



VENTING & SEPTIC TANK OUTLET FILTERS

It is necessary for there to be a passive air flow through the whole AES bed. The advanced secondary treatment that takes place in an AES bed is due to aerobic conditions being maintained and providing a habitat for aerobic bacteria to thrive in. This is achieved by having a 100mm Low Vent at one end of the AES bed, and a High Vent at the other end of the bed, that is at least 3m higher than the low vent. The vents can be positioned either at the bed or remotely/ at a distance from the AES bed if this is more practical or for aesthetic reasons



In the picture to the left the low vent is slightly to one side of the bed so that it is near the fence post and less likely to be knocked accidentally.



In this system the septic tank effluent is pumped to an AES bed installed in a mound. Both high and low vents are remote.

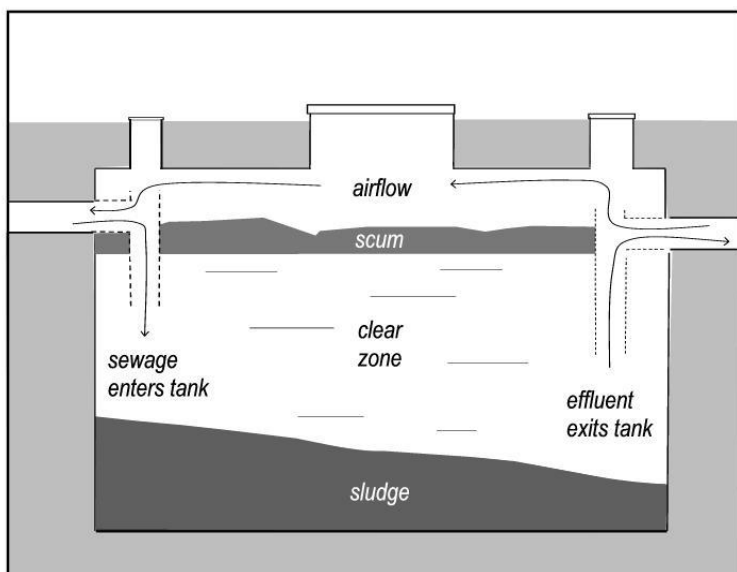
Any low points in the venting pipework must have holes to allow water (condensation/ rain) to drain.



The low point in the vent pipework pictured has holes drilled in the bottom of the low point, and the low point surrounded by drainage metal wrapped in filter cloth.

The low vent is always 100mm diameter, and installed at a minimum 150mm above ground level, or above possible snowfall depth. If the High Vent is installed at the AES bed it is 100mm diameter. If the terminal vent of a house is used as a high vent it can be one 80mm diameter vent, or two 50mm diameter vents. Terminal vents should be positioned according to G13 5.7; above roof height and away from windows. If the airflow in the venting system passes through the septic tank the septic tank inlet and outlet fittings must allow free passage of air, and all tank lids and inspection points must be airtight.

Septic tank set-up that allows free passage of air:



OUTLET FILTERS

Outlet filters are not recommended by the manufacturer as if they are not maintained the operating level will rise and block airflow.

If you want to install an outlet filter, there must be an alternative air path (ie not through septic tank).



Oxygen Demand Vent
Available from Environment Technology (ET)



Alternative vent cowl
Available from ET or sourced locally

Maintenance: All vents are to be kept free of vegetation to maximise airflow.