Key Benefits
- Small footprint
- High performance
- Cost effective
- Ease of operation
- High loading rate tolerance
- Single pass treatment
- No desludging
- Flexible design
- Retrofit available
- No mechanical moving parts within the unit
- Stainless Steel
- No blocking
- Available for hire *

*subject to availability

Applications
- Relieve biologically overloaded works
- Removal of ammonia in tertiary mode
- Roughing filter in carbonaceous mode
- Mobile emergency response unit
- Unit can be configured to deal with Total Nitrogen if required.

The media can be retrofitted into existing overloaded plants to provide additional surface area to aid further biological growth.

Retrofits are in collaboration with Water Solutions Ireland Ltd.

Mobile MBBR: Cullompton, Devon. Population equivalent of 750 (based on 20:30 discharge consent)

MBBR 750 p.e. Control panel with 2 x 4kW blowers (Duty/Standby)

Mobile MBBR: Cullompton, Devon. Population equivalent of 750 (based on 20:30 discharge consent)
Media

Carrier elements for the bacteria
Increased surface area for biological breakdown (380 m² per m³)
Made from injection moulded polyethylene
Increased oxygen transfer capacity
As biomass builds up on media, neutral buoyancy is achieved which encourages increased biological breakdown within the unit.

Performance Capabilities

These graphs show the capability of A S and Tech’s mobile 750 p.e. unit on an established waste water treatment plant. Since sampling began 5 weeks after commissioning, we achieved a consistent reduction in ammonia by over 90%. The initial start up period is crucial to allow biomass to build up on the media contained within each cell.

BOD reduction is 40% lower on average after passing through the MBBR. It is important to note that this reduction has been achieved without any settlement of the solids.

The mobile MBBR can be manufactured for population equivalents ranging from 750 to 1500* persons in a single unit.

*based on 20:30 discharge consent
Tank Specifications

4mm painted Grade 304 stainless steel

Aeration

Medium bubble membrane diffusers

Bottom aeration system which aids efficient use of capacity

Blowers

Duty/Standby side-channel blowers

4kW blowers with invertors (reducing overall power consumption)

Pipework

Stainless steel

Control Panel

Duty/Standby blower selection

Duty/Standby pump selection

Mobile MBBR unit for 750 p.e. with kiosk containing control panel and 2 duty/standby blowers.