

## FEATURES



High Energy Efficiency - COP of 4.2

Split system for flexible installation

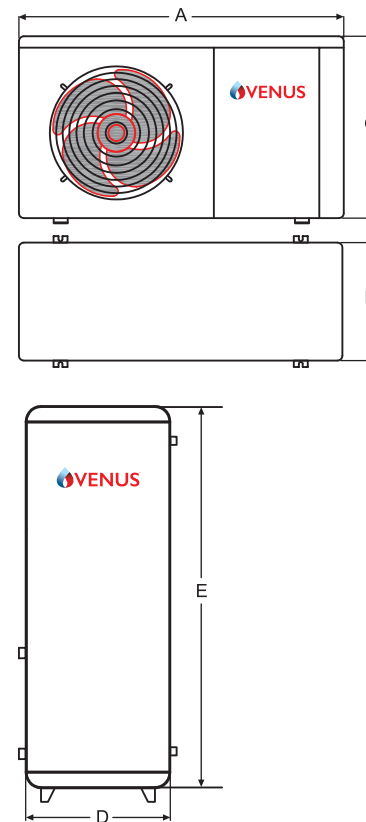
Water circulation technology

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 Hot Water Output	Inlet Water Temp.15°C	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 x 1			
Water side heat exchanger	Type	Tube in Shell			
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	Litre	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



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



**VENUS HOME APPLIANCES (P) LTD.**

Email: [customercare@venushomeappliances.com](mailto:customercare@venushomeappliances.com)

CENTRAL MARKETING OFFICE: No.18, 1st Link Street, Nehru Nagar, Kottivakkam, Chennai - 600041. Ph: 044 - 35546900

**VENUS**  
Hot Water Professionals



P/N - 03/2026

**VENUS**  
Hot Water Professionals

**Energy Smart X Series**  
Heat Pump Water Heaters

More than  
**75%**  
Energy Savings\*



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

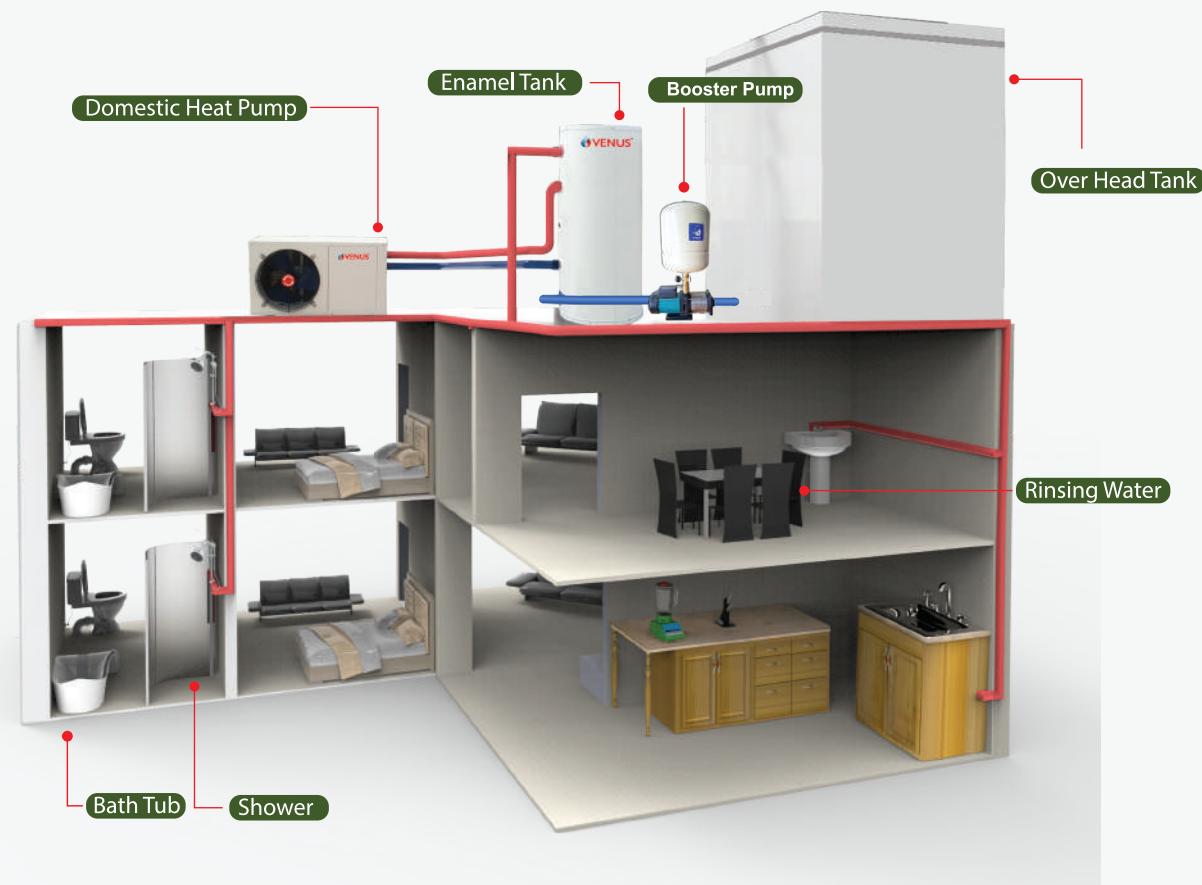
Energy-efficient, easy to use and perfect for your home.

## 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.

## Schematic with Booster Pump

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



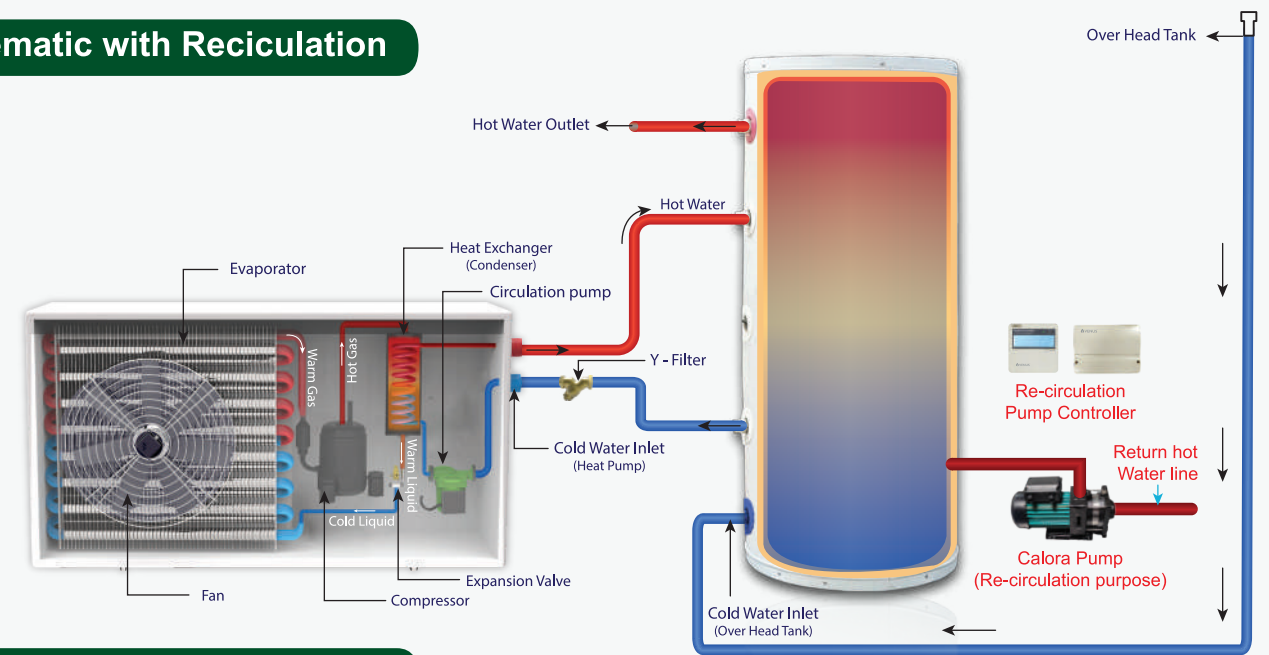
Individual Villas



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.

## Schematic with Recirculation



## 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.
- Hot water re-circulation using a pump and controller ensures instant hot water at fixtures by continuously circulating water through the pipes, reducing wait time and conserving water.

## Key Features

- Split type system for flexible installation - external and internal units
- Water Circulation Technology - Safe & Reliable
- Rugged and reliable rotary compressor
- High energy efficiency - COP of 4.2
- Intelligent 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	🌿	💰