

REWATEC™

Underground Tank Ventilation



Technical Overview

Rewatec Underground Tank Ventilation VEN-TEC-01

Manual Version

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To Safeguard Warranty Please
Ensure You Are Using The Latest
Technical Overview.

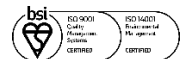


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Ventilation: General Guidance

Underground tanks must be vented to prevent the build-up of dangerous and explosive gasses within the tank. The extensions of vent piping above ground should be located where gasses and vapours will be dispersed safely into the atmosphere. Before installation of the tank commences attention must be paid as to how to provide adequate ventilation across the tank/plant under consideration.

Premier Tech Aqua makes provision in the relevant tank to provide a means of ventilation. As each site is different it is beyond the scope of Premier Tech Aqua to provide site ventilation design services; on site specific ventilation layout and design is the responsibility of the end user.

Vent termination locations should be chosen taking into account conditions at or near the site which could adversely affect the safe dispersal of any noxious and/or flammable discharge to atmosphere. These conditions include but are not limited to the nature, height and location of surrounding developments; the direction of prevailing winds and the possibility of unusual air currents caused by high buildings; the proximity of possible ducts for the conveyance of flammable vapours, such as roof gutters, down pipes, chimney stacks, ventilation shafts, trees, narrow passages and gaps between buildings. When considering ventilation

Vent pipes should be as short as practicable. Vent Termination should be not less than 2.4m above paving level and not less than 1m above the head of any openable window or door. The vent discharge point should not be within a horizontal distance of 3m of opening windows or any other opening to a building. Vent pipes should not be less than 3m from the boundary; however, where there is an imperforate wall at the boundary extending from ground level and for at least 3m in any direction from the vent discharge point, they may be located close to the boundary.

All venting pipe should be provided with cowl at their termination to avoid any birds, vermin or small animals from blocking the vent pipe or falling into the separator tank. The minimum suggested diameter of any vent pipe is 100mm and where the separator has multiple manway access turrets then multiple vent pipes will be required i.e. one pipe from each turret to a common vent line.

References

National Building Specification R12 "Drainage Below Ground"
HSE "Petrol Filling Stations: Construction and Operation" HS(G) 41
BS 8301 "Code of Practice for Building Drainage"
BS EN 752 "Drain and Sewer Systems outside buildings"
Building Regulations guidance documents:
 Drainage and waste disposal
 Ventilation