

Grit Trap

Response Group

Equipment
Data Sheet #: 23



Half Bridge Scrapers

Picket Fence Thickeners (PFT)

Grit Traps

Recent Installations

- Bantry WWTP
- Bunclody WWTP
- Templemore WWTP
- Monasterevin WWTP
- Castlerea WWTP

Response Group manufacture Vortex Grit Traps suitable for wastewater flows in the range 50 to 1500 litres per second. The grit trap action is based on the formation of a vortex by tangential entry to a profiled chamber. Radial rotation of flow within the chamber is created by an impeller and the heavier grit solids are collected to the centre of the tank and drop to the grit collection chamber. An air blower, controlled by a timer directs a high velocity air stream to fluidize the settled grit prior to its removal by air lift pump for washing and classification.

Key Features

- Compact Design
- High Separation Efficiency
- Low Energy Input
- Low Head Loss
- Few Moving Parts
- Low Wear/Maintenance

Dissolved Air Flotation (DAF) Units

Surface Rotors / Aerators

Optional Features

- Packaged Plant
- Stainless Steel Fabrication
- Washing/Classification Unit
- Variable Speed Impeller
- Acoustic Blower Enclosure
- PLC Control Package

Rotating Bar Interceptors (RBI)

Tipping Buckets

Dissolved Aerations

Penstocks / Stoplogs

Packaged Pump Stations



The Vortex Grit Trap is normally constructed of galvanized and coated mild steel located in a cast-in situ concrete tank. The mechanical unit is comprised of a drive motor, gear reducer, impeller, drive shaft and airlift pipework with air connections. Options which include a prefabricated mild steel or stainless steel tank unit are available. The mechanical units are also available fabricated in stainless steel.



Further information on our full range of products can be obtained at our website www.response-group.ie