

Hot Water Supply  
Whenever you require  
As much as you require

**KRISTHERM**  
DOMESTIC

**75% Power Saving**

Power Efficient

Hot Water Generation up to 55°C

Weather Independent operation

Eco Friendly - Compact Design

*For Jacuzzi, Rain Water Shower, Daily Bath & Kitchen requirements*



75%  
POWER SAVING



**KEHEMS**  
TECHNOLOGIES



## Why Choose A Hot Water Heat Pump?

Hot water usage accounts for up to 30% of annual power bill. Hot Water Heat Pump can provide energy efficient solutions for all applications where water is heated.

Heat Pump is fast replacing the equipments like electric Geysers etc. These equipments have COP of Less than 1, while Heat Pump requires 30 to 40% Energy for Hot water Generation. Heat Pumps have COP of more than 5 which means Heat Pumps are 5 times more efficient than other equipment.

## Why KRISTHERM Heat Pump?

KRISTHERM Hot Water Heat Pumps are extremely energy efficient and can achieve 3 to 4 COPs; meaning they can produce 3-4 kW of heat for every 1kW consumed.

### Energy Efficiency

Hot water heat pumps offer the highest levels of energy efficiency with the ability to provide 3-4kW of heat energy for every 1kW used.

### Eco Friendly

KRISTHERM Heat Pumps are one of the most efficient ways to heat water all year round. A highly efficient system is environmentally friendly providing heat even in cold outdoor temperatures. The R410A refrigerant has zero ozone depletion potential.

### Convenient Controls

Hot water heat pump supply hot water which delivers radiant heat energy to potable water system. Easy to use controls allow you to adjust temperature settings at the touch of a button.

### Lowest Running Cost

The more energy efficient a heating system is, the cheaper it is to run. Hot water heat pumps offer the cheapest available kW/h rate for hot water heating.

### Safety

Hot water heat pumps are the perfect option as there are no direct electrical water heating or hot surfaces; they are an extremely safe option.

### Year Round Performance

Hot water heat pumps provide energy efficient water heating year round, operating effectively in both high and low outdoor ambient temperatures.

### Maintenance Free

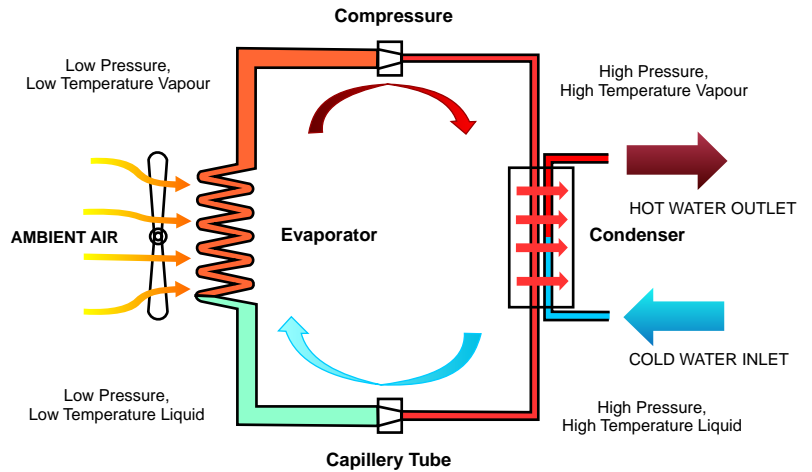
Compared to traditional water boilers, KRISTHERM heat pumps are maintenance free: fuel deliveries, disposal of ashes, chimney cleaning are eliminated.



## How Does Heat Pump Work

Heat pump is a technologically advanced system adjusted to make use of renewable energy sources. Hot Water Heat Pump works on a similar principal of a refrigerator; absorb energy from the surrounding air and transfer into refrigerant. The heat energy is upgraded using a refrigerant cycle and this renewable energy is transferred into the water.

For more clarity the operation of Heat Pump for Waste Heat Recovery is explained in the schematic diagram:



### APPLICATION

Hot water heat pumps can be installed for a range of applications, for your Jacuzzi, Spa, Rain Water Shower, Daily Bath & Kitchen requirements.

For all your Hot Water requirements in Hotels, Restaurants, Hostels, Hospitals, Process Industry and Swimming Pool to Spa Pool heating. 3 to 4 times power consumption can be reduced.



## Technical Specifications

-Heating Capacity -Power Consumption -COP -Refrigerant -Max. Hot Water Outlet Temp. -Water Temp. Range -Operating Ambient Temp. Range	3.55 KW 0.95 KW 3.74 R-134a 55°C 25 to 55°C 4°C to 40°C	-Control Panel -Control Panel Display -Increase/ Decrease Button -Power ON/OFF Button -Temp. Display Button -Error Display	Microprocessor Yes Yes Yes Yes Yes
-Compressor Type -Compressor Quantity -Condenser Type -Condenser Number -Cooling Rejection Heat Exchanger Type -Cooling Rejection Fan	Rotary Hermatic One Copper Tube Coil in Tank One Aluminum Fins with Copper Tubes Axial Fan	-Tank inbuilt 50 Ltr GI Tank -Tank Working Pressure/ Testing Pressure -Power Supply -Water Discharge -Water connection Type/ Size	Food Grade Paint 3 Bar/ 4.5 Bar  Single Phase 100 Ltrs. / hour Socket/ 42"

### Heat Pump Benefits:

- Green and Eco Friendly Technology.
- Saves Energy Cost by 60 to 70%.
- Combustion Free Technology.
- Reduces CO2 emissions.
- Reduction in Global warming.
- Low Maintenance Cost.
- Replaces consumption of Fossil Fuels, Thus offer Energy Security.
- Safe Technology and No Government approvals needed.
- Most efficient technology worldwide.
- Recognized by ECBC & BEE as energy saving device.

### DIMENSIONS

Tank Capacity Ltr	Width (W) mm	Length (L) mm	Height (H) mm	Empty Weight kg	Operating Weight kg
50	460	460	950	75	125
100	460	460	1355	110	210
150	460	460	1760	115	265
200	580	580	1485	125	325
250	580	580	1760	135	385



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