



COMMERCIAL WASTEWATER TREATMENT SYSTEM

FUJICLEAN ACE3000

Owner's Manual



Dear Customer,

Thank you for choosing a FujiClean Wastewater Treatment System. Please read this owner's manual carefully before using FujiClean ACE3000 and keep for future reference.

The information contained in this manual is subject to change without notice. Please contact us via www.fujiclean.com.au for current updates.

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1 SAFETY PRECAUTIONS

Read the safety precautions carefully before operating the system.

The contents of this section are vital to ensure safety. Please pay special attention to the following signs.

 **WARNING:** This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

 **CAUTION:** This symbol refers to a hazard or unsafe practice which can result in personal injury and/or the potential for product or property damage.

WARNING

Electrical safety

- Do not open the electrical box. There are no user serviceable parts inside. The system shall be maintained by a service agent approved by the local council.

Fall prevention

- Make sure the access covers are securely closed to prevent children from entering the tank.
- Report to the service agent if any cracks or damage is found on the access covers.

CAUTION

Preventing overload on the tank

- No vehicle shall approach within installed area of FujiClean system. Always maintain the system installed area free of all vehicle traffic. Parking a vehicle nearby the system may cause significant damage to the system.

Prevention of public health risk

- Do not use treated water for human consumption, livestock watering or irrigating edible crops.

Access Cover Lids

- Make sure there is no vehicular traffic loads applied on the access cover lids during the installation and operations. Unless there is any reason, please refrain from standing on the access cover lids.

2 OVERVIEW

What is an AWTS?

An Aerated Wastewater Treatment System (AWTS) is a small-scale onsite sewage treatment plant. An AWTS uses the processes of aeration followed by clarification to achieve biological treatment of wastewater.

FujiClean ACE3000 is an AWTS designed to comply with the Australian Standard 1546.1 and 1546.3 (2017) and to meet each state and territory in Australia's regulatory requirements.

FujiClean ACE3000 Treatment System



FujiClean ACE3000 is designed to treat the commercial wastewater from the kitchen, bathroom, toilet, and laundry area and is capable of producing **Advanced Secondary Quality Effluent** as specified below. The daily design flow rate of FujiClean ACE3000 is 3,000 L/day.

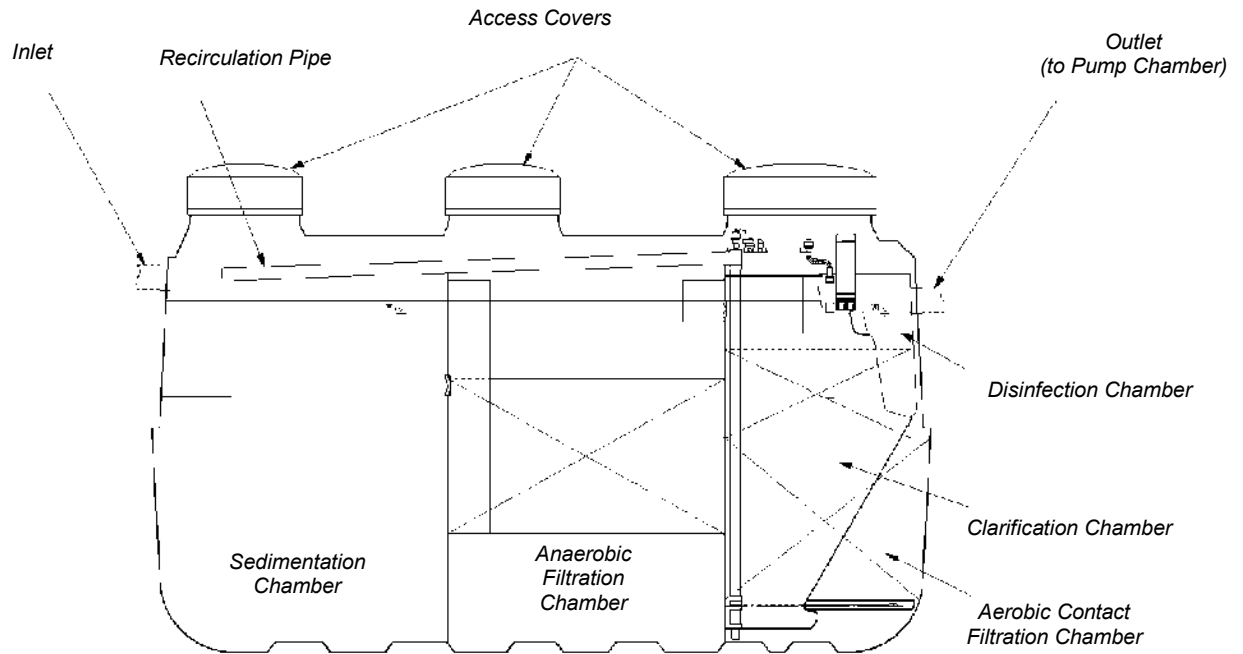
- BOD equal to or less than 10mg/L
- Suspended Solids equal to or less than 10mg/L
- Thermotolerant coliform less than 10cfu/100mL

Final effluent quality will be determined by a number of factors. Your installer and your service agent will offer advice, and monitor the system at service, and report to you accordingly.

What is BOD?

Biochemical Oxygen Demand (BOD) is a standard measure of water quality. It is a measure of the amount of oxygen (mg/L) consumed by natural, biological processes, like bacteria, which break down organic matter. A higher BOD indicates poor quality of water.

3 TREATMENT PROCESS



Sedimentation Chamber

This chamber is designed to physically separate the solids from the incoming water.

Anaerobic Filtration Chamber

This chamber contains a spherical skeleton media. Through bacterial growth processes on the surface of the filter media, biological anaerobic treatment thrives while suspended solids are captured. Furthermore, the bacteria in this chamber convert nitrates in the recirculated water returning from the aerobic chamber to gaseous nitrogen. The nitrogen then escapes to the atmosphere.

Aerobic Contact Filtration Chamber

The aeration chamber consists of upper section with net-block media and lower section with net-hollow-cylindrical media. Organic matters are decomposed by micro-organism/bacteria on the media surface while suspended solids are captured in media. Furthermore, suspended solids accumulated on the bottom are constantly transferring to the sedimentation chamber by a recirculation air-lift pump.

Clarification Chamber

This chamber is designed to temporarily store treated water flowing from the aeration chamber. In this chamber, the suspended solids settle to the bottom and are returned to the sedimentation chamber.

Disinfection Chamber

The treated water from the clarification chamber passes through the chlorinator for final disinfection. This is the final process of treatment.

Pump Chamber (Separate, and supplied by others)

This treated water is ready for discharge to the dispersal area.

4 MAINTAINING YOUR SYSTEM

Owner's Responsibilities

The owner is responsible for:

- Ensuring the system is always operating efficiently.
- Promptly fixing the system when a problem is detected.
- Ensuring the system is inspected and serviced quarterly by a qualified service technician.
- Ensuring the system is desludged when it is required.

To ensure the overall health and performance of your FujiClean wastewater treatment system, FujiClean Australia recommends a desludge of the system every 3 years, or earlier if the maximum accumulated sludge and scum levels are reached as specified by the manufacturer. The desludge frequency will depend on sludge and scum accumulation levels, which varies depending on usage. Your FujiClean service agent will measure the sludge depth at every service interval and will advise you when desludging is required.

⚠ **CAUTION:** Any problems caused due to the neglect of the quarterly service being carried out or disregarding desludging advice from your FujiClean service agent will immediately void warranty.

Tips for Trouble-Free Operation

Below is a guide on good maintenance procedures, which you should follow:

- Keep your water usage well below the system's daily design flow rate.
- Do not switch off the power to the system even if you are going on holidays. If extended periods of non-use are anticipated, contact your service agent.
- Do not use more than the recommended amounts of detergents.
- Do not put fats and oils down the drain and keep food waste out of your system.
- Do not put bleaches, disinfectants, whiteners, nappy soakers, spot removers in large quantities into your system via the sink, washing machine or toilet.
- Do not allow foreign objects such as sanitary napkins, nappies, baby wipes, and other hygiene products to enter the system.
- Do not dispose of chemicals down the drain. The list below shows examples of chemicals which are considered harmful to the system.
 - Medicines
 - Paint, Paint Thinners and Paint Strippers
 - Solvents
 - Pesticides and Herbicides
 - Motor Oil, Petrol, Antifreeze, Break Fluid and Other Automotive Fluids

Regular Maintenance

The effective operation of the system is dependent on regular maintenance. It is to be serviced **EVERY 3 MONTHS** by a FujiClean authorised service agent.

Regular maintenance includes periodic removal of excessive sludge and scum build-up from the system. The frequency of removal depends on the system's loading.

Consumable parts for the blower such as air filter and diaphragms need to be replaced regularly. The recommended replacement interval for these parts is between 12 months to 24 months.

Irrigation Area/Disposal

There are certain requirements and laws for the irrigation system for the disposal/reuse of the treated wastewater. The irrigation system must be designed and installed by qualified professionals by law, and in accordance with the requirements of your local, state and/or Australian standards.

5 OPERATION OF REMOTE ALARM PANEL

POWER	On steady: Power is OK. Flashing: Wireless Link or Wi-Fi error (refer to corresponding LEDs to confirm).
PUMP ALARM	Off: No high level; pump is OK. Flashing: Pump alarm has been triggered.
AIR BLOWER ALARM	Off: Air blower is OK. Flashing: Air blower alarm has been triggered.
WIRELESS LINK	Off: Not paired to a treatment monitor. On steady: Currently connected to monitor. Will blink off occasionally to indicate data transfer. Flashing: Pairing mode or error.
WIFI STATUS	Off: Wi-Fi not configured or WiFi error. On steady: Wi-Fi connected. Will blink off occasionally to indicate data transfer. Flashing: Pairing mode or error.

MUTE Button
Pressing this button will silence the alarm for 24 hours.

PAIR Button
Use a pen or pointed object to press this button.

USB-C Power Input
Use the supplied USB-C power supply.

Buzzer output



Please keep the alarm device always powered on using the supplied power cord.



Make sure that the Wireless Link indicator is on. If it is not steadily on, the pairing with the Fuji Tank may not be complete. In that case, please contact your installer or maintenance provider to complete the pairing process.

In the event that an alarm is triggered, please promptly notify your contracted maintenance provider.

6 WARRANTY & REPAIR POLICY

Warranty Period

- **Structural tank:** 15 years from the date of commissioning
- **Riser, Blower Box, Access Cover Lids:** 2 years from the date of commissioning
- **Electrical components:** 2 years from the date of commissioning

Scope of Warranty

FujiClean Australia would repair defects of a FujiClean wastewater treatment system for free of charge when it was confirmed that the system was installed by a licensed plumbing contractor and serviced quarterly by an approved FujiClean service agent AND the defects in structure and function was caused by responsibility of manufacture within the above warranty period.

However, the repair would NOT be covered by FujiClean Australia when:

- consumable parts (i.e. disinfectant, diaphragm assembly, air filter) failed.
- there is no service agreement in place between customer and service agent.
- the system was not properly installed as per the installation instructions.
- the electrical components were not properly wired or mounted as per the Wiring Instruction.
- the system has broken down or was damaged as a result of retrofitting, improper repair, or any other changes outside the instruction manual.
- the damage occurred a result of moving the electrical parts (i.e. air blower).
- the damage occurred by heavy loads or vibration of any vehicle.
- the damage resulted from natural disasters such as flood, fire, earthquake or lightning, problems with electrical power such as power surges or incorrect voltages.
- the damage resulted from any other accident, inappropriate handling, machine or building foundation, foreign objects or chemicals.
- any trouble caused by excessive amount of inflow and foreign substances as described in “FujiClean ACE3000 Treatment System” on page 2.

Contacts

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Website: www.fujiclean.com.au
Email: info@fujiclean.com.au

WARRANTY

The rights expressed in this warranty are in addition to other consumer rights and remedies under a law in relation to the goods or services to which the warranty relates.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The FujiClean product is warranted by FujiClean Australia Pty. Ltd. against defects in material and workmanship, under normal use and service, for the following warranty periods from the date of commissioning.

Structural Tank:	15 years	Electrical Components:	2 years
Access Cover Lids, Risers, Blower Box:	2 years	Other components:	2 years

Within the warranty period, any component forming part of the FujiClean Product which is determined by FujiClean Australia to be defective will be repaired or replaced by an authorised FujiClean service agent.

This warranty only applies if the product has been installed in accordance with the manufacturer's installation guidelines and serviced by a FujiClean Australia's authorised agent. The warranty does not cover damage resulting from use of accident, incorrect installation, misuse, neglect of periodical service and desludge, blockages, abuse, heavy loads such as any vehicle, machine or building foundation, foreign objects, root intrusion, chemicals, natural disasters such as flood, fire, earthquake or lightening, problems with electrical power such as power surges or incorrect voltages, repairs by unauthorised persons or exposure to abrasive or corrosive substances. This warranty does not apply to and shall not warrant any material or product that has been repaired or modified without prior approval from the manufacturer. This warranty does not cover consumable items unless the fault, defect existed at the time of purchase. Labour and travel related time and expense to replace any faulty parts including call out fee is not covered by the warranty.

Please fill out the following details completely and store in a safe place. To claim under this warranty, owner should contact FujiClean authorised service agent or FujiClean Australia Pty. Ltd.

Owner Details

Name:

Address:

..... Postcode:

Phone: Email:

Product Model Number: FujiClean ACE3000

Serial Number: Date of Commissioning: / /

Installer Details

Company:

Address:

..... Postcode:

Phone: Email: