

# Technical Notice

## Water heater storage tank life



2018

Hansen storage water heater tanks are made from premium stainless steel. Stainless steel is not resistant to corrosion. There are a number of different types of corrosion that can occur in hot water systems.

Water with high iron content or water with iron from rusting pipes can introduce corrosion. Camp sites with old pipe work could introduce rust particles into the tank. An inline hose filter can be used to eliminate iron, lead, chlorides and unwanted sediments into your water heater tank.

**DO NOT** fill your tank with bore hole water this will corrode your tank. Bacterial corrosion will affect the life of your tank. If you have filled your system with any irregular water, the system needs to be drained as soon as possible with fresh water, **DO NOT** flush with any chemicals.

To extend the life of your tank drain your water heater when not in use. Install a drain valve inline on your water line leading to the water heater (see page 10 in the installation manual). If your system does not drain open any hot water facet and blow gently until the vacuum is released and a siphon effect starts, leave the drain valve open.

**IMPORTANT** : Remember to fill the tank before connecting AC power or opening the gas bottles, failing to do so will damage the electric heating element or trigger then high temperature thermal cut out on gas, rendering the water heater in operational.

The stainless steel used in our storage water tanks are suitable for water with 600 ppm (Total dissolved solids) or less, anything higher will start to corrode your storage water tank. Total dissolved solids are the total amount of mobile charged ions, including minerals, salts or metals dissolved in a given volume of water, expressed in units of mg per unit volume of water (mg/L), also referred to as parts per million (ppm). TDS is directly related to the purity of water and the quality of water.

- Drinking water 1-50 ppm
- Municipal water typically 250 to 600 (under 1000 is acceptable)
- Bore water from 1 000 to 20 000
- Brackish water 10 000 to 30 000 ppm
- Sea water 35 000 ppm

### TDS in parts per million (PPM)

