



**GB Energy solutions**

WE SOLVE IT



**24X7  
HOT WATER  
GUARANTEED!**

**Delivering High Quality  
Renewable Energy Solutions**

# VULCAN HEAT PUMPS

**By Brihat Energy Pvt Ltd**

Brihat Energy presents a comprehensive line of heat pump solutions that will deliver hot water reliably and efficiently for your daily needs. Our heat pumps service a wide variety of applications including residential bathing, swimming pool heating, industrial heating, hot water cooking, centralised heating, laundry applications and more.

Switch to Brihat Energy as we turn on the heat!



High efficiency designs that reduce costs by 75%



Long product life with guaranteed payback



Easy to install and maintain



Low noise & vibrations



# MONOBLOCK HEAT PUMPS

These plug and use heat pumps come with an in-built circulation pump. Built to last, they can be connected with storage tanks and serve domestic and residential applications.

## KEY FEATURES -

- Panasonic (Highly efficient rotary compressor)
- Automatic defrosting
- Low noise & vibration
- Inbuilt water pump
- Closed loop system possible
- Intelligent control
- Heat Pump capacities available are from 3.5 kW to 9.8 kW
- Rated Hot Water Output ranges from 75 LPH - 210 LPH
- Max Temperature Output 60°C.

# ALL IN ONE & ALL IN ONE PLUS HEAT PUMPS

A line of efficient heat pumps that come with built-in glass enamelled hot water storage tanks and a backup heating element. A compact design that works well for domestic/residential applications with space constraints, where additional external storage can be avoided.



## KEY FEATURES -

- Highly efficient rotary compressor
- 2kW electrical heating element
- External aluminium coil
- Centrifugal fan motor
- Electronic expansion valve
- Security protection: IP\*4
- TP valve for more guarantee
- Low/high pressure protection system
- Magnesium anode
- Fins-coil with hydrophilic aluminium foil
- Intelligent defrosting
- Heat Pump capacities available are 1.8kW, 2.8 kW & \*5.3 kW
- Rated Hot Water Output ranges from 39 LPH - 60 LPH & \*118 LPH
- Glass Lined Tank Storage options : 150/200/250/300 Litres & \*350/420 litres
- Max Temperature Output 60°C & \*75°C.

*Note: Asterisk sign (\*) - The specs are for All In One Plus Heat Pump*



# COMMERCIAL HEAT PUMPS

This series has robust and high performance Air source heat pumps suitable for centralized heating in villas, hotels, educational institutions, Kitchens, factories, food industries etc.

## KEY FEATURES -

- Heat Pump capacity ranges from 11 kW to 180 kW.
- C.O.P. is 4.2
- American Copeland scroll compressor
- Stainless steel brazed plate heat exchanger
- American Emerson expansion valve
- Wide ambient range -7 to 45°C
- Automatic defrosting
- Low noise and vibration
- Stable running, safe and reliable



# SWIMMING POOL / SPA HEAT PUMPS

This series heat pump has an inbuilt titanium heat exchanger and is specially designed to achieve and maintain comfort temp. in swimming pool and Spa at an expense of fraction of power input.

## KEY FEATURES -

- Heat Pump capacity ranges from 13.5 kW to 220 kW
- C.O.P. is 4.8
- American Copeland scroll compressor
- Titanium tube in PVC shell heat exchanger / Titanium tube in tube heat exchanger
- Emerson thermal expansion valve
- Intelligent defrosting
- Easy installation and operation
- Stable running, economic and durable
- Cooling in summer and heating in winter



# HIGH TEMPERATURE HEAT PUMPS

*(Commercial & Industrial Use)*

## KEY FEATURES -

- Water outlet temperature up to 75/80°C.
- Capacity available up to 200 kW
- Higher capacity models available on request
- Wide ambient range -7 to 45°C
- Environment friendly green refrigerant
- Top brand scroll / screw compressor
- Modbus connectivity
- Protective system with thermostat, pressure switch & overload protector
- Flow monitoring



# WATER SOURCE HEAT PUMPS

Water source heat pumps use water as heat source and provides hot water on one side/ condenser side and cold water on other side / evaporator side. Double benefit of hot water generation on one side and chilled water byproduct on the other side resulting in off loading the main chiller to a reasonable extent. Heat pumps are easy to install & maintain. Standard capacity range available up to 200 kW: higher capacity available on specific request.

## KEY FEATURES -

- Hot water outlet temp. 60 °C
- Chilled water outlet temp. 7 °C
- Environment friendly refrigerant
- Compact size as no air fans
- Automatic controls
- Touch screen multi-functional controller
- Efficient scroll compressor
- Highly efficient shell and tube heat exchanger

## BENEFITS -

- Reduced water heating costs upto 75%
- Quick payback and return on investment
- Reliable hot water round the year
- Reduced carbon emissions
- Silent operations
- Negligible maintenance costs

# AIR SOURCE DRYER



Heat Pump (air source) dryers removes moisture from food to aid in its preservation by inhibiting various bacteria from growing and spoiling food. Thus, these dryers are used to preserve and extend the shelf life of various foods at the expense of a nominal power input as compared to the electric heating and gas dryers.

## KEY FEATURES -

- Moisture removal capacity range – 15 kg / hr to 44 kg / hr
- Heat Pump capacity range – 14 kW to 54 kW.
- Max .outlet air temp. - 80 °C
- Low noise and vibration.

