

Difference between Storage Water Heater & Instant Water Heater



STORAGE WATER HEATER

Storage Water Heater System is a hot tank system for a multipoint solution which operates with mixer tap system and can supply to more than 1 shower point such as bathtub, jacuzzi, rainshower, sink or basin or washing machine.

Multipoint System

1 Power Point
Hot & Cold Pipes

INSTANT WATER HEATER

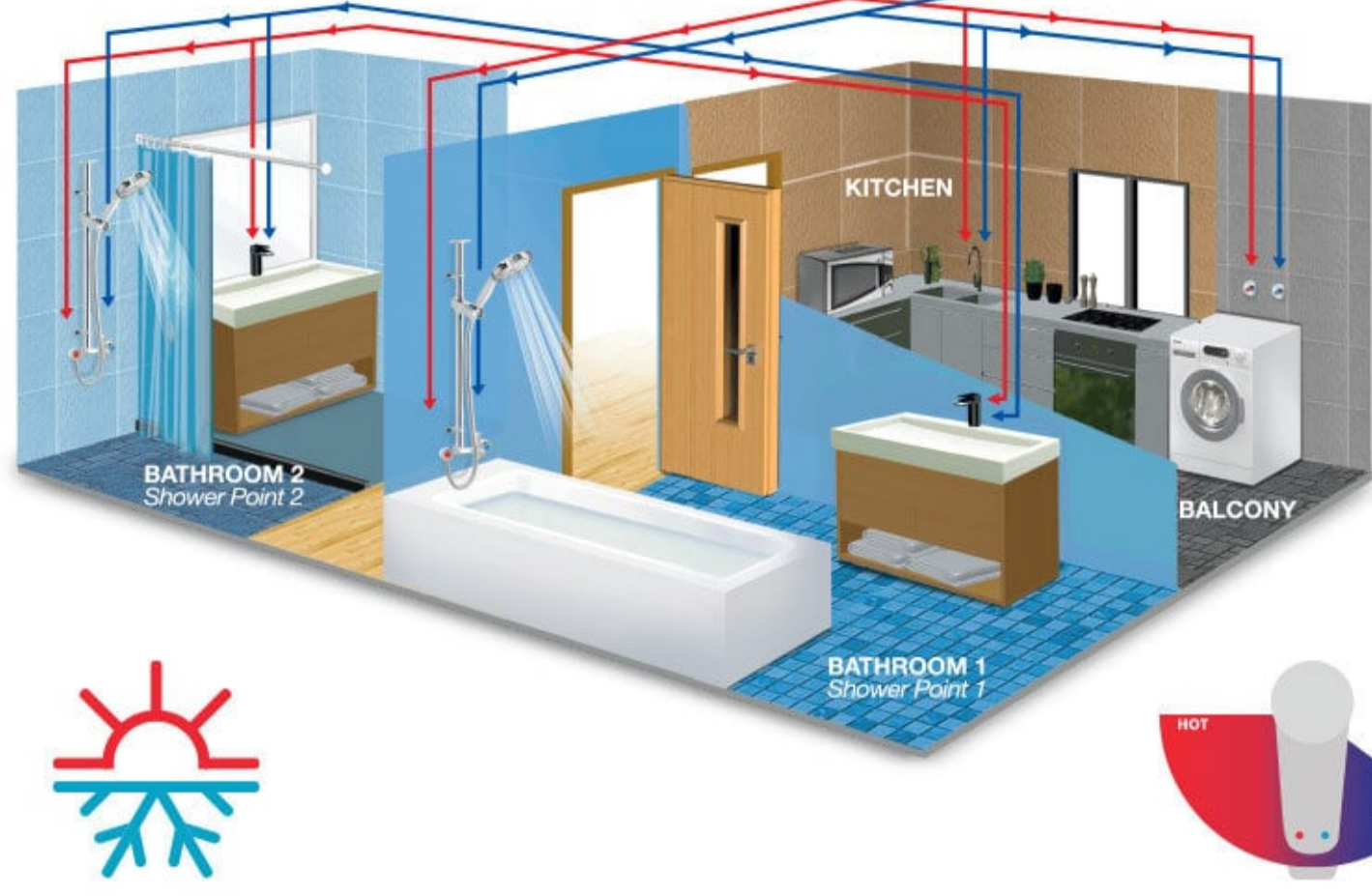
Instant water heater is called instantaneous single point system which heats up cold water instantly to warm water after passing through the heating element without waiting time.

1 Standing Shower

1 Power Point
Cold Water Pipe

Here are a few tips to consider before buying a storage water heater:

1 Check the piping system in the house.



HOT & COLD PIPING SYSTEM

Prior to installation of storage water heater, the hot and cold piping system must be installed behind the tiles of the bathroom concealed for neat installation. Check below for the types of piping to use for the cold and hot piping system.

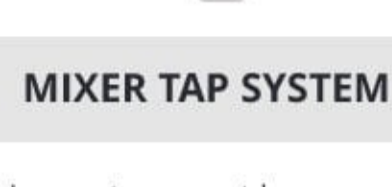
Types of pipes

USED FOR COLD WATER

PVC Pipe

USED FOR HOT WATER

Stainless Steel Pipe PPR Pipe PPU Pipe Copper Pipe



MIXER TAP SYSTEM

The hot and cold piping system must be connected to the mixer tap system to mix the cold and hot water that produces the right temperature for use. Different types of mixer tap are available from thermostatic control to the twist and turn lever system.

Types of mixer taps



THERMOSTATIC CONTROL



TWIST AND TURN LEVER



TRADITIONAL MIXER TAP

2 Check ceiling space in your home for installation above the ceiling.



MANHOLE ACCESS

Manhole should be beside or nearby the unit to enable easy access for maintenance work. The size of the manhole should be around 1 1/2 feet or bigger for easy access to the unit.

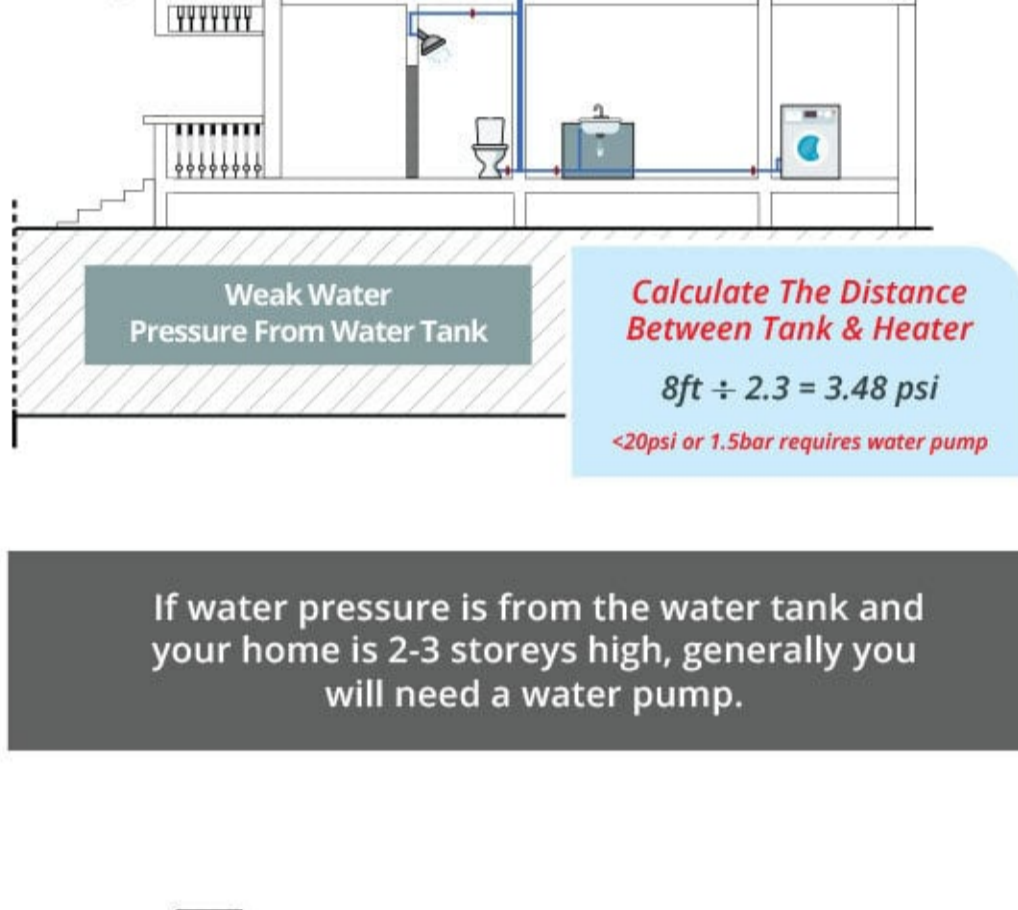


CEILING HEIGHT

Check the ceiling space on top plaster ceiling in order to install the tank on the concrete wall. Make sure there is ceiling space allowance of minimum 2 feet to position the storage water heater.

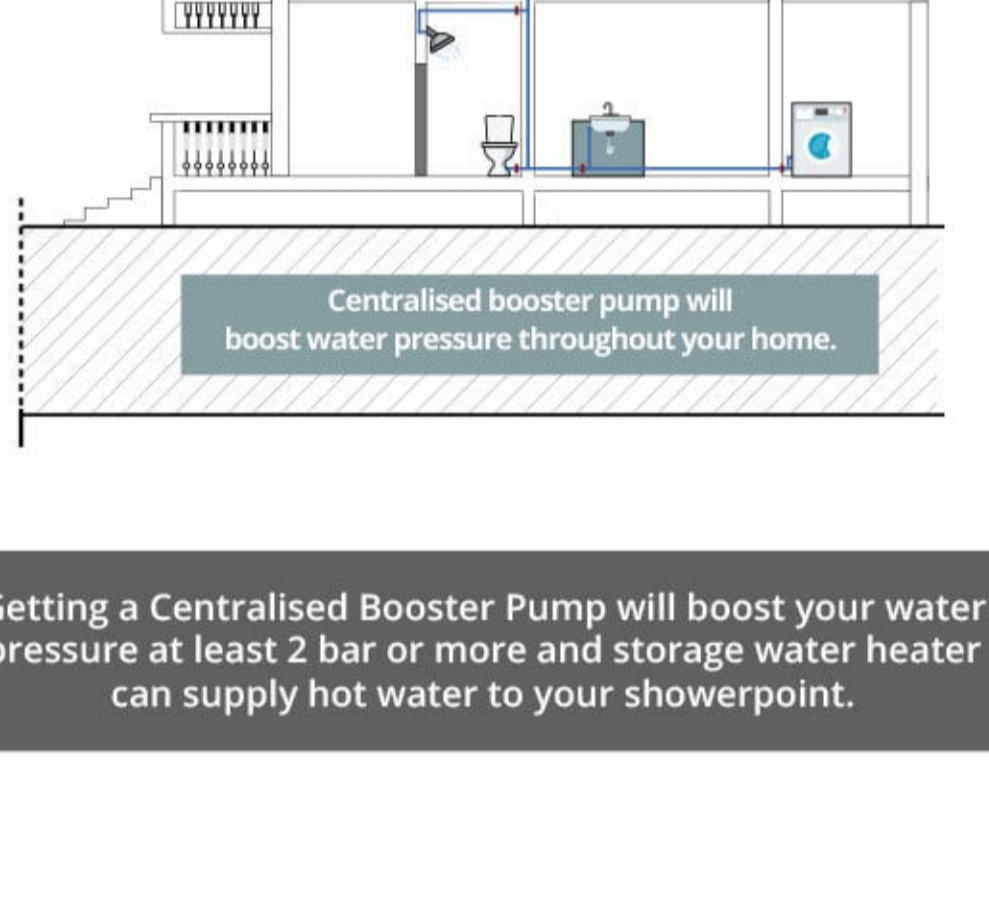
3 Check the water pressure by checking the distance from water tank.

Water Pressure System from Water Tank:



If water pressure is from the water tank and your home is 2-3 storeys high, generally you will need a water pump.

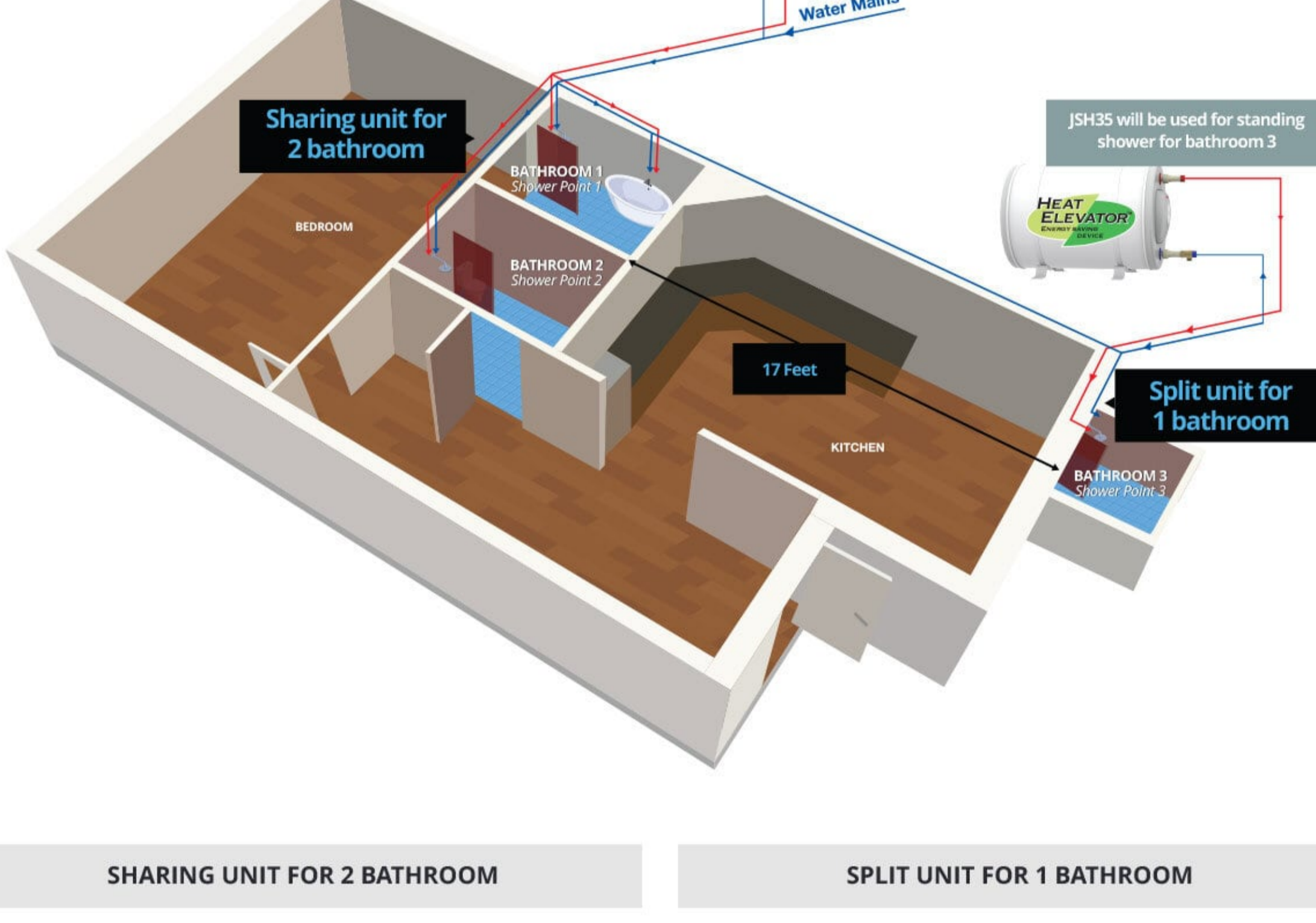
Water Pressure System with Centralised Booster Pump:



Getting a Centralised Booster Pump will boost your water pressure at least 2 bar or more and storage water heater can supply hot water to your showerpoint.

4 Check the distance between bathrooms.

JSH68 will be used for sharing basis between bathroom 1 and bathroom 2



SHARING UNIT FOR 2 BATHROOM

<15 Feet Away

2 Bathroom (Side by side)

The closer the unit to the point eliminates time taken for hot water to reach the point of use

Saves waiting time and reduces water wastage

SPLIT UNIT FOR 1 BATHROOM

>15 Feet Away

2 Bathroom (Side by side)

The closer the unit to the point eliminates time taken for hot water to reach the point of use

Saves waiting time and reduces water wastage

5 Choose your model.

JSH SERIES



Horizontal Position

Normal Heating Time

Preset to 70°C

Long-lasting heat with CFC-Free Polyurethane Insulation Foam

Easy Mounting with Universal Mounting Ring Bracket (Pat.Pending)

JSH HEAT ELEVATOR (HE) SERIES



Horizontal Position

Fast Heating With Heat Elevator Technology (20% Energy Saving)

Preset to 70°C

Long-lasting heat with CFC-Free Polyurethane Insulation Foam

Easy Mounting with Universal Mounting Ring Bracket (Pat.Pending)

JSV SERIES



Vertical Position

Normal Heating Time

Adjustable Temperature Control Knob (Low, Med and High)

Long-lasting heat with CFC-Free Polyurethane Insulation Foam

Easy Mounting with Wall Bracket

6 Select an energy saving option.

What is JOVEN Heat Elevator™ (HE) Technology?
Heat Elevator (HE) technology is the world's first innovation that uses patent pending magnetic device that accelerates the convective heat transfer and improve heat stratification in water. This magnetic device is uniquely designed to weaken the inter-molecular bonding energy and accelerate the movement of water molecules to improve heating efficiency.



Joven Heat Elevator has been widely recognized by leading certification bodies in Singapore

*Available for JSH Series With Heat Elevator (HE) Models only

ENERGY SAVING

Energy Efficiency Improvement

35L 50L 68L 91L

9% 27% 15% 17%

HE technology saves an average of 20% energy in different capacities of storage water heater.

FAST HEATING

FASTER CUT-OUT

Saves 20% less time

Example: Conventional 20 mins With HE 16 mins

4mins Faster Heating Time

Enjoy faster heating with average of 20% faster cut-out time.

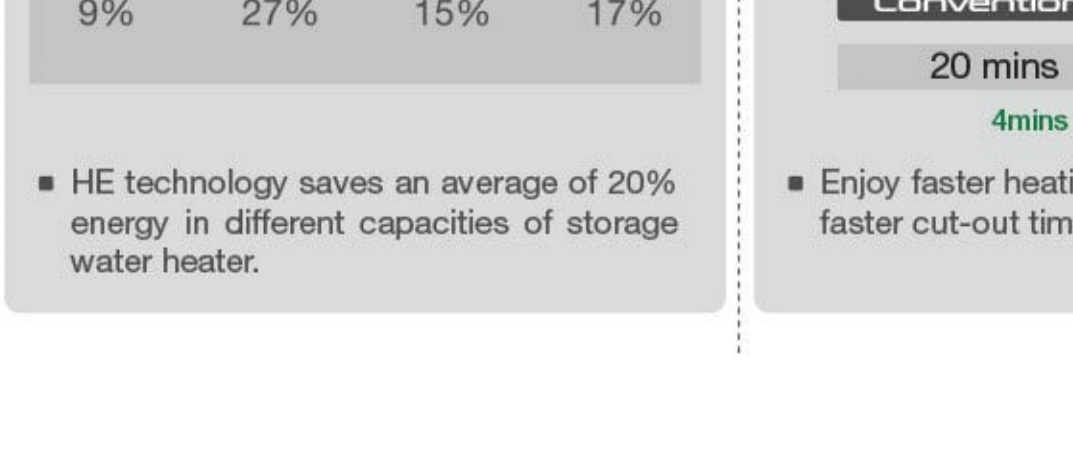
ELECTRICAL SAVING

UP TO 20% Saving

Enjoy lower electricity bills while contributing to a cleaner and greener environment.

How Does It Work?

The comparative photos shows the effect of HE which cause more wider loops than conventional storage water heater. The heated water is spread wider across the heater tank, thus ensuring less heat trapped at the heating element, therefore prolong the heating element life and generate more hot water in the tank.



Note: 1. Test results are courtesy from TÜV SÜD PSB PTE LTD. 2. Test method is based on USA test guidelines (DOE 10 CFR Part 430) as specified by Singapore Standard (SS 530 : 2006) 3. Incoming water condition: temperature 14.4°C, pressure 2.75 bar & flow rate 11.4 Litre/min. 4. Result varies and are based on 25L to 91L capacities. 5. Available for JSH models only.



Legend: Heating Element, COLD, Water Temperature Color Code, HOT

7 Check the capacity required.

CAPACITY	WASH BASIN	SHOWER	BATHTUB	JACUZZI	RAINSOWER	KITCHEN SINK (Individual Unit)
25 Litres	• or	1	-	-	-	Low Usage
35 Litres	• and	1	-	-	or 6 Inch	Medium Usage
50 Litres	•	2	or Small	-	or 8 Inch	Commercial - Low Usage
68 Litres	•	3	or Medium	or Medium	or 10 Inch	Commercial - Medium Usage
91 Litres	•	4	or Large	or Large	or 12 Inch	Commercial - High Usage

*Kitchen Sink to have separate Individual Unit from Shower Unit
*Recommended Flow Rate of 6L/min - 8L/min