

FujiClean ACE 1200

Advanced Secondary quality effluent AWTS / ATU / STS.

Treatment capacity: Up to 1200 LPD or 8 Equivalent people at 150 LPD

Typical ready to go treatment plant



Ex-factory: Ready for dispatch on pallet. 2.53 m x 1.435 m x 2.35 m (300mm riser model) and 510 kg. Manufactured with hand laminated fibreglass. Manufacturing plants in Yatala QLD and Mordialloc Victoria. Depots and authorised distributors across the Nation.



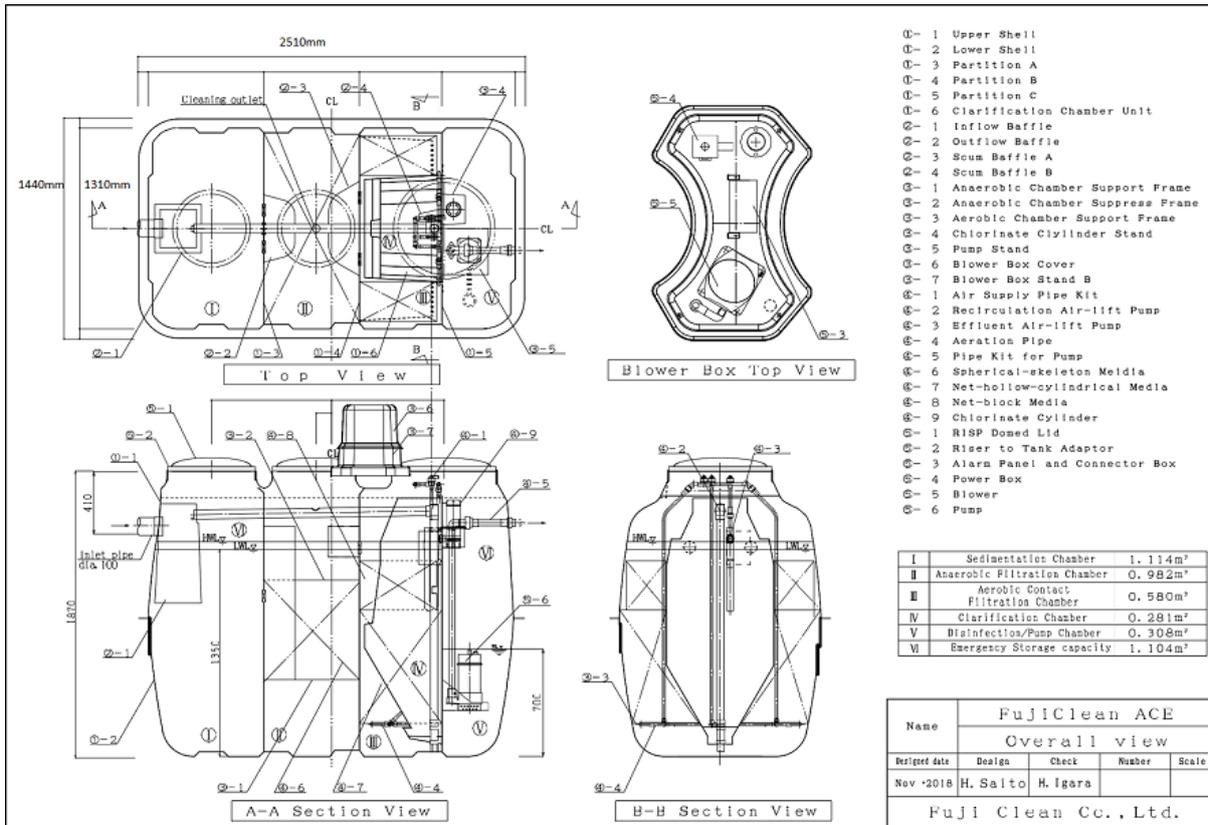


2.5 mtr x .7 mtr foot print after installation.

The ACE 1200 receives and treats the wastewater from the whole household. Toilets, bathrooms, laundry and kitchen. Advanced treated effluent is achieved by the whole process, including anaerobic and aerobic treatment. Microbes digest the waste throughout the three chambers, nitrogen is dramatically reduced by recirculation and consumption. Pathogens are removed (when required) by disinfection after the airlifting of the effluent from the clarification chamber. For best results, the influent should be free of any harmful products that will kill off the microbes.

Australian standard testing results.

Test Schedule	Rate	Overall averages (Influent) (34 weeks)	Effluent test results (34 week average)
TSS	mg/l	338.8	2.71
BOD ₅	mg/l	355.6	< 2
Ammonia	mg/l	56.7	2.24
Nitrite	mg/l	< .01	.97
Nitrate	mg/l	.05	6.21
Total nitrogen	mg/l	70.63	14.79
Phosphorus	mg/l	12.08	10.33
PH	-----	8.4	7.3
Alkalinity	-----	240	129.00



Why FujiClean

1. First manufactured in the 1960's.
2. Millions of units installed.
3. Advanced, compact, and efficient treatment plants
4. National distributor network for installation and ongoing service
5. Small foot print
6. Manufactured in Australia
7. Low electric pump and blower running costs. (\$200-\$300 per year).
8. Ease of installation.

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Power Usage

The FujiClean ACE 1200 Domestic AWTS is 100% compatible with homes using a stand-alone solar power system.

For the system to operate correctly it requires: A stable and continuous connection to a 10 amp 240V AC +/- 5% maximum and a frequency of 50Hz.

- A suitable inverter is to be used.
NOTE: Must allow for the ACE1200 energy requirements.
- The power supply to have sufficient capacity to run all components without the voltage supply dropping when the load is applied.
- A contingency plan if the house experiences long periods without power.
NOTE: like any AWTS, prolonged periods without power will cause the bacteria to die off and result in system failure.

A standard 4 person household uses an average of 600-800L per day.

FujiSub 4520 submersible pump with a 20m head has a flowrate of 45L/min.

An average pump cycle for the FujiClean ACE 1200 is 10 minutes. Therefore with average loading, the FujiSub 4520 will activate and cycle 2-3 times per day.

Used for subsurface irrigation disposal.

FujiSub 756 submersible pump with an 8m head has a flowrate of 20L/min.

An average pump cycle for the FujiClean ACE 1200 is 15 minutes. Therefore with average loading, the FujiSub 756 will activate and cycle 2-3 times per day.

Used for surface irrigation disposal.

MAC100RII Air Blower runs 24 hours/day and provides 100L of aeration per minute.

Electrical Component	Startup Amps	Run Wattage / Amps	Daily Usage
MKII Treatment Monitor Unit	3 W	3 W	24 hours
MAC100 RII Air Blower	Less than 0.6A	68 Watts 0.28 A	24 hours
FujiSub 756 Submersible Pump	Less than 3.0 amps	550 watts 2.1 A	0.6 hours
FujiSub 4520 Submersible Pump	Less than 5.5 amps instant	800 watts 3.2 A	0.6 hours
FujiSub 5025 Submersible Pump 50 LPM at a 25 mtr head	Less than 7.0 amps	1000 watts 4.0 A	0.6 hours

NOTE: Only one type of submersible pump is required. If you require any further information on the FujiClean ACE-1200 energy requirements please contact FujiClean Australia Head Office on [1300 733 619](tel:1300733619) or info@fujiclean.com.au