

# EVSD ANTI-LEGIONELLA DEVICE



- **Detects if water in vessel has been static for 24 hours**
- **Optional detection of 24 hour average ambient temperature**
- **Connects to booster set control panel**
- **Optional control panel with 2 volt free contacts and manual alarm reset**
- **Fitted as standard to Tamar & Avon Booster sets**
- **Available loose for retro fit**

**EVSD Control**  
**Peace of mind**

**SMEDEGARD**  
Pumping Technology

Law requirements on drinking water are getting stricter, mainly caused by several outbreaks of Legionnaire's Disease throughout the world. The risk of growth of Legionella, the bacterium that causes Legionnaire's Disease, increases when drinking water is stagnant for longer periods. In a booster system a leaking membrane tank or an incorrectly adjusted booster system can be a potential threat to the quality of drinking water. Especially in rooms with an average ambient temperature above 25 °C the risk is elevated.

### Easy Control for Every Situation

To control water quality in booster systems, Smedegaard offers the Expansion Vessel Safety Device (EVSD), which detects the refreshment of water by registering the filling and consequently, the draining, of the membrane tank and the average ambient temperature in the plant room. Furthermore the EVSD detects periods of water-standstill of 24, 96 or 168 hours. If during this period the refreshment of water in the membrane tank is not sufficient\* and/or the average ambient temperature in twenty-four hours is above 25 °C, the EVSD switches two potential free contacts. With these contacts, an alarm may be sent to the Building Management System alternatively an acoustic or optical alarm can be generated. By means of a reset button on the EVSD-Control module, the signal can be cancelled. Optionally, the booster set may be switched off through its control panel.

### Easy Installation

The EVSD consists of three components:

- The control module EVSD-Control, supplied in a waterproof housing (IP 55)
- A bronze EVSD-Sensor
- A PT1000 temperature sensor (optional)

The EVSD control is a standard fitment on Smedegaard: Avon and Tamar Premier Range of booster sets. The EVSD is available with its own control module that can be mounted on a wall.

*\* In certain countries regulations state that the membranetank must be filled and emptied 30 times per 24 hours. Check local your regulations.*



Simply plug it in a regular 230V socket and it is operational. The EVSD-Sensor must be installed between the discharge header and membrane tank and can be installed on almost any booster system. The optional temperature sensor is fitted on the membrane tank.

### Advantages of the EVSD

- The EVSD signals the circumstances under which the Legionella bacteria could thrive and sustain themselves
- When an alarm is generated, this might also be an indication of a technical failure or an incorrectly adjusted installation

