CLEGHORN WARING

JABSCO

Using your **SENSOR-MAX**
**STANDARD PRESSURE 2 bar CUT-OUT**
MODEL ***31750-0200*** *(14 litre)*
MODEL ***31755-0200*** *(17 litre)*
*with a*
WATER STORAGE HEATER

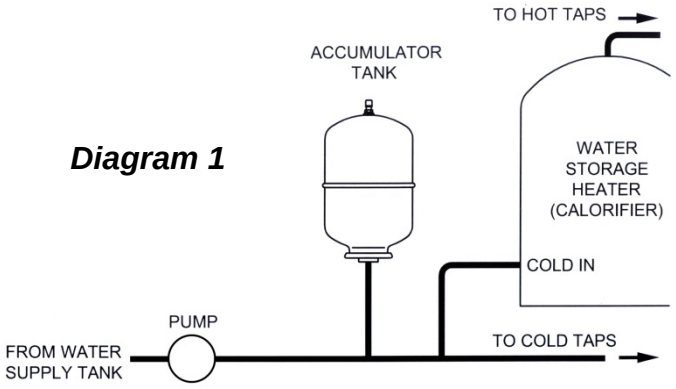
## How to convert a conventional water pressure system to the **SENSOR-MAX** system

### 1. *Why is conversion necessary?*

SENSOR-MAX does not require an accumulator tank, but the water storage heater (calorifier) needs an expansion tank. The system layouts are different.

In some conventional pressure systems, the accumulator tank also functions as an expansion tank. See *diagram 1*.

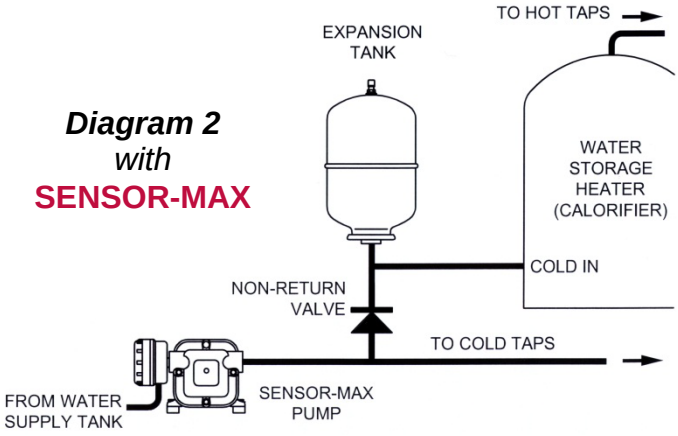
***Diagram 1***




### 2. *How to make the conversion*

To convert an existing system of the kind shown in Diagram 1, remove the accumulator tank and fit a valve and expansion tank as shown in *diagram 2*. Set the gas pressure in the expansion tank before fitting it in the system.

***Diagram 2***
*with*
**SENSOR-MAX**




### 3. *Why do I need an expansion tank and non-return valve?*

If an expansion tank is not fitted, the relief valve on the water storage tank will weep each time the water is heated. This will eventually cause the valve to fail.

*Evaporation of escaping water will lead to a build-up of salts in the safety valve, preventing it from closing fully.*

The non-return valve prevents the hot water from the expansion tank entering the cold water line.

½" NRV ***CW91*** (½" BSP internal connection)

¾" NRV ***CW92*** (¾" BSP internal connection)

### 4. *What gas pressure do I need in my expansion tank?*

Before you fit the expansion tank, set the gas pressure to 2.2 bar. Use a car tyre gauge and foot pump

**TABLE 1** - Selecting an expansion tank

| **EXPANSION TANK SIZE** | **Maximum recommended calorifier size** | |
|---|---|---|
| | *3 bar calorifier* | *5+ bar calorifier* |
| ***CW269*** (2 Lt) | 20 litres | 45 litres |
| ***CW385*** (5 Lt) | 50 litres | 110 litres |
| ***CW288*** (8 Lt) | 80 litres | 180 litres |
| ***CW291*** (20 Lt) | 200 litres | 450 litres |



xylem
Let's Solve Water

Xylem Water Solutions UK Ltd
Bingley Road • Hoddesdon • Hertfordshire • EN11 0BU • UK
*Telephone: +44 (0)1462 480380 Fax: +44 (0)1462 482422*
*mail@cleghorn.co.uk www.jabscoshop.com*