



Use of Hep_vO[®] in recreational vehicles, caravans and boats



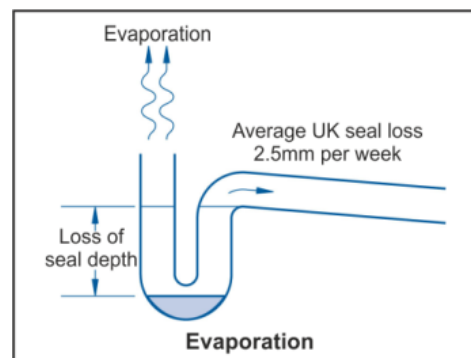
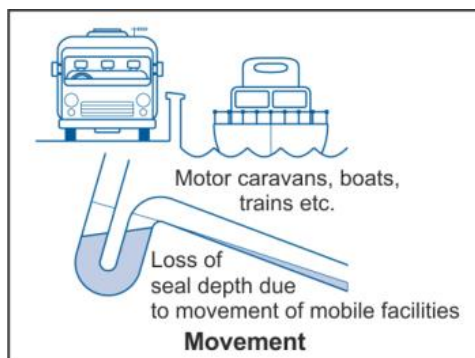
Technical Note TN10319

Issues with water seal traps in recreational vehicles

Drainage systems in recreational vehicles such as caravans, coaches, buses, motorhomes and boats have issues with water seal traps because of movement and potential infrequent use. The use of water seal traps in these circumstances may cause the water seal to be lost or to evaporate over time, allowing odours to escape from the waste system into the vehicle.

Modes of failure of traditional water seals in recreational vehicles include:

- Loss of water seal due to:
 - Movement of the vehicle and the water in the trap, leading to loss of the seal depth
 - Self siphonage, (as with all water seal traps)
- Evaporation of the water seal in warm weather or extended periods of non-use
- Freezing of the water seal because of external location of the vehicles



The waterless Hep_vO[®] self-sealing valve is not subject to these risks of failure.

The performance of the self-sealing valve as an air admittance valve also eliminates the need for secondary venting of the waste system. With no standing water, the risk of waterborne disease is also reduced as there is no water medium in which microbiological and bacterial growth can occur.

Plumbing design

The same design principles as for domestic applications apply.

In the case of horizontal installation, a minimum slope is required to avoid stagnating water in the system.

Ideally the Hep_vO[®] self-sealing valve should be installed adjacent to the appliance but where this is not possible it should be installed as close to the appliance as practicable.