

# SAND FILTER

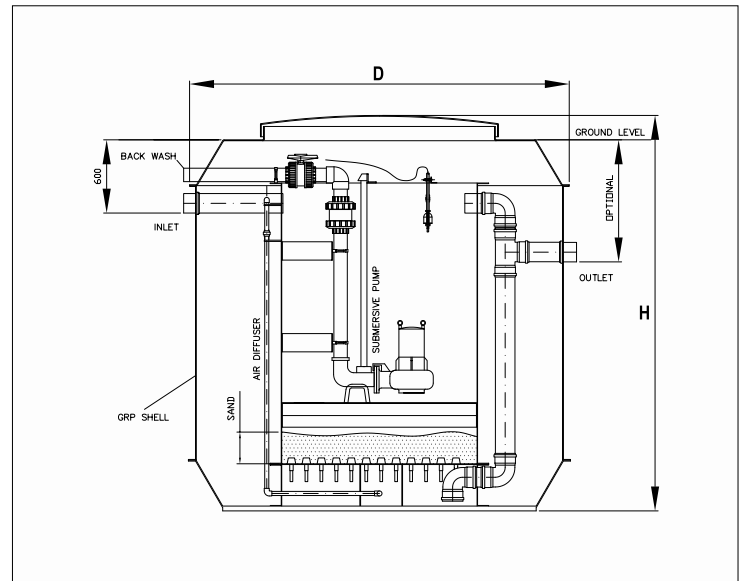
## TECHNICAL DATASHEET

Designed to remove excess suspended solids (SS) and biological oxygen demand (BOD) from wastewater treatment plants. The WPL sand filter meets stringent discharge consent standards above what is normally expected from a biological process or an industry standard clarifier.



## KEY FEATURES:

- Dependent on particle size, a minimum removal of 60%SS and 40%BOD
- Timed backwash sequence combines air scour and backwash
- Influent can flow by gravity or pumped into the filter
- No need to inhibit inflow to filter during backwash cycle
- Above and below ground installations



| Model | Population Equivalent (PE) | Max. flow (m <sup>3</sup> /day) | Filter area (m <sup>2</sup> ) | Tank diameter "D" (m) | Tank height "H" (m) | Backwash flow required (m <sup>3</sup> /h) | Pumps flow (m <sup>3</sup> /h) | Air volume (m <sup>3</sup> /h) (backwash) |
|-------|----------------------------|---------------------------------|-------------------------------|-----------------------|---------------------|--|--------------------------------|---|
| VSF01 | 93                         | 42                              | 0.28                          | 1.740                 | 3.150               | 10.2                                       | 18                             | 20.4                                      |
| VSF02 | 266                        | 120                             | 0.79                          | 2.610                 | 3.150               | 28.3                                       | 36                             | 56  |
| VSF03 | 400                        | 180                             | 1.33                          | 2.860                 | 3.150               | 47.8                                       | 42                             | 95  |
| VSF04 | 800                        | 360                             | 2.01                          | 3.110                 | 3.150               | 72.4                                       | 81                             | 145                                       |

### Disclaimer

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