# EQUIPMENT

QUIPTEC

WASTEWATER, CLEAN-GAS & ENVIRONMENTAL SOLUTIONS


## PACKAGED SEWAGE TREATMENT PLANT

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• **Efficient Biological Treatment Process:** Utilises anaerobic, anoxic, and aerobic treatment stages to effectively remove organic pollutants and nutrients from wastewater.

• **Compact & Decentralised Solution:** Designed for on-site treatment, eliminating the need for extensive sewer networks and enabling flexible installation in remote or space-limited areas.

• **Durable & Long Service Life:** Constructed with high-strength SMC materials and premium resin, providing excellent corrosion resistance and long-term structural integrity.

• **Stable & Reliable Performance:** Standardised manufacturing and integrated biological media ensure consistent treatment efficiency under varying operating conditions.

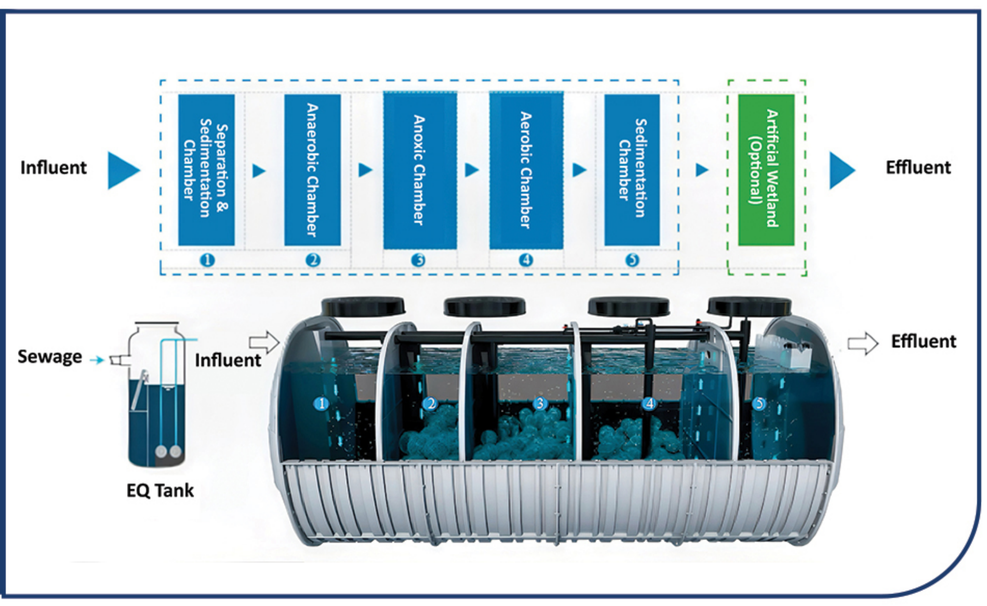
• **Low Energy Consumption & Operating Cost:** Energy-efficient design reduces power usage while minimising operational and maintenance costs.

• **Reduced Sludge Generation:** Optimised biological process reduces excess sludge production and simplifies sludge handling requirements.

• **Easy Installation & Maintenance:** Pre-fabricated structure allows quick installation, with simple operation and optional remote monitoring for improved system management.

## Working Principle

The Packaged Sewage Treatment Plant operates through a biological treatment process combining anaerobic, anoxic, and aerobic stages.
Wastewater from domestic sources first undergoes preliminary treatment, including grease separation and primary settling. The collected wastewater then enters the system, where it is treated through sequential biological zones. Microorganisms break down organic matter, while nitrification and denitrification processes remove nitrogen compounds.
The treated water passes through sedimentation and disinfection stages before being discharged or reused. Excess sludge is periodically removed to maintain system performance.




## Features

### Standard Features

- A/A/O biological treatment process for efficient pollutant removal
- SMC reinforced tank construction for high strength and corrosion resistance
- Reliable water distribution system for uniform flow and improved treatment efficiency
- Corrugated structural design for enhanced mechanical strength and durability
- Advanced bio-media for rapid microbial growth and stable treatment performance
- Integrated nitrogen and phosphorus removal capability
- Low sludge production for reduced maintenance requirements
- Compact, fully integrated system for easy installation and operation

### Options & Accessories

- Remote monitoring and control system
- Customised capacity and configuration based on project requirements
- Additional disinfection or polishing units
- Installation options for above ground or underground applications

## Specifications and Parameters

| Model | Capacity ($m^3/d$) | Dimensions (mm) | Manhole (mm) | Blower Power (W) | Main Material |
|---|---|---|---|---|---|
| AQT-0.5 | 0.5 | 1950×1170×1080 | Φ400×2 | 38 | SMC |
| AQT-1 | 1 | 2400×1300×1400 | Φ400×2 | 45 | SMC |
| AQT-2 | 2 | 2130×1150×1650 | Φ630×2 | 55 | SMC |
| AQT-5 | 5 | 2420×2010×2000 | Φ630×2 | 110 | SMC |
| AQT-8 | 8 | 3420×2010×2000 | Φ630×3 | 110 | SMC |
| AQT-10 | 10 | 4420×2010×2000 | Φ630×4 | 170 | SMC |
| AQT-15 | 15 | 5420×2010×2000 | Φ630×5 | 220 | SMC |
| AQT-20 | 20 | 7420×2010×2000 | Φ630×6 | 350 | SMC |
| AQT-25 | 25 | 8420×2010×2000 | Φ630×6 | 470 | SMC |
| AQT-30 | 30 | 10420×2010×2000 | Φ630×6 | 470 | SMC |
| AQT-40 | 40 | Φ2500×8500 | Φ630×6 | 750 | GRP |
| AQT-50 | 50 | Φ2500×10500 | Φ630×6 | 1500 | GRP |
| AQT-60 | 60 | Φ2500×12500 | Φ630×6 | 1500 | GRP |
| AQT-70 | 70 | Φ3000×10000 | Φ630×6 | 1500 | GRP |
| AQT-80 | 80 | Φ3000×11500 | Φ630×6 | 2200 | GRP |
| AQT-90 | 90 | Φ3000×13000 | Φ630×6 | 2200 | GRP |
| AQT-100 | 100 | Φ3000×13500 | Φ630×6 | 2200 | GRP |

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