# Technical Datasheet

## BB17 Biological Reactor

## Product Overview

The GAP Biofilm Reactor is an advanced, single-pass aerobic treatment solution developed for the effective removal of carbon and nitrogen-based compounds.

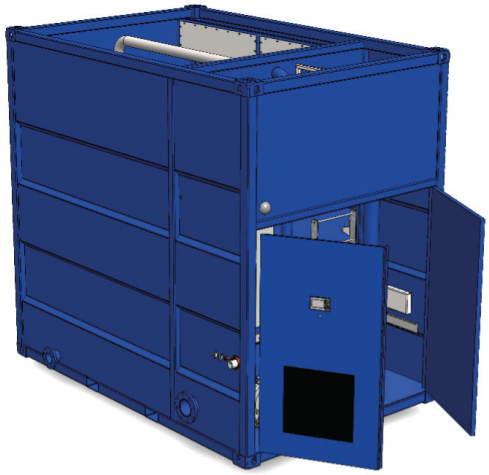
With over 7,700 square meters of protected surface area of specialised plastic media elements, microorganisms naturally present in the effluent attach and thrive, efficiently breaking down organic matter.

Our integrated user kiosk houses the complete control and aeration systems, including a convenient ladder and enclosed viewing platform for inspection and maintenance activities.

The energy-efficient side channel blowers deliver a consistent oxygen supply to the biomass as well as eliminating any potential dead spots to maximise treatment performance.

## Key Features

- **High Capacity**
  Designed to maximise treatment efficency and performance without requiring extensive space.
- **Media**
  Specialised plastic carrier elements provide an expansive protected surface for microorganisms to colonise and propagate.
- **Configuration**
  Versatile single-cell system allows diverse operational flexibility for multiple units in series or parallel to promote enrichment of specific microorganisms.
- **Scouring**
  Continuously self scouring system that naturally maintains an ideal and uniform biofilm thickness, eliminating the need for backwash cycles.
- **Monitoring**
  Live monitoring of dissolved oxygen concentration and airflow rate automatically controls blower speed, reducing power consumption and operational costs.
- **Blowers**
  Energy-efficient side channels aeration units eliminate the need for checking and replacing oil, belts and suction filters.
- **Connections**
  Ground level couplings reduces manual handling and working at height.

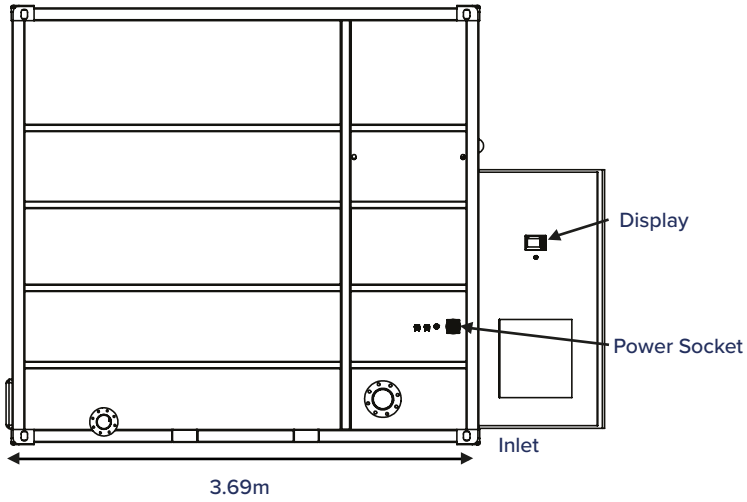


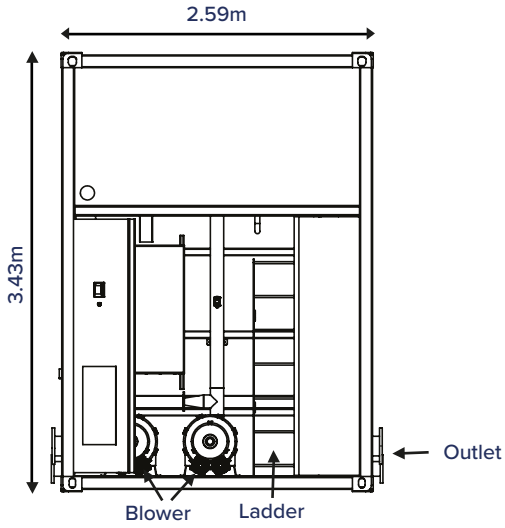
## Technical Data

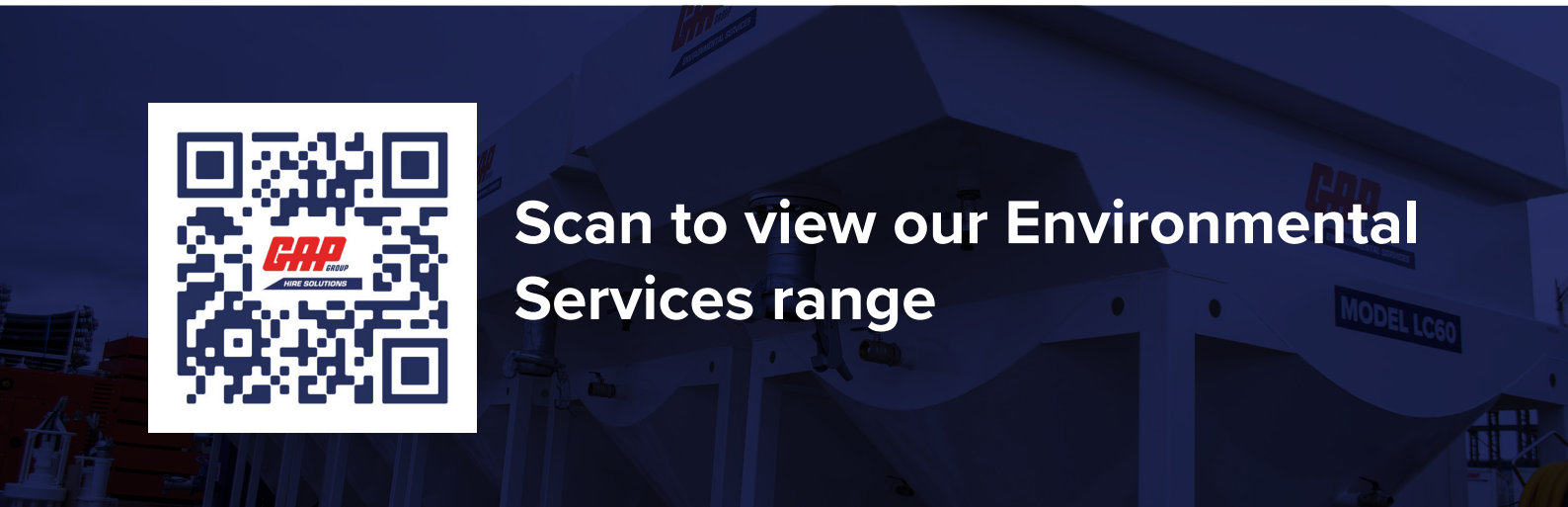
| TECHNICAL SPECIFICATIONS | |
|---|---|
| GAP Code | EPBB001 |
| Model | BB17 Biological Reactor |
| Dimensions (L x W x H) | 3.69 x 2.59 x 3.43 (meters) |
| Operating Water Level | 3200mm |
| Empty Weight | 5000kg |
| Operating Weight | 23000kg |

| PROCESS | |
|---|---|
| Media Surface Area | 800$m^2/m^3$ |
| BOD Removal Rate | 31kg/day |
| Ammonia Removal rate | 6.2kg/day |

| CONNECTIONS | |
|---|---|
| Inlet Port | 6” Female Bauer |
| Outlet Port | 6” Male Bauer |
| Drain Port | 2 x 4” Male Bauer |
| Panel Supply | 415V 32A 5-Pin |

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