

Case study 705

Sewage plant requires ventilation system

In order to guarantee a safe working environment within sewage treatment plants, it is absolutely imperative that toxic gases are effectively tackled and removed. The presence of methane poses a very real threat to operators on site and must be directly addressed to eliminate the chance of illness or even death. A purpose-designed ventilation system will however ensure these dangers are avoided, and we work alongside companies in the industry to help avoid hazardous situations and allow vital work to continue without delays.

Although it is obligatory for technicians to use personal protective equipment, harnesses and breathing equipment, additional ventilation equipment is often necessary. Toxic gas concentrated within confined spaces could have fatal repercussions if not counteracted properly – something Andrews Ventilation are highly experienced in helping our customers circumvent.

The problematic area in this case was the screen inlet room, which acts as a filter preventing large solid items from causing system blockages. Remaining sewage is then forced into a number of chambers. Unfortunately for our client, their existing fixed ventilation system was out of action and awaiting repair meaning an alternative solution was required immediately.

In response to what was an urgent issue, we delivered and installed ten FV300 ventilation fans around the section in question. These were more than adequate in removing harmful methane gas and replacing it with a constant circulation of fresh air. The safety of the site was then ratified via gas detection monitors which confirmed that our hired ventilation units had once again made the application secure to proceed.



Air flow (max) 5,100m³/h
Power supply 110V 1ph 50Hz Run 11.4A
Plug type BS4343 16A 110V
Generator size 5kVA min
Transformer size 5kW min
Duct length (max) 40 metres
Duct size 300mm
Noise level (max) 72 dBA @ 1m
Weight 95kg
Dimensions (mm) 631 x 822 x 1,054
Control Manual
Average power consumption 1.25kW/h



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