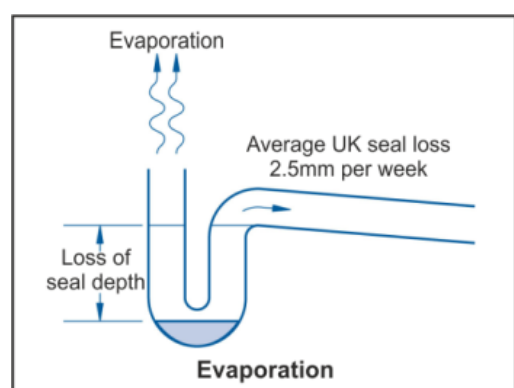


Use of Hep_vO[®] in hot climates and situations of infrequent use



Technical Note TN10320

Issues with water seal traps in hot climates and where appliances are used infrequently



If an appliance is not used for an extended period, evaporation of the water in a traditional water seal trap will lead to a loss of the water seal. In hot climates, with higher risk of rapid water evaporation, this can be a particular problem, which can lead to odours escaping into the buildings after a relatively short period of time.

The rate of evaporation depends on the humidity and temperature of the atmosphere. Moreover, any negative pressure in the drainage system and the atmospheric pressure in the building may be exacerbated by the difference in temperatures leading to greater risk of siphonage failure of the trap.

Deeper water seal traps can be used in warmer climates but require more space close to the appliance.

Examples of situations where a water seal trap may be problematic due to infrequent use include:

- Appliances in caravans, coaches, buses, motorhomes and boats (see Technical Note TN10319)
- Buildings with seasonal use (e.g. holiday lettings, hotels, schools) where appliances may be unused for extended periods of time
- Guest bathrooms, holiday homes, bar sinks, floor gullies in bathrooms, utility rooms etc.
- Air conditioning condensate drainage (see Technical Note TN10321)
- Use with safety devices for hot water storage systems (see Technical Note TN10321)

Benefits of the Hep_vO[®] self-sealing valve

The Hep_vO[®] self-sealing valve uses an elastomeric membrane to create the odour seal and therefore there is no water/sealing fluid that may evaporate or deteriorate that may compromise the seal.

The features and benefits listed in Technical Note TN10317 for the application of the Hep_vO[®] valve in the domestic environment also apply to the installation of the self-sealing valve in hot climatic conditions.