

## Vertical Surface Aerators

Response Group

Equipment  
Data Sheet #: 21



Half Bridge  
Scrapers

Picket Fence  
Thickeners  
(PFT)

Grit Traps

### Recent Installations

- Bantry WWTP
- Edenderry WWTP
- Tinahely WWTP

Response Group manufacture Vertical Surface Aerators which introduce oxygen by mechanical means to industrial and municipal wastewaters. The Surface Aerator consists of an impeller coupled with an electrical motor suspended within the wastewater to be treated.. The rotation of the impeller entrains air from the atmosphere and mixes it with the wastewater. The aerator is designed to ensure efficient mixing of the contents of the aeration basin and prevent local build-up of high oxygen concentration liquor.

Surface Aerators may be mounted on reinforced concrete or structural steel platforms or bridges. They can also be provided as floating units suitable for anchorage in lagoon locations. The aerator is designed as a robust non-clog unit which supplies maximum oxygen input combined with optimum mixing characteristics for minimum power requirement.

A complete range of Surface Aerators is offered with motors rated from 4KW to 100KW. The standard rate of oxygen transfer to clean water at 15°C of 1.8KgO<sub>2</sub>/Kw/hr is guaranteed



### Key Features

- Galvanised MS Construction With 3 Coat Epoxy Finish
- Wide range of Applications
- Robust Non-clog Design
- Excellent Oxygen Transfer
- Trouble-free Performance
- Vibration- controlled Design
- Emergency Stop Button
- IP 55 Protection

Dissolved Air  
Flotation (DAF)  
Units

Surface Rotors  
/ Aerators

### Optional Features

- Anti-splash GRP Covers
- DO Transmitter/Controls
- Draft Tube Assembly
- Anti-erosion Assembly
- Variable Speed Drive
- Alternative Aerator Materials

Rotating Bar  
Interceptors  
(RBI)

Tipping  
Buckets

Dissolved  
Aerations

Penstocks /  
Stoplogs

Packaged  
Pump Stations

Further information on our full range of products can be obtained at our website [www.response-group.ie](http://www.response-group.ie)