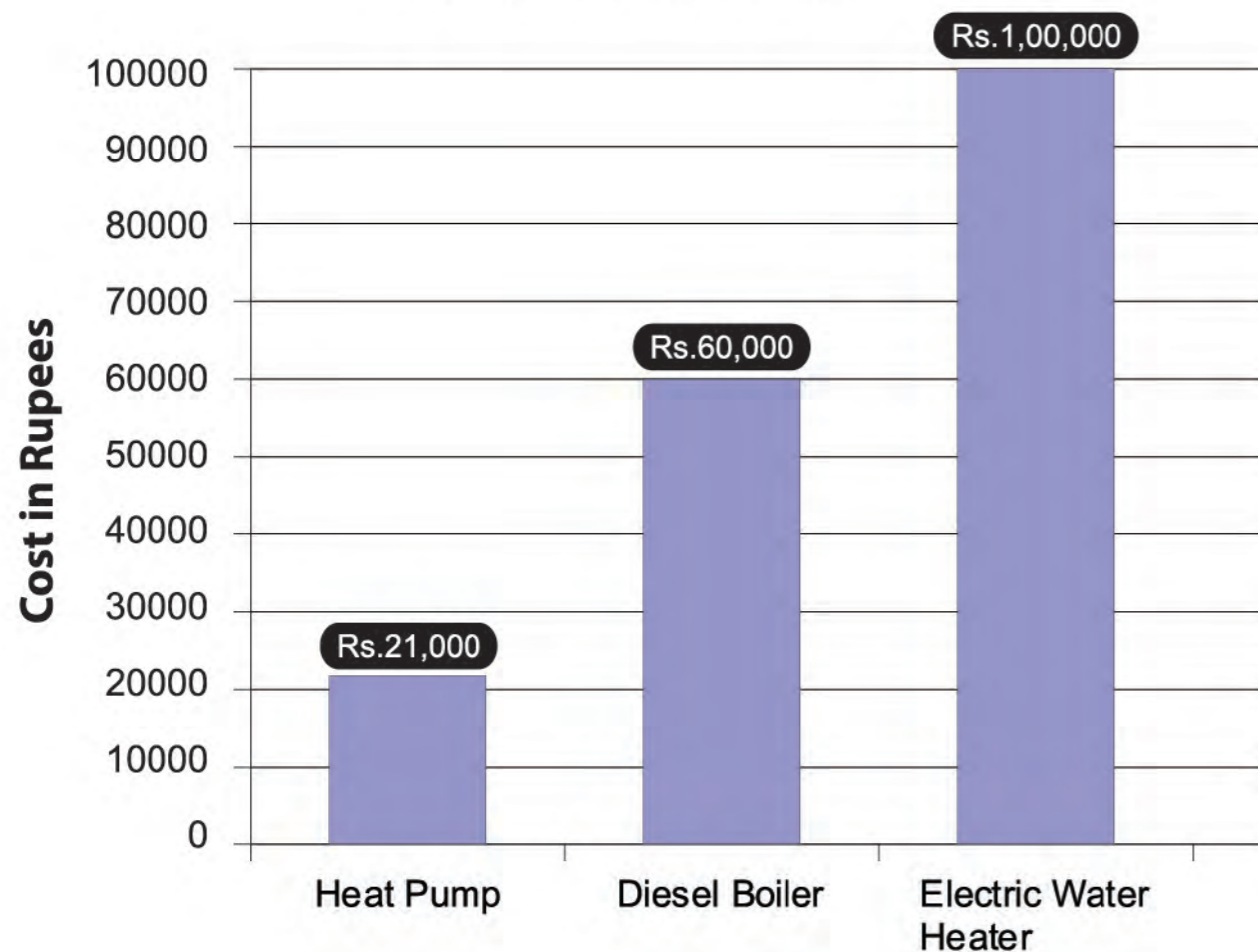


ANNUAL HEATING EXPENSES

(for 1000 Litres per day)



VENUS HOME APPLIANCES (P) LTD.

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Rajiv Gandhi Salai (OMR), Kottivakkam,
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Website: www.heatpumpwaterheaters.co.in

P/N - 600073 - 9 / 2014

wake up to warmth



Heat Pump Water Heaters

Hot water all day long at the
lowest operating cost

Presenting domestic models for the first time in India.



VENUS HEAT PUMPS

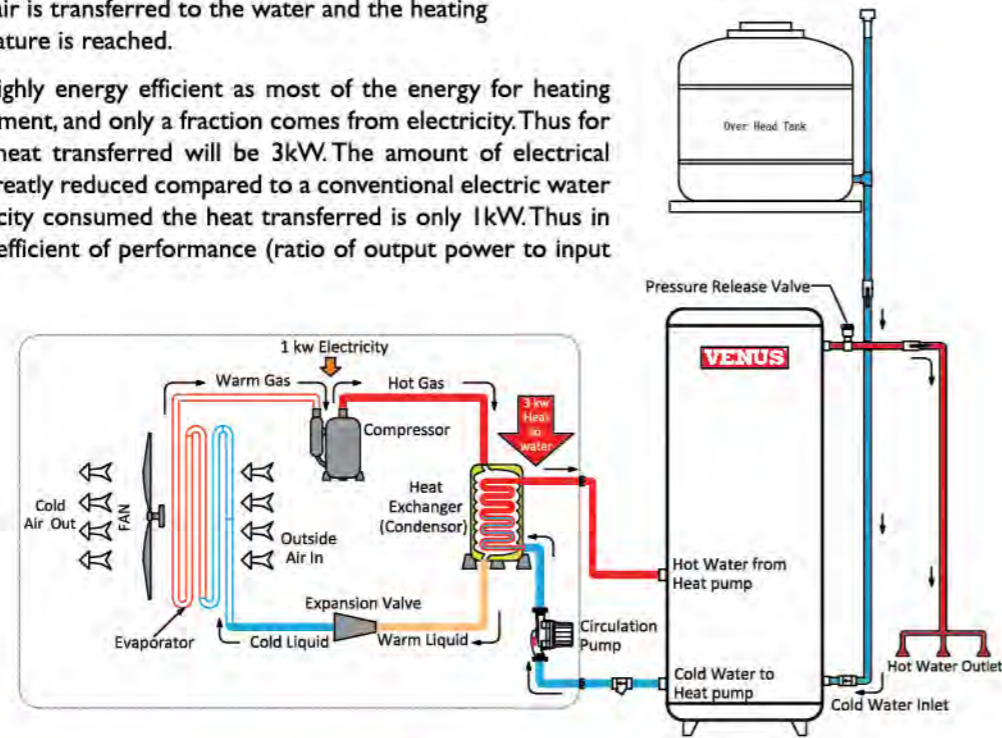
Venus introduces Heat Pump Water Heaters for the first time in India. Using renewable energy heat sources from the ambient air to heat water, these heaters can provide hot water round-the-clock and throughout the year in an energy-efficient and affordable way. Venus Heat Pump Water Heaters are the right solution for domestic hot water applications.

HOW DOES A HEAT PUMP WORK

Major components of a heat pump water heater include a compressor, a refrigerant, two heat exchangers (a condenser and an evaporator) and an expansion valve.

- The operation begins with air being forced through an evaporator which contains a liquid refrigerant, with the help of a fan.
- This refrigerant evaporates to a gas and extracts heat from the ambient air.
- The warm gaseous refrigerant then passes through the compressor, which increases its pressure and it becomes a hot gas.
- This hot gas enters a heat exchanger (condenser) and transfers its heat to the water inside a storage tank.
- The refrigerant cools down in the condenser and becomes a warm liquid.
- It then passes through an expansion valve and becomes a cool liquid and enters the evaporator again.
- The cycle is then repeated in this manner.
- Thus heat absorbed from the air is transferred to the water and the heating continues till the desired temperature is reached.

Heat pump water heaters are highly energy efficient as most of the energy for heating comes from the external environment, and only a fraction comes from electricity. Thus for 1kW electricity consumed the heat transferred will be 3kW. The amount of electrical energy needed to heat water is greatly reduced compared to a conventional electric water heater in which, for 1kW electricity consumed the heat transferred is only 1kW. Thus in heat pump water heaters the coefficient of performance (ratio of output power to input power) can be as high as 4.



ADVANTAGES OF A HEAT PUMP WATER HEATER:

- Very low operating cost - 80% of an Electric Water Heater. Lower running cost than boilers (75% lower) or solar water heaters (25% lower).
- High energy efficiency – Coefficient of performance (ratio of output power to input power) can be as high as 4.
- Compact size and ease of installation. Can be installed in any convenient location.
- Continuous hot water supply - Uninterrupted operation during night time, on rainy days and even on cold days. Works in any kind of weather and all seasons.
- Can be scaled to meet requirements from individual villas to large commercial installations.
- Reliable and durable - Can last for years with little or no maintenance.
- Simple Operation - Temperature and time options can be preset on the intelligent digital controller.

DOMESTIC RANGE:

Get non-stop hot water in seconds anywhere in the house using a Venus Heat Pump Water Heater, while saving as much as 75-80% on your heating costs. The Heat Pump absorbs energy from the atmosphere to heat water round-the-clock, irrespective of the weather. A solitary heat pump installed anywhere in the house can supply hot water to all the bathrooms and kitchens.

- Available in 100 and 200 litres
- Split type system for flexible installation - external and internal units
- Rugged and reliable rotary compressor from Panasonic
- High energy efficiency - COP of 4
- Intelligent automatic LCD controller to set temperature and time options
- Stainless steel 304 grade tank for water storage to withstand corrosion
- Utilizes as low as 0.9 kW input; delivers heat output up to 3.71 kW (for VDH 100 model)
- High rated pressure of 7 bars - designed to work with pressure pumps
- Can be combined with a circulation pump to deliver hot water within seconds anywhere in the house

APPLICATIONS

Domestic range heat pump water heaters can be used at Individual Villas, Houses, Small Establishments etc.

KEY FEATURES/MAIN COMPONENTS:

- Compressor - heart of the heat pump
- Condenser
- Evaporator
- Expansion valve
- Intelligent Electronic controller
- Weather resistant cabinet



VDH200W

DOMESTIC RANGE - SPECIFICATIONS:

| Model | | VDH200W |
|--------------------------------------|---------|-------------------|
| Rated Heating Capacity | kW | 3.6 |
| COP | | 4.4 |
| Rated Hot Water (55°C) Output Volume | L/h | 75 |
| Rated input power | W | 900 |
| Rated input current | A | 4.1 |
| Power supply | V/Ph/Hz | 220~240V~1PH~50Hz |
| Rated outlet temperature | °C | 55 |
| Maximum outlet water temperature | °C | 60 |
| Maximum power input | kW | 1.26 |
| Ambient temperature | °C | -7°C ~ +43°C |
| Fan discharging | | Horizontal |
| Noise level | dB(A) | 50dB(A) |
| Compressor type | | Rotary x1 |
| Cabinet | | Powder Coated |
| Refrigerant / Charge quantity | | R410A/0.75kg |
| Product dimension | | A B C |
| | mm | 560 x 1000 x 365 |
| Cycle water flow | L/min | 22.2 L/min |
| Net weight | kg | 47 |