATED DOMESTIC HEAT PUMP IS A COMBINATION OF A HOT WATER CYLINDER WITH 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.

## HOW DOES IT WORK

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.

## 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 EVEN AT NIGHT.
- ENVIRONMENTALLY FRIENDLY, THEREBY REDUCING GLOBAL GREENHOUSE EFFECTS.
- FOR MAINTENANCE PURPOSES, THE GEYSER AND HEAT PUMP CAN BE SEPARATED.



AVAILABLE IN  
200LT AND 300LT

## ENERGY SAVING

HEAT PUMPS ARE 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%.

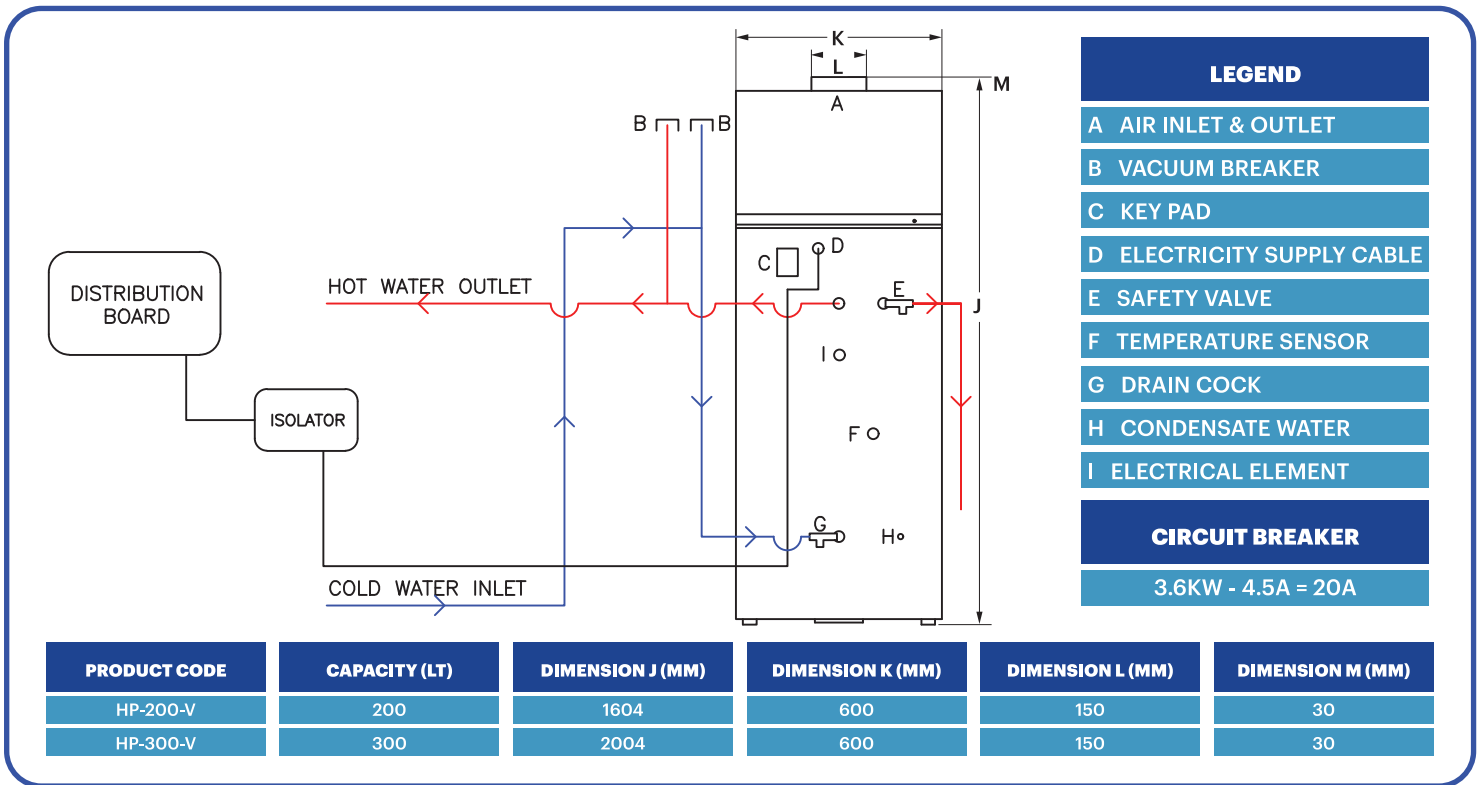


MICRO-COMPUTER  
WITH TIMER FUNCTION

# REQUIRMENTS OF AN INTERGRATED 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 & ELEMENT 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



## PRODUCT WARRANTY

- THE PERIOD OF THE WARRANTY IS FROM THE DATE OF INSTALLATION PROVIDING THAT DOCUMENTATION OF PROOF OF INSTALLATION IS FURNISHED, OR ALTERNATIVELY FROM THE DATE OF MANUFACTURE, AS DETERMINED FROM THE MANUFACTURER'S DATA PLATE.
- THE HEAT PUMP COMPONENT HAS A FIVE 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, THEN RE-INSTALLED ONCE THE REPAIR WORK HAS BEEN CARRIED OUT.
- THE WARRANTY ON THE INSTALLATION IS CARRIED BY THE INSTALLER.

# PRODUCT SPECIFICATIONS

| <b>KWIKOT INTEGRATED HEAT PUMP WATER HEATER</b> |                             |                             |
|---|-----------------------------|-----------------------------|
| <b>FACTORY MODEL NO.</b>                        | <b>GT-SKR010C200-V</b>      | <b>GT-SKR010C300-V</b>      |
| <b>KWIKOT MODEL NO.</b>                         | <b>HP-200-V</b>             | <b>HP-300-V</b>             |
| WATER TANK VOLUME                               | 190L                        | 270L                        |
| POWER SUPPLY                                    | 220-240V/50HZ/1PH           | 220-240V/50HZ/1PH           |
| HEATING CAPACITY                                | 3.6KW                       | 3.6KW                       |
| MAX INPUT CURRENT                               | 5.5A                        | 5.5A                        |
| MAX INPUT POWER                                 | 1.2KW                       | 1.2KW                       |
| RATED CURRENT                                   | 4.1A                        | 4.1A                        |
| RATED INPUT POWER                               | 0.9KW                       | 0.9KW                       |
| COMPRESSOR INPUT POWER                          | 1.5KW                       | 1.5KW                       |
| ELEMENT kW RATING                               | 0.86KW                      | 0.86KW                      |
| MAX EXHAUST PRESSURE OF COMPRESSOR              | 2.85MPA                     | 2.85MPA                     |
| MAX SUCTION PRESSURE OF COMPRESSOR              | 0.7MPA                      | 0.7MPA                      |
| MAX WORKING PRESSURE OF HEAT EXCHANGER          | 3.0MPA                      | 3.0MPA                      |
| ALLOWABLE PRESSURE OF SYSTEM                    | 3.0MPA                      | 3.0MPA                      |
| REFRIGERANT                                     | R134A/ 1.5KG                | R134A/ 1.5KG                |
| FAN TYPE  | VORTEX                      | VORTEX                      |
| INNER CYLINDER                                  | DUPLEX STAINLESS STEEL 2205 | DUPLEX STAINLESS STEEL 2205 |
| DEGREE OF PROTECTION                            | IPX4                        | IPX4                        |
| PROTECTION AGAINST ELECTRIC SHOCK               | I                           | I                           |
| EARTH REQUIREMENT                               | ≤0.1Ω                       | ≤0.1Ω                       |
| WATER CONNECTION                                | G3/4"                       | G3/4"                       |
| DUCT CONNECTION                                 | Φ150MM                      | Φ150MM                      |
| NOISE LEVEL                                     | ≤55DB(A)                    | ≤55DB(A)                    |
| SIZE  | Φ600X1603MM                 | Φ600X2004MM                 |
| NET WEIGHT                                      | 91KGS                       | 101KGS                      |
| HOT WATER TEMP. RANGE/DEFAULT                   | 28-75°C/60°C                | 28-75°C/60°C                |
| WORKING AMBIENT TEMPERATURE                     | -7°C-43°C                   | -7°C-43°C                   |



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