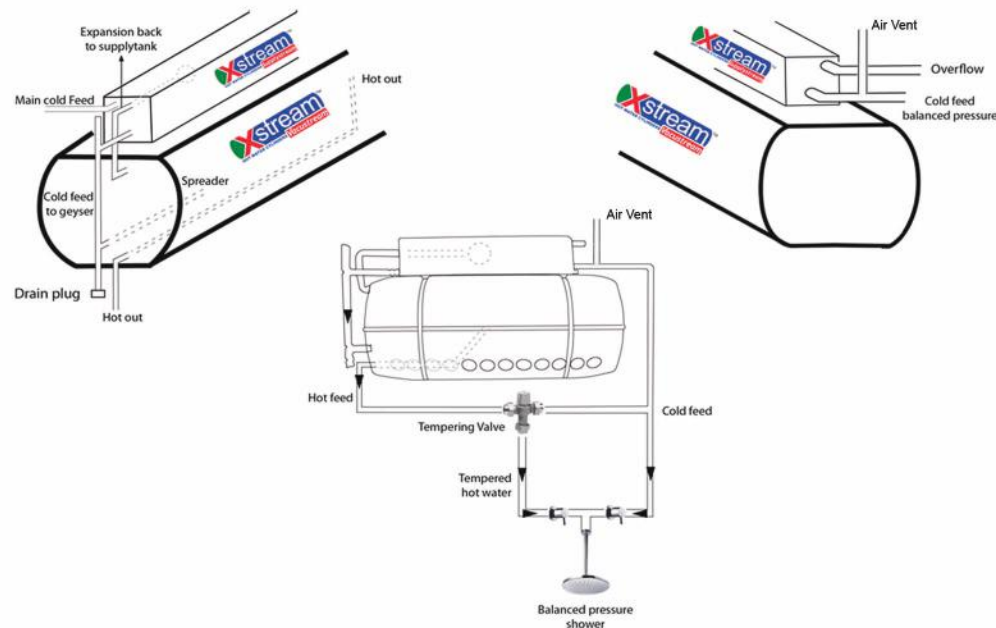


Vacustream installations



Design sketch



- For direct solar water heating with flat panel or indirect with evacuated tubes.
- High pressure, 400kPa Horizontal hot water cylinder.
- Fitted with incalloy element; thermostat; drain valve; temperature and pressure (safety) valve.



- As per Mainstream above with additional ports for interconnection of tanks for increased volume (300 litre plus).
- Second element position in upper half of tank for less electricity usage (less water heated electrically).



- For indirect solar water heating with flat panel.
- High pressure, 400kPa Horizontal hot water cylinder.
- Fitted with incalloy element; thermostat; drain valve; temperature and pressure (safety) valve and internal heat exchanger.



- Unique balanced-pressure hot and cold water supply, suitable for shower mixing.
- No water wastage - re-using of expansion water.
- Cistern-type, open to vent system.



- Open to atmosphere non-ferrous insulated thermal energy storage tank with various design options to choose from.
- Bigger volume storage tanks, 2000 and 650 litre options, with various inter-connectable design options.
- Tank provides for various heat exchanging configurations.



- Open to vent thermal 360 litre storage container with removable lid.
- Various heat exchanging configurations.
- Suitable for installations in the open.



For total reliability you can count on.



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PO BOX 3132, Paarl 7620

Established 2003



The Xstream Vacustream®

Our Vacustream systems are supplied in kit format as a complete solar system and comprises of:

- the main storage tank (Vacustream), 1
- supply tank (Supplystream), 2
- Cobra float valve fitted, 3
- all insulated pipe work between Vacustream and Supplystream in copper, 4
- galvanised adjustable frame, 5
- 12 x tubes, grommets and end caps. 6

This configuration ensures the easiest possible installations.



Electrical

**Available in
Electrical
and
Non - Electrical**



Non - Electrical

Xstream's edge

The most important part of a hot water cylinder is the inner tank. It must perform under pressure at high temperatures and survive an extremely aggressive chemical environment.

We use epoxy vinyl ester resin and glass in the construction of our inner tanks, thereby eliminating known causes of inner tank failures associated with traditional metal tanks. Non-ferrous materials (like those used by us) cannot corrode (a major reason for tank failures) nor can any galvanic reactions (where dissimilar materials are interconnected) occur - our tanks are totally corrosion free, no metal is used in the construction thereof.

Design features

- Balanced pressure is optional on hot and cold water- the float valve positioned inside the Supplystream can feed both the Vacustream (from where the hot water is drawn) and the cold water supply to the shower.
- The Vacustream is available either with or without electrical back-up. The positioning of the element, being in the upper half of the tank ensures minimum electrical usage.
- Expanded water from the Vacustream is dumped entirely into the Supplystream for re-use, ensuring no water wastage whatsoever.
- A simple, sturdy, easy to erect adjustable galvanised frame with all interconnecting copper pipe work ensures effortless installations.
- Our design makes provision for perfectly round holes where the tubes are located into the Vacustream thus preventing leaks.
- With raised fittings for expanded water from the inner tank we ensure there is no air trapped inside the Vacustream.

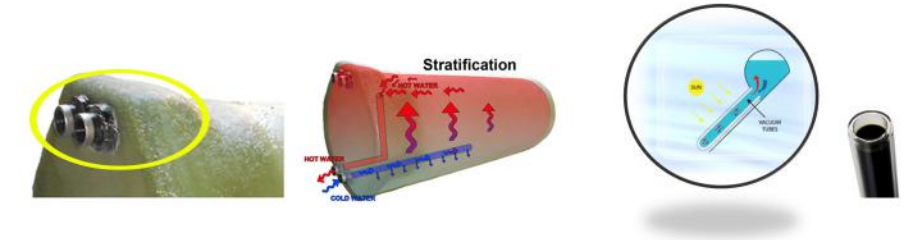
Design aspects

Material selection is crucial as mentioned before. Our non-ferrous tanks are:

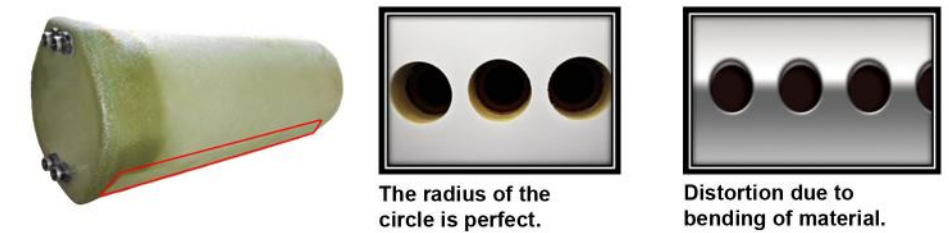
- Totally corrosion free- they will never rust.
- No galvanic reactions will occur in our tanks.
- Made from (non-ferrous) materials with uniform expansion rates (expansion caused by hot and cold cycles inside the inner tank) that totally eliminates the need for protective linings of any sort.
- Known for their low overnight heat losses as non-ferrous materials have low heat transfer properties.
- Lightweight -rendering them easy to handle and install.

How the Vacustream works

Through convection the heated water rise from the tubes into the storage tank, through stratification the hottest water rise to the top from where the hottest water is drained. The Supplystream® with float valve, stores any water that would otherwise be wasted trough expansion and feeds it back into the Vacustream tank for re-use.



Our Vacustream inner tank has a flat surface to ensure perfect round holes for the location of the vacuum tubes. 6



The radius of the circle is perfect.

Distortion due to bending of material.

Xstream Vacustream® and Supplystream® Specifications

	Capacity in Litres	Height	Width	Length	Element	Weight
Non-Electrical Geyser - Vacustream	110	485 mm	485 mm	1 100 mm	No element	17.4 Kg
Electrical Geyser - Vacustream	110	485 mm	485 mm	1 100 mm	1kw	19.2 Kg
Supply Tank - Supplystream	10	150 mm	150 mm	800 mm	-	5 Kg
System installed	Capacity in Litres 110	Height 1 520 mm	Width 1 120 mm	Length 1 710 mm	Evacuated Tubes 12 tubes 47 mm Diameter	-

Note: The Vacustream Solar System is fitted with 12 x 47 x 1500mm evacuated tubes.

