

Domestic Range

 **VENUS**<sup>TM</sup>  
HEAT PUMP WATER HEATERS



More than  
**70%**  
Energy  
Savings\*

**Round the clock hot water  
at the lowest cost**

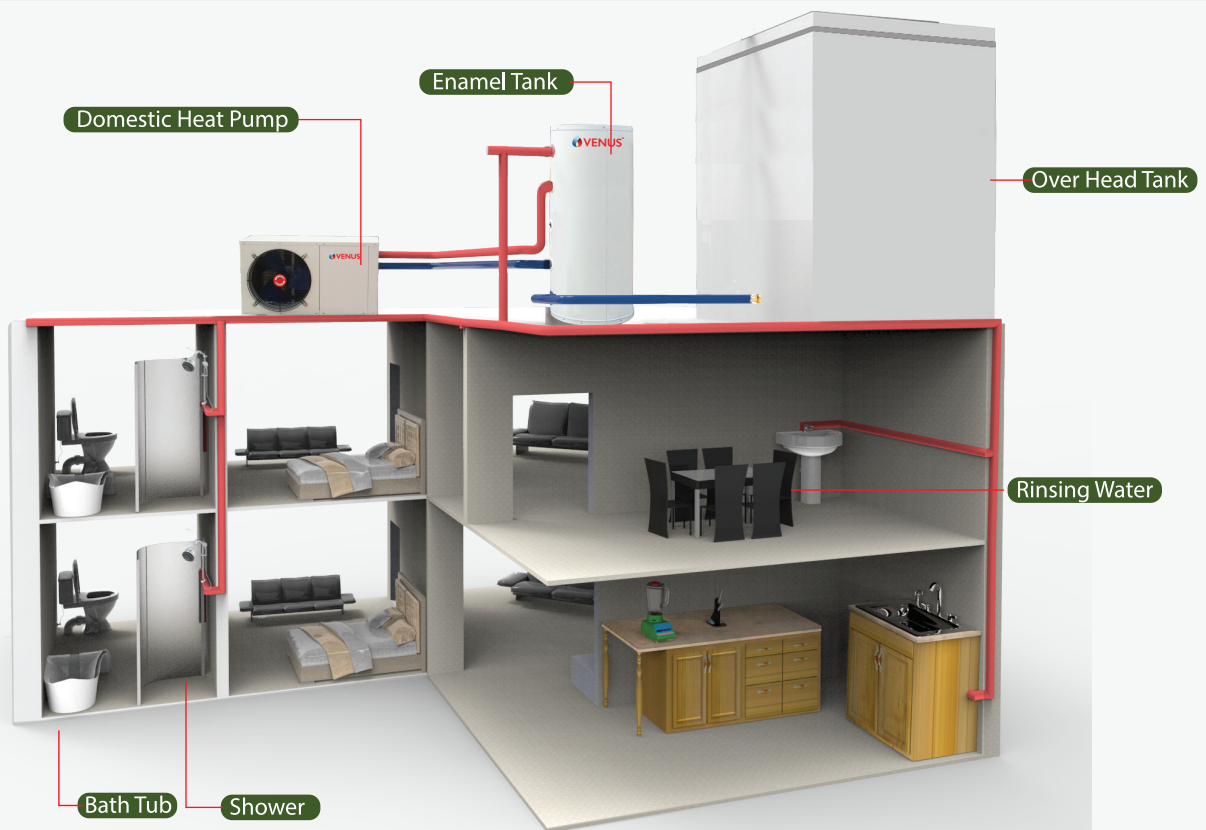
Energy-efficient, easy to use and perfect for your home.

## 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 Pumps 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



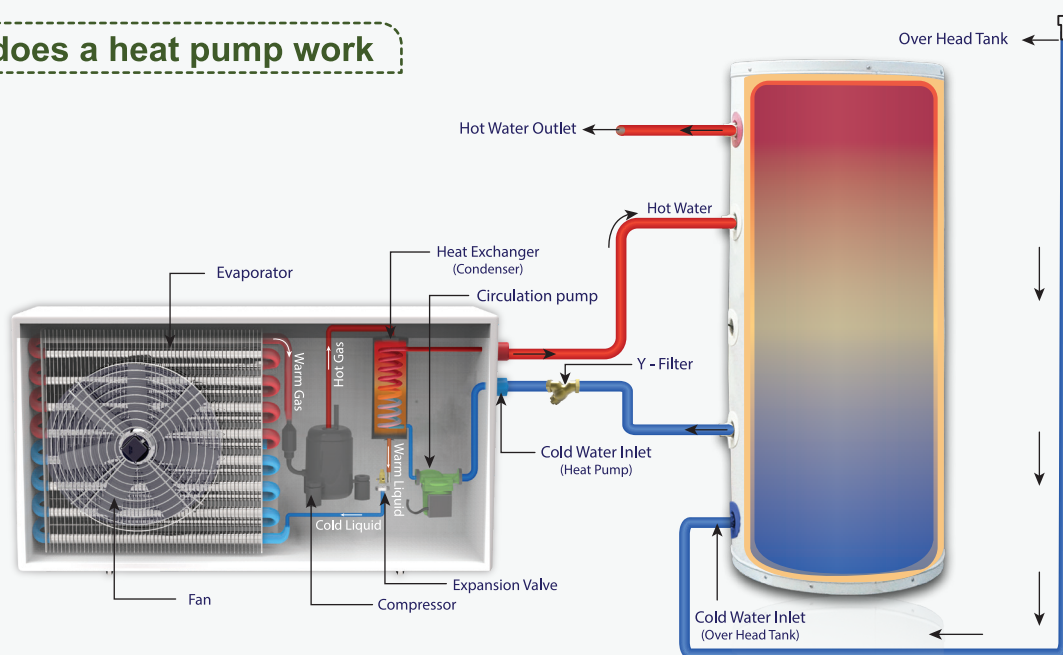
Individual Villas



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.

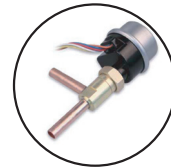
## Key Features

- 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



High Energy Efficiency -  
COP of 4.2



Split system for  
flexible installation



Water circulation  
technology



Low operating cost -  
more savings

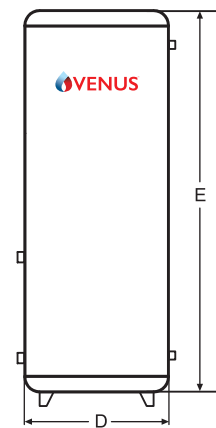
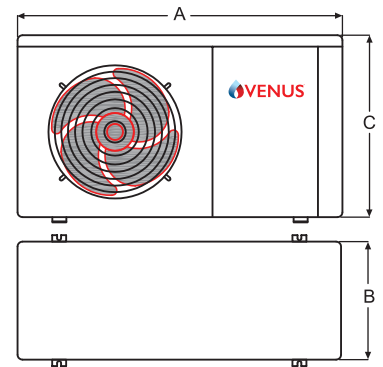


## PRODUCT SPECIFICATIONS

Description			VDHX3i	VDHX5i	VDHX8i		
Rated Heating capacity		kW	3.5	5.0	7.5		
		BTU/h	11940	17060	25590		
Rated Hot Water Output	Inlet Water Temp.15°C	L/h	75	110	160		
	Inlet Water Temp.20°C		85	125	185		
	Inlet Water Temp.25°C		100	145	215		
	Inlet Water Temp.30°C		120	172	260		
Rated Heating power input		kW	0.83	1.19	1.79		
Operating Current		A	3.8	5.4	8.2		
Power supply		V/PH/Hz	220~240V / 1PH / 50~60Hz				
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	930 x 360 x 550		
Noise level	dB(A)		≤43dB(A)	≤48dB(A)	≤52dB(A)		
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		
	Inner Tank		Porcelain Enamel Glass Lined Tank	Epoxy coated / SS			
Net weight	kg		40	45	54		
Gross weight	kg		45	50	60		
Guarantee (Heat Pump)			2 years				
Guarantee (Tank)			5 years		1 year		
Tank dimension			D	E	D	E	
	100 Lts		510	1000	-	-	
	200 Lts		560	1385	-	-	
	300 Lts		650	1520	-	-	
	500 Lts		-	-	710	2000	
1000 Lts		-	-	-	-	1050	2000

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

\* Conditions apply.



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### VENUS HOME APPLIANCES (P) LTD.

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