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Aerobic Treatment

OPTIONAL EXTRAS | **MAY 2025**



Aerobic Treatment Units (ATU)

Hydraulic loading as per "Regulation 29 and Schedule 9" of the Department of Health for an Eco-tourism accommodation facility/tent site/caravan park bay is 140L per day per person.

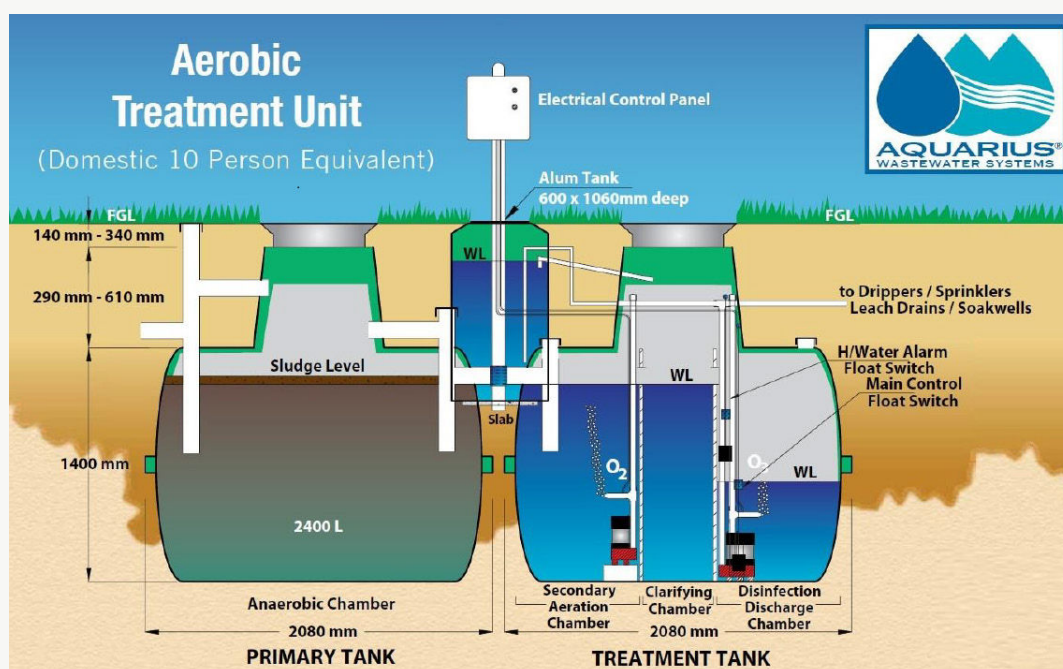
- 1 Tent 2 people - $140L \times 2 = 280L$
- 5 tents 10 people - $140L \times 10 = 1400L$
- 10 tents 20 people - $140L \times 20 = 2800L$
- 20 tents 40 people - $140L \times 40 = 5600L$

All units come with pedestrian covers as standard, heavier load classes available on request. *Disposal Fields will be dependent on site and soil conditions for individual cases and will be priced accordingly, a generic example of each type will be listed below.*

Eco Tent	Unit Required	Agent Cost (AUD) Supply Ex Works
1-5 Tents	O-2NR - 1.8KL	\$9,300.00 +GST
5-10 Tents	2 x O-2NR - 4KL	\$18,590.00 +GST
10-20 Tents	O-2NR - 6KL	\$24,100.00 +GST
20-30 Tents	O-2NR - 10KL	\$33,300.00 +GST

*Prices Indicating April 2023. POA

*Please note Systems become commercial grade from 6KL upwards



Generic Examples

For sandy soils to suit O-2NR – 1.8KL Only to be used as a guide for information purposes.

1. FLATBED LEACH DRAINS

The flatbed leach drains are supplied with the distribution pipes, sockets, end plugs, 40mm round to square fittings, geotextile cloth and a 2-port automatic diversion valve.

Standard 10m (2 x 5m configuration) Price: \$1,540.00 plus GST supply only Ex works



2. SUBSURFACE DRIP IRRIGATION

For Landscaping Area/Beds – The 150m² Subsurface Dripper Field (8LPH dripline at 1m spacing – Product Code DF150K) comes as a kit which includes an Arkal disc filter and all required components. Price also includes pump upgrade to accommodate drippers.

Price: \$1050.00 plus GST supply only Ex works



Accordingly as the systems increase in capacity the disposal field will need to increase to allow for the additional loading.

Please contact Aquarius Wastewater Systems for individual project pricing.



Aquarius System Proposal

OUR PROPOSAL INCLUDES THE SUPPLY ONLY OF:

- An Aquarius System in plastic tanks suitable for installation in a non-trafficable area; as well as any associated pumps, control panels and fittings as shown on attached drawing. The prices quoted above are based on an invert level of the sewer drains entering the Primary Tank of the ATU to be 650- 850mm from FGL.
- Supply of Flatbed Leach Drains or Subsurface Drip Irrigation Kit (if selected)

OUR PROPOSAL EXCLUDES:

- Installation and commissioning
- Delivery of Equipment to Site
- Feeder pipe from ATU to disposal area
- The provision of a concrete pump up tank if required, nor any associated pumps, control panels, fittings, transportation or installation
- Any electrical work

INSTALLATION

Aquarius Wastewater Systems is a distributor of ATU's and affiliated products and does not carry out installations. We however can put you in contact with trained agents that can install, service and commission the system for you.

NB: Installation and commissioning to be by a third-party independent contractor, ... That you are required to contract with directly for these services.

SERVICE AND MAINTENANCE

As a Department of Health's requirements, the system requires six monthly servicing and needs to be serviced by an AWS approved Service Agent that is registered with the Department of Health WA. For pricing, an accurate quote will need to come from a service agents. Costs vary according to location – estimate \$250.00-350.00 plus GST.

ELECTRICAL / POWER REQUIREMENTS

Our ATU's Power requirement for systems up to 4KL is single phase, 240-volt, 50 Hz, 20-amp. This is required to be on an independent separate, D circuit breaker, within the distribution board of the house (minimum 2.5 mm cable). For ATU's 6KL and above an independent separate D circuit breaker will also be required however it will need to be a 32-amp rating. Power cable to the ATU control panel is the responsibility of the owner/builder.

WARRANTY CONDITIONS

The system must be installed, commissioned and serviced by an AWS approved Installer and Service Agent that is registered with the DoH WA. A copy of the local Council "Permit to Use", signed Service and Maintenance Agreement and completed Warranty Form must be supplied to Aquarius Wastewater Systems upon completion of the job to validate all warranties.



Domestic Units

AQUARIUS® O-2 NR 1.8KL ATU		Copyright © Copyright of this drawing is retained by Aquarius and shall not be copied, retained or otherwise used without approval.	
ELEVATION	Duralen Plastic Tanks 2 x 2700 Carat Tank with baffles	Single Discharge	Invert Level 650mm to 850mm (adjustable with Risers)
		Tank Capacities (L): Primary Chamber : 2400 Secondary/Aeration Chamber: 875 Clarifying Chamber : 650 Discharge Chamber : 875 Discharge Volume: 170	
		Effluent Quality Performance Criteria: Parameters & Specification Total Suspended Solids: <30mg/L Biological Oxygen Demand: <20mg/L pH: 6.5 - 8.5 Structural integrity: 15 years (tanks) Serviceability min 15 years System complies with AS/NZS 1547:2012 & 1546.3	
		Treatment Performance: Maximum: 1800 Litres per day Minimum: 180 Litres per day	
		CERTIFICATION PROCESS ENGINEER: Olaf Stams, State Qualified Technician ATST Kiel Germany Environmental Technology/Process Engineering DATE: 16.01.2018 SIGNATURE: <i>[Signature]</i>	FOOTPRINT
		All measurements are in millimetres unless specified otherwise	

AQUARIUS® 10KL O-2NR ATU

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ELEVATION	Duralen Graf Plastic Tanks	1 x 6500 GRAF-Carol Tank	2 x 3750 GRAF-Carol Tanks	1 x 3750 GRAF-Carol Tank with baffle	Dual Discharge
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Primary
Secondary
Aeration
2 x Submersible Pump (aerator)
2 x Inceptor
Clarification
Discharge
2 x Submersible Pump (discharge)

Invert Level 600mm - 1150mm
(adjustable with Risers)

Tank Capacities (L):

Primary Chamber Capacity: 6500
Secondary Chamber Capacity: 3450
Aeration Chamber Capacity: 3450
Clarifying Chamber Capacity: 1725
Discharge Chamber Capacity: 1725
Discharge Volume: 400 - 600

Effluent Quality Performance Criteria:

Parameters & Specification
Total Suspended Solids: <30mg/L
Biological Oxygen Demand: <20mg/L

pH: 6.5 - 8.5

Structural integrity: 15 years (tanks)
Serviceability min 15 years

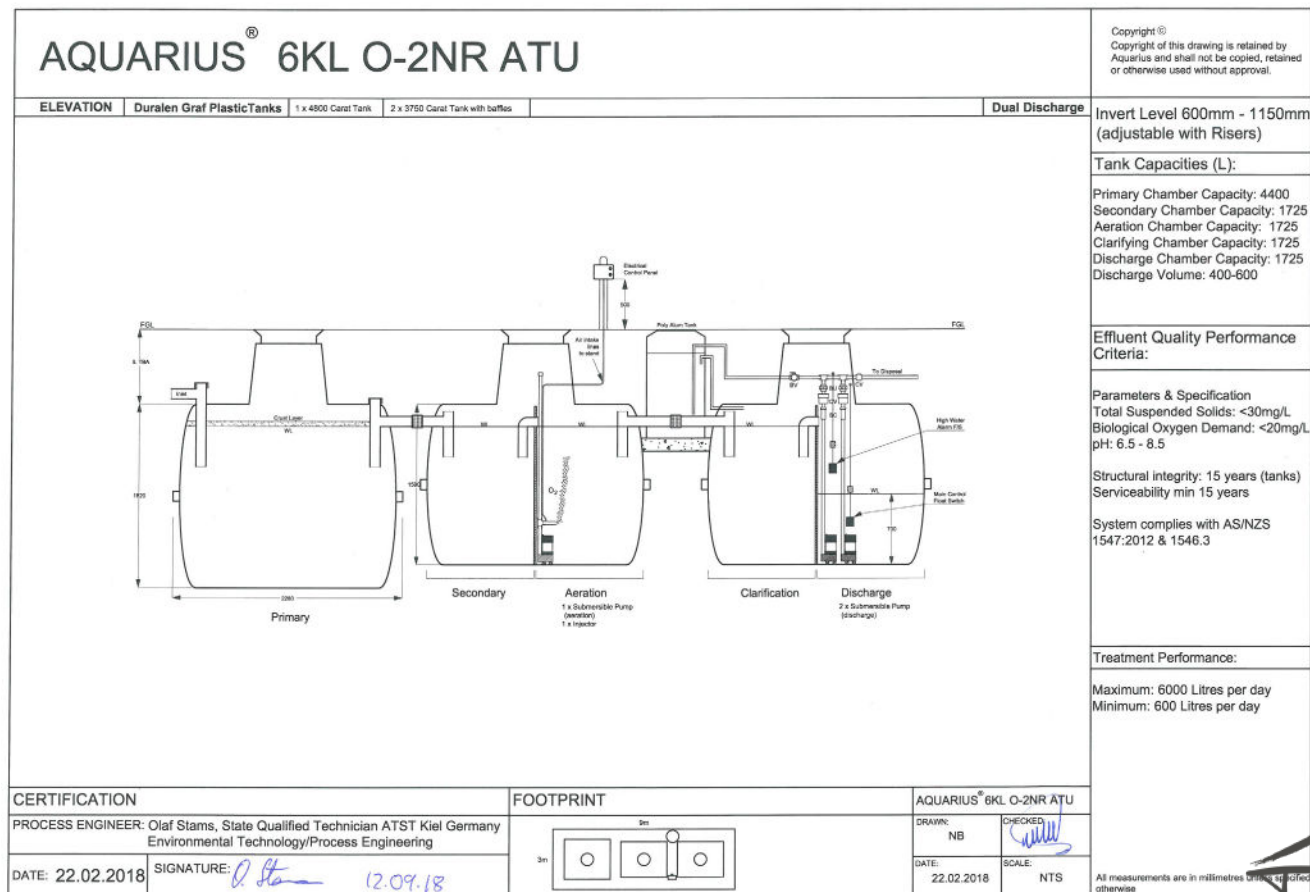
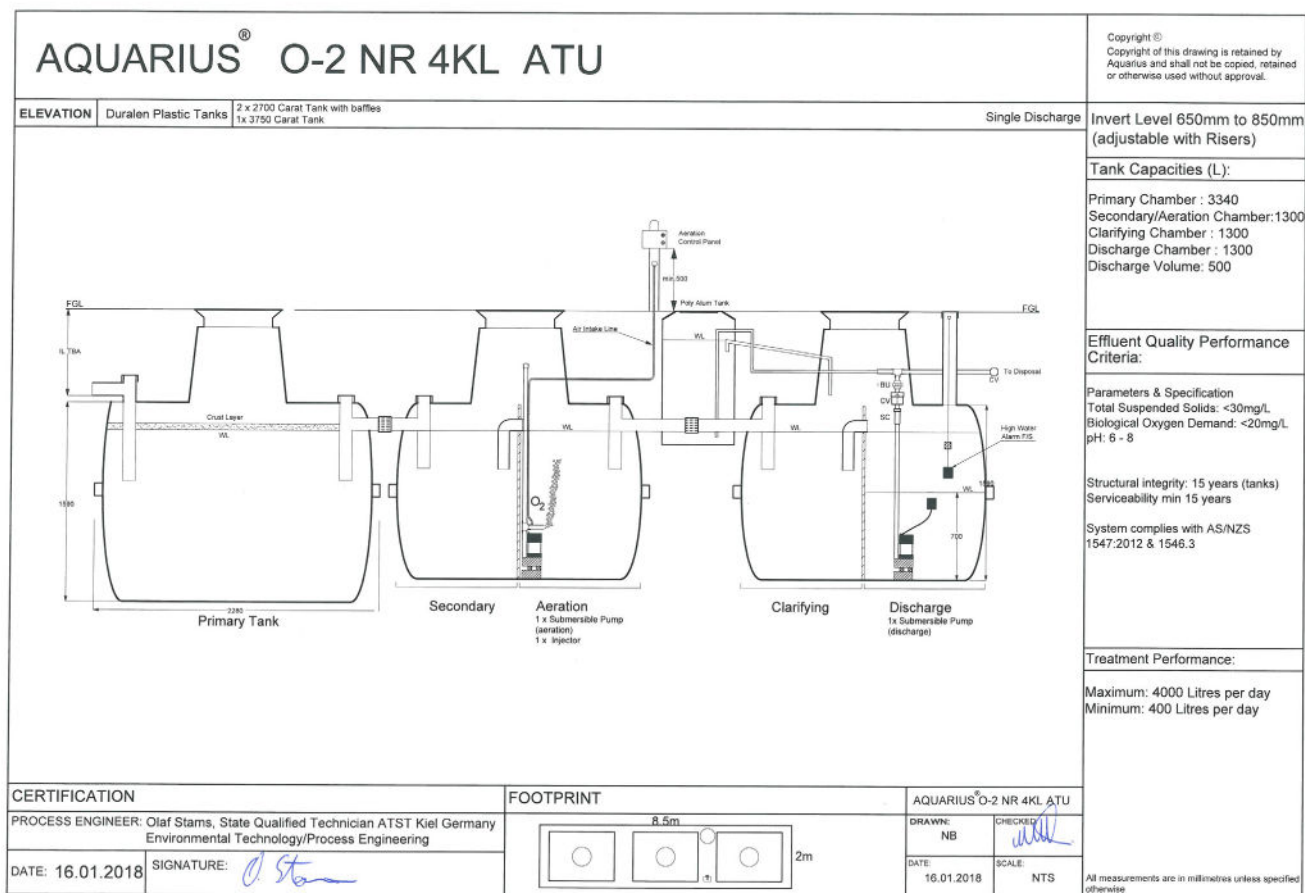
System complies with AS/NZS
1547:2012 & 1546.3

Treatment Performance:

Maximum: 10'000 Litres per day
Minimum: 1000 Litres per day

CERTIFICATION PROCESS ENGINEER: Olaf Stams, State Qualified Technician ATST Kiel Germany Environmental Technology/Process Engineering DATE: 22.02.2018	FOOTPRINT	AQUARIUS® 10KL O-2NR ATU <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN: NB</td> <td style="width: 50%;">CHECKED: <i>[Signature]</i></td> </tr> <tr> <td>DATE: 22.02.2018</td> <td>SCALE: NTS</td> </tr> </table> All measurements are in millimetres unless otherwise stated	DRAWN: NB	CHECKED: <i>[Signature]</i>	DATE: 22.02.2018	SCALE: NTS
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Commerical Units





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LUXURY EXPERIENTIAL ACCOMMODATION

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