

Heat Pump Water Heaters

Round the clock hot water at the lowest cost

Energy-efficient, easy to use and perfect for your home.

Domestic Range



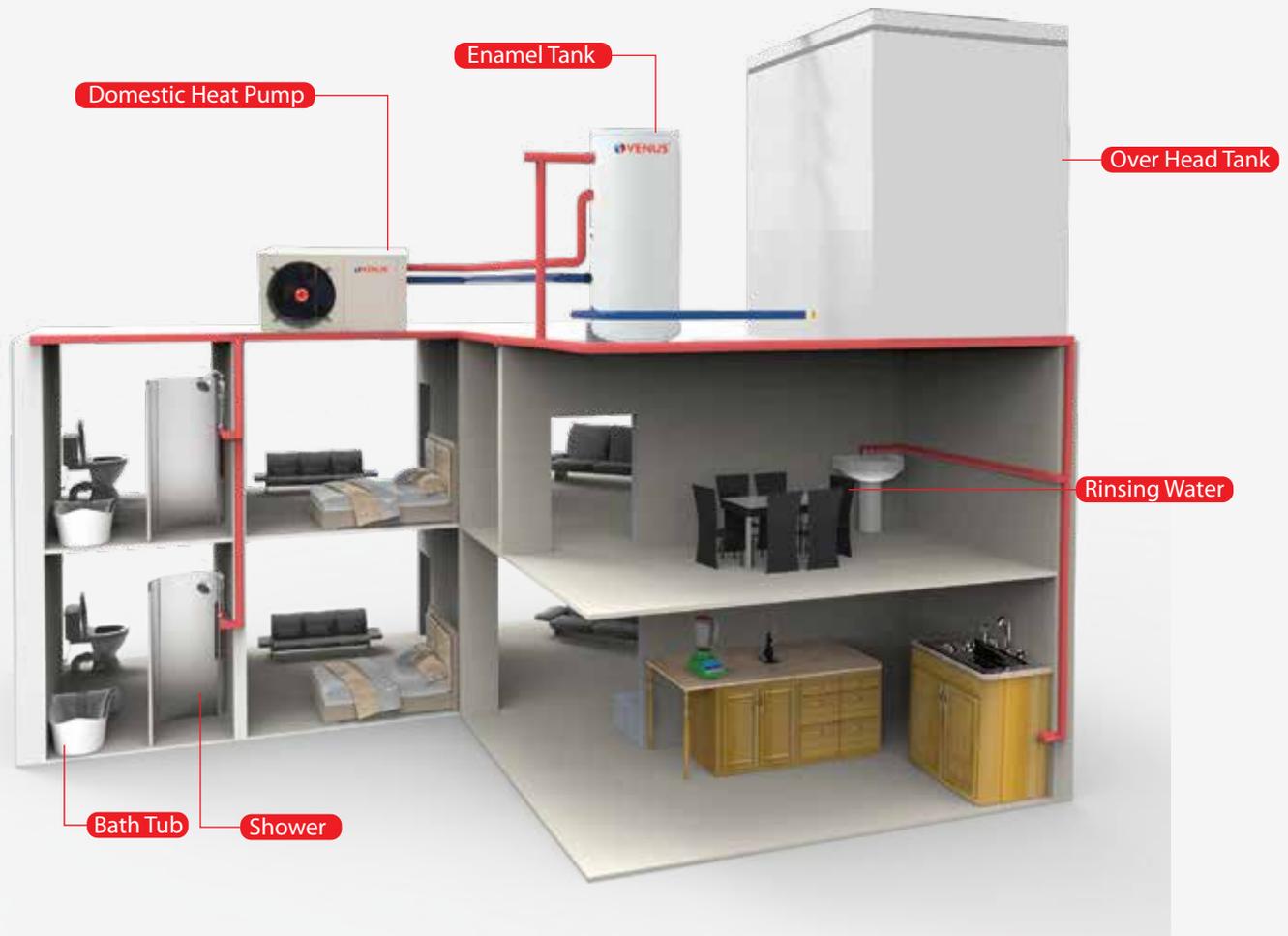
 **VENUS**TM

VENUS HEAT PUMPS

Venus introduces Heat Pump Water Heaters 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.

HEAT PUMP Domestic

Get non-stop hot water anywhere in the house while saving as much as 75-80% on your heating costs. A solitary heat pump installed anywhere in the house can supply hot water to all the bathrooms and kitchens.



APPLICATIONS



House



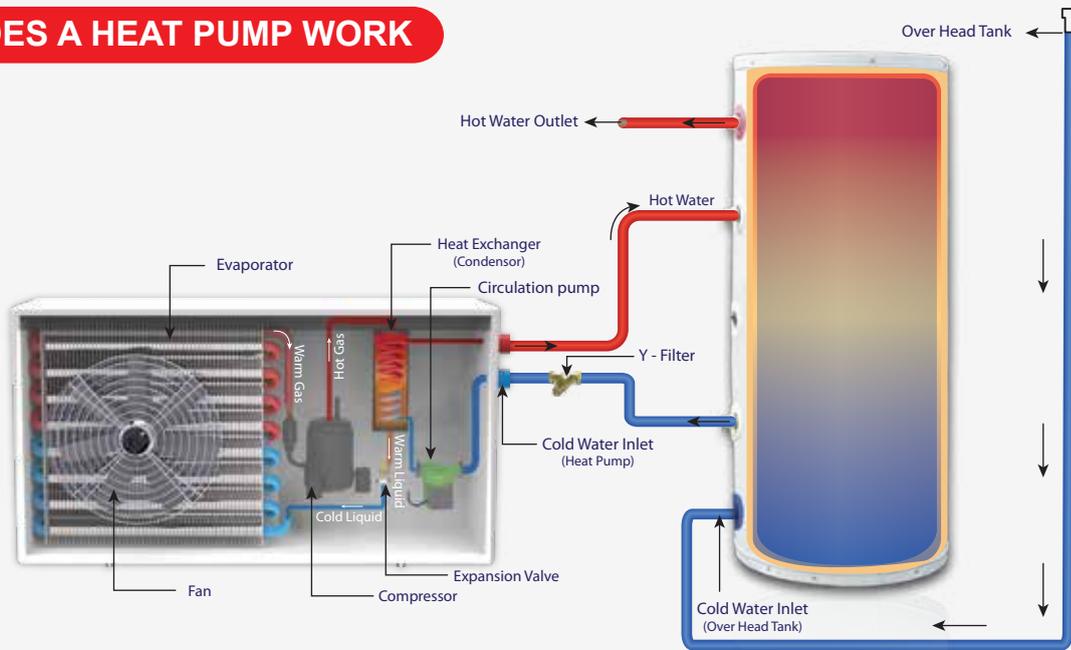
Individual Villas



Small Establishments

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 4kW. 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.

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.

KEY FEATURES

- Split type system for flexible installation - external and internal units
- Water Circulation and Technology - Safe & Reliable no mixing of refrigerant and water
- Rugged and reliable rotary compressor
- High energy efficiency - COP of 4.2
- Intelligent automatic LCD controller to set temperature and time options
- Available with 100 litres 200 litres & 300 litres tank
- Enamel coated tank for water storage to withstand corrosion
- Utilizes as low as 0.83 / 1.19 / 1.79 kW input; delivers heat output up to 3.5 / 5.0 / 7.5 kW
- High rated pressure of 7 bar - designed to work with pressure pumps
- Can be combined with a circulation pump to deliver hot water within seconds anywhere in the house

COMPARISON OF VARIOUS HEATING SYSTEMS

Type	Weather Independent	On Demand	Water Volume	Eco-Friendly	Low operation cost
Heat Pump	✓	✓	High		
Solar Heater	✗	✗	Medium		
Gas Heater	✓	✗	Low	✗	
Electric Heater	✓	✗	High		

FEATURES



Porcelain
Enamel
Glass Lined
Tank



Compressor



Circulation Pump



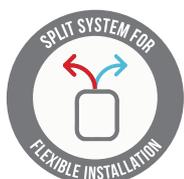
Expansion valve



Intelligent Electronic
controller



High Energy Efficiency -
COP of 4.2



Split system for
flexible installation



Water circulation
technology



Low operating cost -
more savings

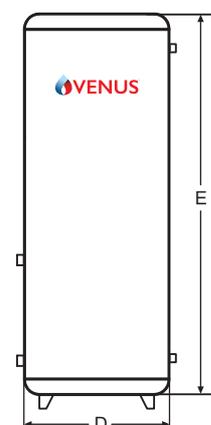
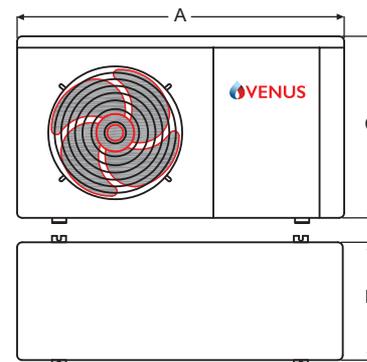


5 YEARS
*
GUARANTEE
ON INNER TANK

PRODUCT SPECIFICATIONS

Description		VDHX3i	VDHX5i	VDHX8i			
Rated Heating capacity	kW	3.5	5.0	7.5			
	BTU/h	11940	17060	25590			
Rated Heating power input	kW	0.833	1.19	1.79			
Operating Current	A	3.8	5.45	8.2			
Power supply	V/PH/Hz	220~240V / 1PH / 50Hz					
COP	W/W	4.2					
Rated output water temperature	°C	55					
Max outlet water temp	°C	60					
Compressor type		Rotary × 1					
Water side heat exchanger	Type	Tube - Tube					
Dimension (A x B x C)	mm	930 x 360 x 550	930 x 360 x 550	865 x 465 x 795			
Noise level	dB(A)	43	48	52			
Fan discharging	Type	Horizontal					
Ambient temperature	°C	(-)7~43					
Refrigerant	Type	R410A					
Water connection		3/4"					
Cabinet		Powder Coated					
Suggested water tank	Liter	100-300	500	1000			
Net weight	kg	40	45	55			
Gross weight	kg	45	50	60			
Tank dimension		D	E	D	E	D	E
	100 Lts	510	1000	-	-	-	-
	200 Lts	560	1385	-	-	-	-
	300 Lts	750	1650	-	-	-	-
	500 Lts	-	-	1100	1400	-	-
1000 Lts	-	-	-	-	1300	1900	
Guarantee (Heat Pump)		2 years					

Testing condition - Heating: Ambient temp. (DB/WB): 20°C/15°C, water temp. (input/output): 15°C/55°C.
* Conditions apply.



VENUSTM
HEAT PUMP WATER HEATERS

VENUS HOME APPLIANCES (P) LTD.

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