

HEALTH (TREATMENT OF SEWAGE AND DISPOSAL OF EFFLUENT AND LIQUID WASTE) REGULATIONS 1974

SECONDARY TREATMENT SYSTEM APPROVAL

This is to certify that the Taylex Advanced Secondary Treatment System:

Model Designation	Concrete ABS 1500 Poly PABS 1500 Concrete ABS 5000
Manufactured by:	Taylex Industries Pty Ltd 56 Prairie Road Ormeau QLD 4208
DoH Approval Number:	F-AA-51817

is approved by the Chief Health Officer under the Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974 for use within Western Australia in accordance with the conditions specified in Schedules 1 and 2.

Date of Issue: 26 February 2024
Date of Expiry: 19 August 2025

This approval is valid until 19 August 2025 with Taylex Australia Pty Ltd Global certification number 40/22 and 40/24 or until withdrawn by the Chief Health Officer

Kichard Theobald

delegate of

CHIEF HEALTH OFFICER

26 February 2024

APPROVED 2 26 FEB 2024 CHO OF WA

SCHEDULE 1: GENERAL DESCRIPTION

Specification Summary		Taylex Concrete ABS 1500 & Poly PABS 1500	Concrete ABS 5000
Maximum daily influent volume		1500 L/day (10EP)	5000L/day (33EP)
Disinfection n	nethod	Chlorine	Chlorine
A	BOD	1.5mg/l	1.07mg/l
Average results over the testing period to AS1546.3:2017	TSS	7.6mg/l	6.12mg/l
	Turbidity	31.1 NTU	8.51NTU
	E. coli	1.4cfu/100mL	0.41 CFU/100ml
	TN	-	45.68mg/l
	TP	-	9.21mg/l



SCHEDULE 2: CONDITIONS OF APPROVAL



1. General

- **1.1** No alteration to the design or specification of the Taylex ADVANCED SECONDARY TREATMENT SYSTEM shall occur without prior approval of the Chief Health Officer.
- **1.2** Any changes to the design or the construction of the Taylex ADVANCED SECONDARY TREATMENT SYSTEM shall be submitted for assessment and approval to the Department of Health before being made commercially available in Western Australia.
- **1.3** Conditions of approval may be varied or withdrawn at the discretion of the Chief Health Officer.
- **1.4** Each Taylex ADVANCED SECONDARY TREATMENT SYSTEM shall be permanently and legibly marked on a non-corrosive metal plaque or equivalent, attached to the lid with the following information:
 - The brand name of the system;
 - The manufacturer's name or registered trademark;
 - The month and year of manufacture.
- 1.5 The manufacturer shall provide the following information to each Local Government where it is intended to install an ATU in their area once Departmental Approval has been obtained:
 - Statement of warranty
 - Statement of service life
 - Quality Assurance Certification
 - Installation Manual
 - Service Manual
 - Owner's Manual
 - Service Report Form
 - Engineering Drawings
 - Detailed Specifications
 - Approval documentation from Department of Health WA.

2 Installation and Commissioning

2.1 For each installation, an application for approval to install shall be in the form of an application to install an apparatus as required under the Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974). Each application for installation shall be made to the Local Government and include full plans and specifications, a completed Application to Construct or Install an Apparatus for the Treatment of Sewage form, and pay all fees as prescribed.

- 2.2 Installation of each Taylex ADVANCED SECONDARY TREATMENT SYSTEM shall be carried out only by installers authorised by Taylex Industries Pty Ltd.
- 2.3 Taylex **ADVANCED SECONDARY** The installation of each TREATMENT SYSTEM shall comply with Part 2 of the Department of Health "Code of Practice for the Design, Manufacture, Installation and Operation of ATUs Serving Single Dwellings, November 2001".
- 2.4 The Local Government should require that on completion of the installation of each Taylex ADVANCED SECONDARY TREATMENT SYSTEM, the system is inspected and checked by the manufacturer or the manufacturer's agent. The manufacturer or the agent is to certify that the system has been installed in accordance with Part 2 of the Department of Health Code of Practice for the Design, Manufacture, Installation and Operation of ATUs Serving Single Dwellings, November 2001 and commissioned in accordance with its design, conditions of Approval and any additional requirements of the Local Government.
- 2.5 All necessary measures shall be taken by Taylex Industries Pty Ltd (or their authorised agents) as directed by the Chief Health Officer to rectify any Taylex ADVANCED SECONDARY TREATMENT SYSTEM installation should it be demonstrated to fail in meeting condition (2.4) above.
- 2.6 The Local Government should require that all electrical work must be carried out by a licensed electrician and in accordance with the relevant provisions of AS/NZS 3000.
- 2.7 The Taylex ADVANCED SECONDARY TREATMENT SYSTEM shall be supplied, constructed and installed in accordance with the design as submitted and accredited by the Department of Health WA.
- 2.8 The tank lid must:
- ORETMENT OF THE be a minimum of 100mm above landscaped ground le
 - not have any structure erected above it

not be subject to vehicular traffic and heavy pedestrian traffic

2.9 The manufacturer shall supply with each Taylex ADVANCED SECONDARY TREATMENT SYSTEM an owner's manual, which sets out the care, operation, and maintenance and on-going management requirements of the system.

Maintenance and Servicing 3

3.1 The Local Government shall require the owner/occupier of a premise to enter into a 3 monthly service contract with an authorized service person that is authorized to service Taylex ADVANCED SECONDARY TREATMENT SYSTEM.

- **3.2** The Taylex ADVANCED SECONDARY TREATMENT SYSTEM shall be serviced at three (3) monthly intervals in accordance with the details set out in the owner's and service manual.
- **3.3** Each three monthly service shall include a check on all mechanical, electrical and functioning parts of the system including:
 - Pumps and air blower
 - The control panel and alarm system
 - Slime growth on the filter media
 - The operation of the chlorine disinfection unit
 - The operation of the sludge return system
 - Sludge built up in the sedimentation Chamber
 - On-site testing for free residual chlorine, pH and dissolved oxygen
 - The effluent irrigation area
- **3.4** The Local Government should require that a service report sheet, in triplicate, is completed for each service. The original shall be given to the owner, the duplicate forwarded to the Local Government and the triplicate retained by the service contractor.

4 On-going Management

- **4.1** The owner's manual prepared by the manufacturer shall contain a plan for the on-going management of the Taylex ADVANCED SECONDARY TREATMENT SYSTEM. The plan shall include details of:
 - the treatment process
 - procedures to be followed in the event of a system failure
 - emergency contact numbers
 - maintenance requirements
 - inspection and sampling procedures to be followed as part of the on-going monitoring program developed by the Local Government.
- **4.2** Effluent from the Taylex ADVANCED SECONDARY TREATMENT SYSTEM taken in any random grab sample shall comply with the advance secondary standard stated in Schedule 1.

5 Permitted uses

5.1 The disposal method for the system onsite is subject to the approval of the Local Government./

Richard Theobald delegate of

CHIEF HEALTH OFFICER

26 February 2024

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PRODUCT CERTIFICATE OF REGISTRATION



Global Certification Pty Ltd

Number 40/22

Product Performance Testing

AS 1546.3:2017

Advanced Secondary 1500 L/day or 10EP Level

APPROVED 26 FEB 2024

Issued to

Taylex Australia Pty Ltd

56 Prairie Road Ormeau Qld 4208

Certification Date: - 19 August 2020 Expiry Date: - 19 August 2025

Product Certified:

Model	Disinfection	Average Results over the Test Period	Servicing Frequency	Discharge	Manufactured and assembled
Taylex Concrete ABS 1500 and Taylex Poly ABS 1500	Yes	TSS 7.6mg/l BOD₅ 1.5mg/l E coli 1.4 CFU/100ml	3 Monthly Service 3.2 yearly sedimentation pump out or as required	Pumped via disinfection/pump chamber with chlorine dispenser	Manufactured and Assembled at: 56 Prairie Road Ormeau Qld 4208

The system took 4 weeks to meet the advanced secondary standard.

Note: The Ecoli result was compliant for the entire period from installation.

The vertical axis tanks are certified to AS/NZS 1546.1:2008 for both the Poly and Concrete systems.

NACE CODES: 3700

This Certificate of Conformance to the Product Certificate Scheme for "Domestic Wastewater Treatment Units (Septic Tanks) and Rainwater Tanks" remains the property of Global Certification Pty. Ltd. and is granted subject to the terms and conditions of the Contract Application, in respect of the Product certified on this page and the attached schedule to the Certification of Conformance, bearing the same number as this certificate.

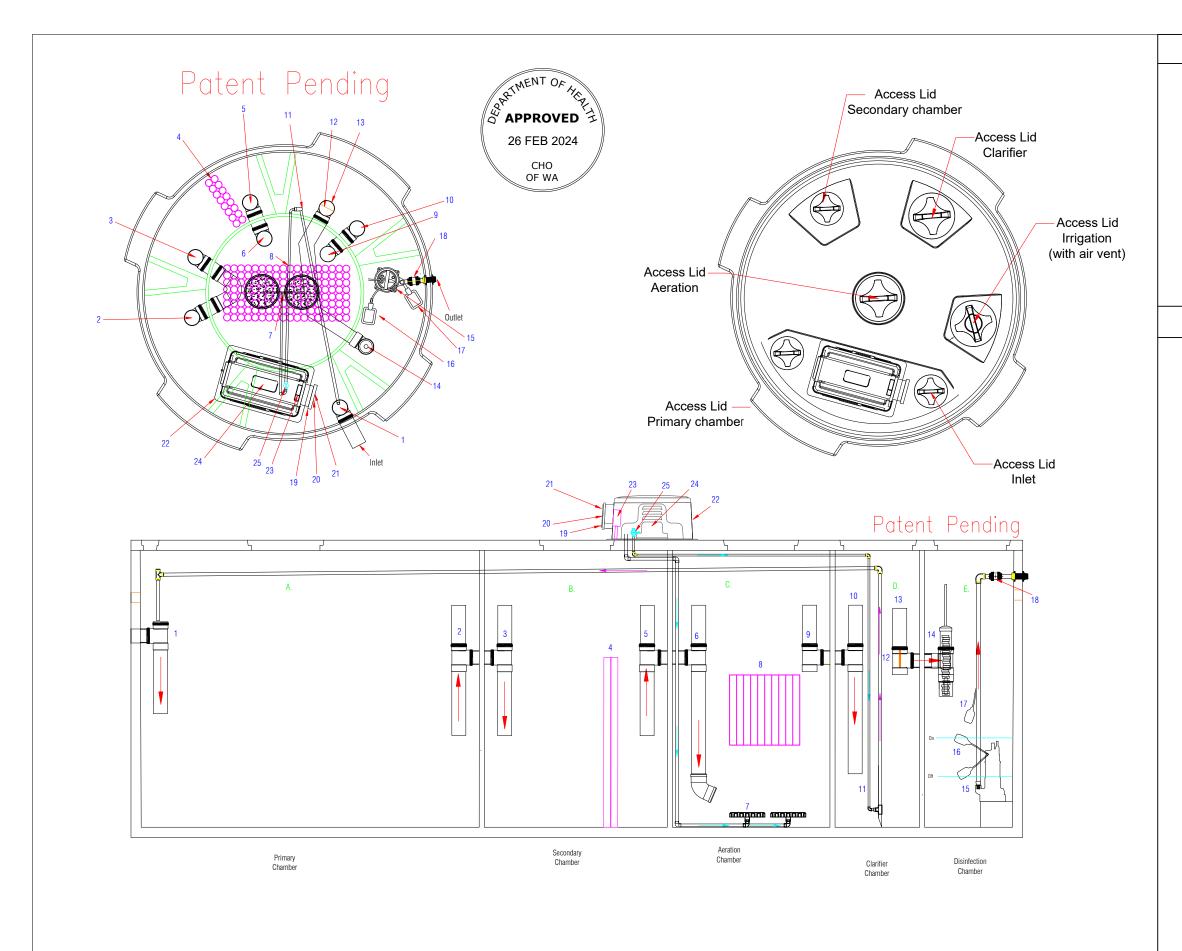
Date of Issue: 9 February 2021

Bruce Smith Director

JAS-ANZ

www.jas-anz.com.au/register

Signed for and on behalf of Global Certification Pty Ltd PO Box 953 Belconnen ACT 2616



TANK DETAILS

TAYLEX WASTEWATER PABS2000NR - Poly

Poly Tank

	CHAMBER	CAPACITY 'L'
Α	PRIMARY	1646
В	SECONDARY	881
С	AERATION	2053
D	CLARIFIER	663
E	IRRIGATI□N	665
	EMERGENCY STORAGE	1541

WORKING VOLUME 5908 Litres TOTAL VOLUME 7449 Litres

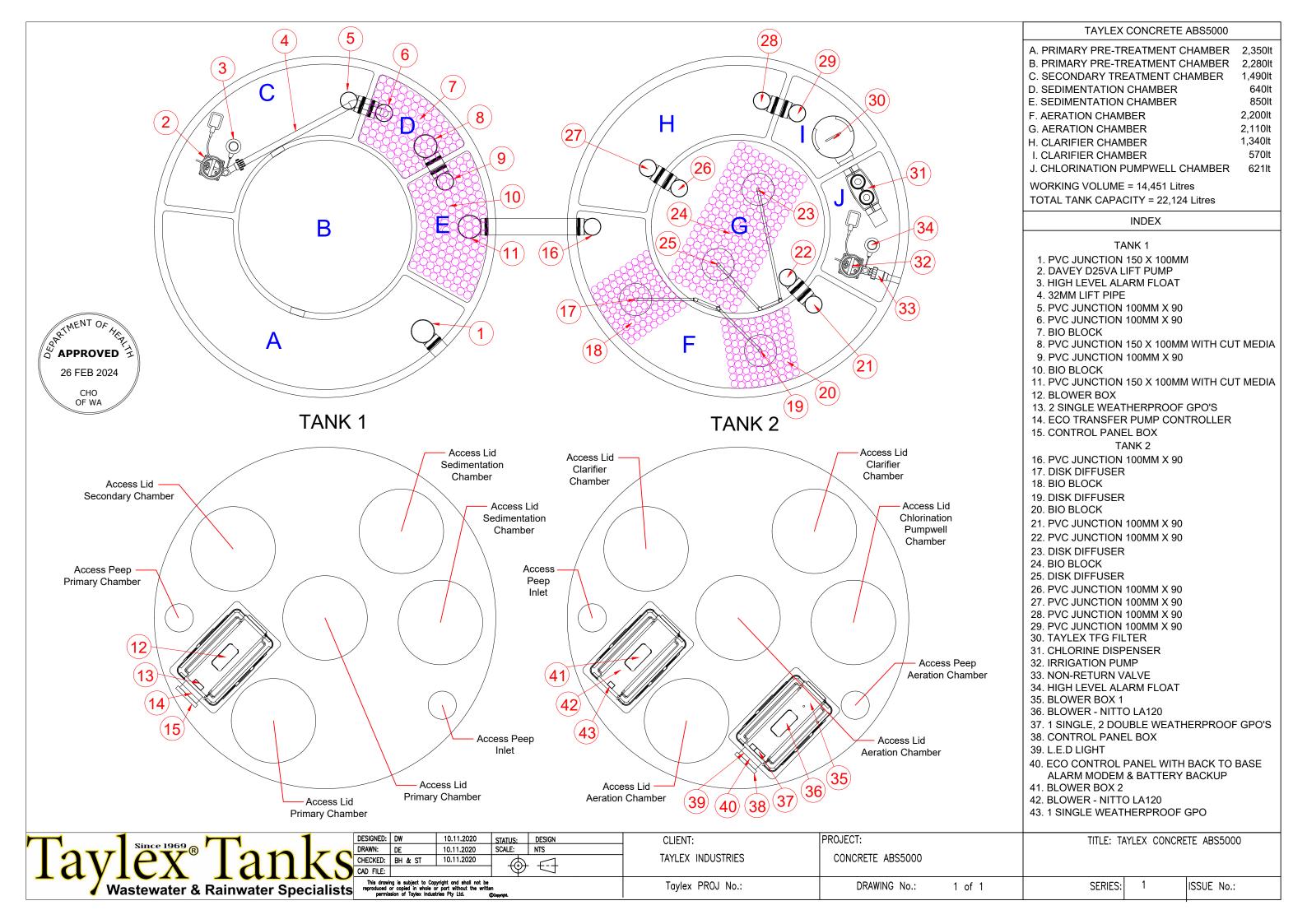
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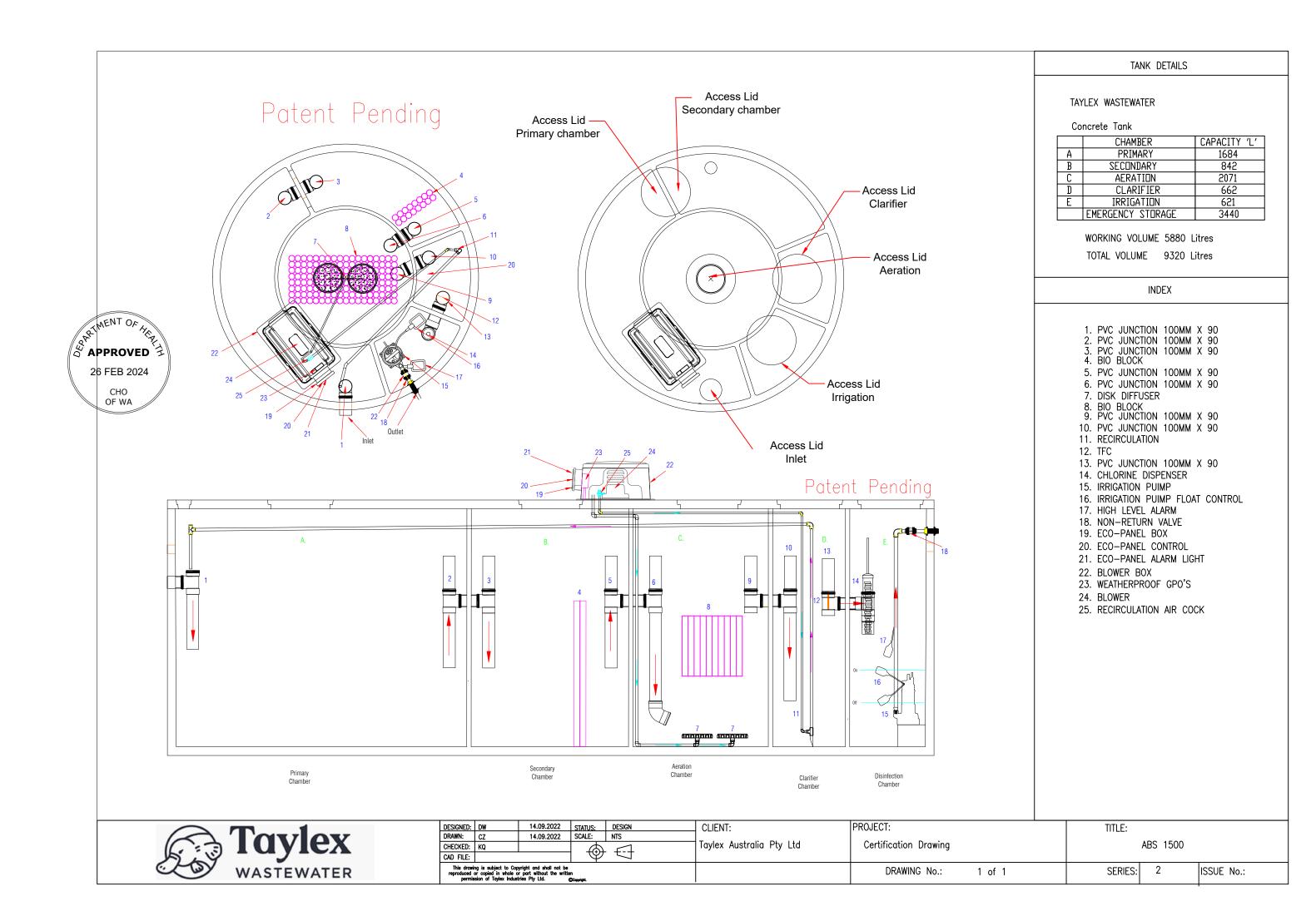
- 1. PVC JUNCTION 100MM X 90 2. PVC JUNCTION 100MM X 90
- 3. PVC JUNCTION 100MM X 90 4. BIO BLOCK
- 5. PVC JUNCTION 100MM X 90 6. PVC JUNCTION 100MM X 90
- 7. DISK DIFFUSER

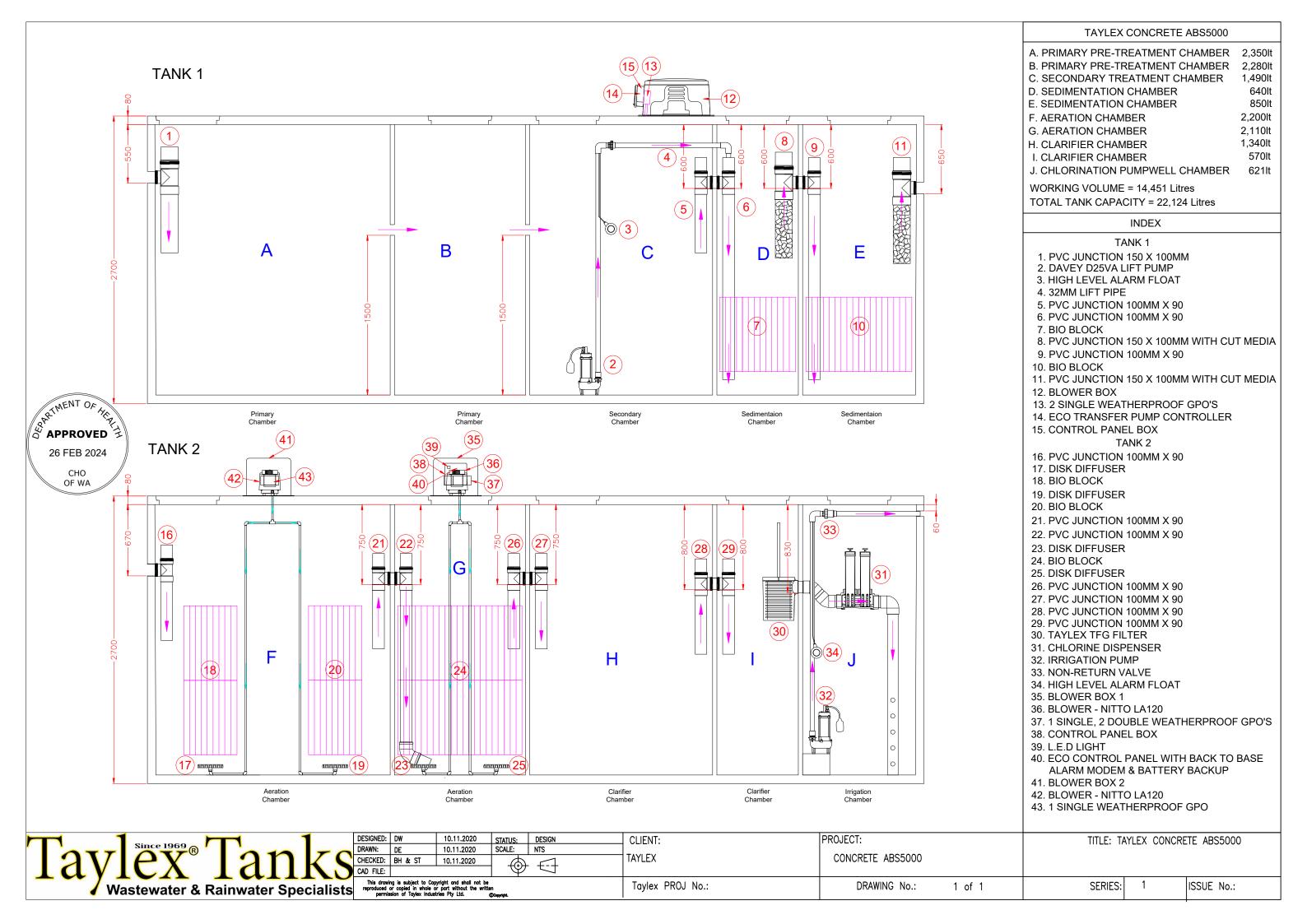
- 8. BIO BLOCK
 9. PVC JUNCTION 100MM X 90
 10. PVC JUNCTION 100MM X 90
- 11. RECIRCULATION
- 12. TFC
- 13. PVC JUNCTION 100MM X 90
- 14. CHLORINE DISPENSER
- 15. IRRIGATION PUIMP
- 16. IRRIGATION PUIMP FLOAT CONTROL
- 17. HIGH LEVEL ALARM
- 18. NON-RETURN VALVE
- 19. ECO-PANEL BOX
- 20. ECO-PANEL CONTROL
- 21. ECO-PANEL ALARM LIGHT
- 22. BLOWER BOX
- 23. WEATHERPROOF GPO'S
- 24. BLOWER
- 25. RECIRCULATION AIR COCK

A STORY	Taylex
	WASTEWATER

DESIGNED:	DE	DATE: 14.09.2022	STATUS:	DESIGN	CLIENT:	PROJECT:		TITLE:		
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reproduced (ng is subject to Cop or copied in whole o sion of Taylex Indus	pyright and shall not be or part without the writte stries Pty Ltd.	n DCopyright.			DRAWING No.:	1 of 1	SERIES:	1	ISSUE No.:











Owner's Manual

Taylex Advanced Blower System



Wastewater Recycling Systems for Australian & New Zealand homes that protect your family and our environment.

Taylex Systems produce the highest quality effluent for the safest and best environmental outcomes.



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Trust Taylex

Welcome to Taylex, an Australian family-owned company founded in 1969. We have 80 plus employees and over 90 trained wastewater specialists who market, install and service our range nationally in Australia and New Zealand. Post installation, we have a network of over 300 trained Service Technicians to provide the ongoing care and maintenance for your system.

We manufacture a range of products for Wastewater, Rainwater and Stormwater applications, we also offer Servicing for our wastewater systems. Taylex was the first company to manufacture Home Sewage Treatment Systems in Australia and we continue to be leaders in our field.

Expertise

With over 50 years of experience building our reputation, Taylex is the trusted voice for the wastewater industry. We work closely with the national manufacturers association and governing bodies to lobby for more stringent wastewater regulations to ensure the highest level of treatment is met and to provide you with the best results possible.

Integrity

We honour warranties. We stand behind our products, for their lifetime, no questions, no fine print. We are an Australian owned and made family business. We are passionate about producing quality products that work. We take care of our staff. We value the environment and human health.

Flexibility

Taylex has a system that will work for you. In difficult terrain or soil, for the size of your house and slope of your block, Taylex systems are adaptable, we are eager to work with you and become part of the solution.

Innovation

Taylex is at the cutting edge of environmentally sound wastewater treatment that is healthy and sustainable for your family and the environment. We are constantly testing and improving our systems to not only provide unparalleled quality and unmatched results, but to ensure the most stringent safety standards are constantly striping to improve and perfect.

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Functionality ²⁶ FEB ²⁰²⁴

Our Systems work! The way use Monolithic, single piece moulds meaning no deteriorating seals or weak post-joined walls, which could expose your family to catastrophic failure of your system. There's no skimping on parts from the biggest pump down to the smallest seal. Our systems are designed and engineered to last as long as your home.

What is a Wastewater Treatment System?

Taylex Wastewater Treatment Systems are safe, environmentally sound, reliable, and cost-efficient. Our advanced systems use natural processes to turn your household wastewater into clear, odourless water.

Secondary treatment systems are the most commonly used systems in Australia. They treat your household wastewater to a very high quality, allowing you to reuse your water in areas closer to your home and neighbouring properties, often above ground, with complete peace of mind.

Secondary Treatment Systems are designed to treat all the wastewater that is generated by your home. The wastewater includes the sewage (black water) that is discharged from the toilets and bidets and the sullage (grey water) that is discharged from sinks, washing machines, dishwashers, showers, and baths. Your Taylex ABS treats wastewater in an environmentally sustainable way by making use of the naturally occurring bacteria that are present in the wastewater. The system is designed to hold the polluted or degraded water in a series of compartments where various types of bacteria can flourish and in doing so, "treat" the water, naturally, without dangerous chemicals or additives.

Secondary Wastewater Treatment Systems are sometimes known by different names in different areas.

Here are some of the names you might have heard;

Home Sewage Treatment Plant (HSTP)
Secondary Treatment System (STS)
On-site Sewage Facilities (OSSF)
Aerated Wastewater Treatment Systems (AWTS)
Aerobic Treatment Units (ATU)
Aerobic Septic Systems
Wastewater Treatment Systems



How does my Taylex Wastewater Treatment System work?

All household wastewater from your bathrooms, toilets, kitchen, and laundry naturally flows into your Taylex Wastewater Treatment System using gravity.

Step One

The first stop for your household wastewater is in the 'Primary Chamber'. Here solids will naturally sink to the bottom and fats and oils will naturally float to the top, leaving a clearer "Supernatant Zone" in the middle. This zone will transfer to the next stage of treatment.

Step Two

Next is the 'Secondary Chamber'. Further settling happens here. Again, water from the middle flows onto the next stage, there is an additional "Bio-Mass" block in this chamber to assist with the separation of solids. In a traditional Septic System, this is where the journey would end and effluent would now be pumped onto your property and into our environment, relying on sand or soil to do the rest. With a Taylex Wastewater Treatment System, there are still four more steps to produce clean, clear, safe water for your yard.

Step Three

The 'Aeration Chamber' is next up. This is where the magic happens. Your quiet, reliable, energy-efficient Nitto Blower sends oxygen into the chamber in the form of tiny bubbles. These bubbles pass through a specially designed structure called "Bio-Mass". Bio Mass is purpose designed to trap the air bubbles to feed naturally occurring 'Aerobic bacteria'. These microscopic Eco-Warriors are now hard at work, chomping through most of the remaining organic matter, polishing the water, and eliminating odour.





Step Four

Step four is in the 'Clarification Chamber'. More settling occurs here. Once settled to the bottom, this potent mix of Aerobic bacteria and fine particle solids are recirculated to the Primary Chamber to keep it healthy and working hard (not smelly).

Step Five

The final step in the treatment process is the 'Disinfection Chamber'. The water gets a 'kiss' goodbye from our Chlorinator which removes any harmful bacteria, viruses and pathogens. Using less chlorine per litre than your average swimming pool, the system removes any harmful bacteria, viruses and pathogens.

Step Six

Lastly, when the Disinfection Chamber fills up, your dependable irrigation pump automatically switches on to send your water out to do its job in your yard. Crystal clear water irrigates your designated area and returns safely to nature, contributing to a healthy water cycle.



What keeps my system healthy?

Food

Your household wastewater is rich with organic matter that nourishes the good bacteria in your Taylex ABS. 'Food' comes from toilets, hand basins, sink, showers, washing machines, in fact anything natural that we put down the sink or flush down the toilet.

Air

The Taylex system is fitted with a Nitto air blower that takes fresh air and introduces it to the water through an aerator diffuser. The oxygen in the air dissolves into the water as it bubbles up to the top. This gives the water a higher than normal dissolved oxygen content allowing the good bacteria to breathe, live and treat your wastewater.

Regular Servicing

For the Taylex system to work to the best of it's ability, it needs to be serviced every 3 months. Not only is this regulation, it guarantees your system is getting the adequate care it needs.



What upsets the balance in my system?

The greatest cause of problems for Wastewater Treatment Systems are harmful cleaning products and the washing machine. When using household cleaning products, please remember to:



Adhere to the cleaning product manufacturer's recommended measured dosage. Do not free pour.



Use cleaning products that are bio-degradable, low phosphorus and labelled 'Safe for onsite treatment systems'.

Antibiotics

Never pour antibiotics down the sink or flush down the sink or flush down the system.

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Cleaning Products

The good bacteria in your treatment system may class certain cleaning products as poisons if high levels are used. Please always use environmentally friendly products. Your treatment system relies on bacteria for it to work effectively, therefore any product labelled as anti-bacterial can be harmful to your system if used frequently or in large doses. Any bleaches or harsh chemicals should only be used once a week and in small doses, if required. The use of harsh chemicals in high levels can affect the function of your system.

Washing Machines

Try to evenly spread your washing over the course of the week. Avoid, where possible, washing everything in one day. It puts a large amount of water into your treatment system all at once, and puts uneccesary strain on your system. Liquid soaps breakdown more easily than powder. Only use the amounts as outlined on the label.

Suitable Products

Dishwashing Liquids

As a rule of thumb, it is always recommended to go for dist washing quids labeled as 'Environmentally Friendly' or 'Green'. In general, products that are non-toxic, non-chlorine based, and biodegradable are considered safe.

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Surface Cleaners

Similar to the above, it's suggested to look for environmentally friendly products. It is also important to look out for products which are non-antibacterial or harsh chemically.

Toilet Cleaners

The majority of cream cleaners are usually deemed suitable. Similarly, you want to look for products that are biodegradable, natural, and environmentally friendly. Toilet fresheners are not recommended.

Floor Cleaners

It is recommended to use hot soapy water to clean floors. Using floor cleaners is generally acceptable at controlled levels. It's advised to stay away from heavy chemical cleaners.

Laundry Powders, Liquids and Bath Salts

Select low phosphorus, sodium and sulphur products. Washing soda can occasionally be added (less than half a cup) to help reduce foaming if necessary. When using Epsom salts in your bath, use small amounts, less than 2 cups of Epsom salt per bath, no more than once per week.

Pet / Animal Washing In Basins

Pets are treated with products to maintain their health (especially fleas). If washed in a laundry, bath, or shower, the treatment used could flow through to the system and cause operational problems.



Personal Hygiene

When considering products to use for soaps and body wash we strongly advise looking for the following; organic ingredients, PH balanced, low-phosphorous or phosphorous-free, non-toxic, biodegradable products, low in sodium and sulphur.

A Note On 'Greywater and Septic Safe' / 'Biodegradable'

Whilst most of the time products labeled as 'greywater safe', 'septic safe', or 'biodegradable' are safe for use in your treatment system. Many plant-based cleaners are powerful antibacterials. Some products marketed as 'Green' or 'biodegradable' can be more damaging to our environment than more traditional cleaning products. When selecting cleaning products, if in doubt, always look for products that are phosphate-free or low phosphate.

Too Much Of Anything Is A Bad Thing

When using cleaning products in your home, always remember that too much of anything can harm the good bacteria in your system. Moderation is key.

Please Note

If your technician notices there is a problem, they may recommend that you limit the use of specific products (even if it is listed here as suitable).

Taylex promotes the use of low phosphorus, phosphorus free, low sodium & low sulphur products. This practice will reduce the phosphorus levels released to the environment and prolong the life of your phosphorus removal filter (if fitted).

Products to Avoid

Strong Antibacterials

Cleaning products which contain any of the following should only be used in small doses in your Taylex System; bleaches, disinfectants, whiteners, chlorine, anti-bacterials (Natural anti-bacterials such as Eucalyptus and Teatree oils included).

Caustic Oven or Drain Cleaners

Drain cleaners can do more harm then good for your system. If you want to safely clean your drains, we recommend the traditional method of vinegar and baking soda as a safe and effective alternative.

Sanitary Products

Products such as Nappy liners, sanitary pads, condoms, ANY wipes 1902 biodegradable sanitary products should never be flushed, as they will not break down in your system.

Kitchen Related Products

Avoid putting things such as dairy products, cooking oils, excess for WA scraps and anything from your home brew kit down the sink, drains or toilet. Garbage disposals are not permitted to be used with any wastewater treatment system.

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Excess Water

Using too much water in one go can be bad for your system. It can cause the system to block or not flow as efficiently as it should. As a result, your system can shut down or smell. To avoid this, spread out activities which require high water usage, such as doing the laundry or dishes and taking baths/showers.

Other Things To Avoid

Never put, automotive oils, hair dyes, antibiotics, bandages, dead fish / small animals and hair down the sink, drain or toilet. Doing so can cause extensive damge to your system.

Servicing your Wastewater Treatment System

Taylex treatment systems are required to be serviced quarterly and may only be serviced by licensed wastewater service personnel. Not only is it a council requirement, Taylex servicing will also:

- Ensure that all council reporting requirements are met.
- ✓ Send your service reports to your local council on your behalf (where required).
- Send your reports and invoices to you electronically (when possible).
- Provide spare parts to current contract holders at a discounted rate.

- ✓ Offer an extended warranty of 3 years for electrical and mechanical parts if you hold a current service contract and the parts were installed by us. Standard warranty is 12 months.
- ✓ In the unlikely event of a breakdown or emergency, we prioritise call outs for our current customers and charge at a discounted rate. NENT OF

HOW CAN YOU ASSIST IN SERVICING YOUR TAYLEX WAS

✓ Do not cover the top of the tank with decking, earth, gravef, mulch, concrete, pavers, pot plants, barbecue, swing set, seats, etc.

- Provide clear, safe access to the system and the inspection openings. Ensure that plants, trees, and grass around the system are trimmed and cut.
- ✓ If you have a locked yard, provide your service person with a key (if you are not going to be present during the service).
- ✓ Make sure surface water does not pool and can never enter the tank, even during torrential rain events.

Operating Instructions - ABS Eco Controller

Introduction

The Taylex ABS Eco Controller has a number of features that are explained in this section.

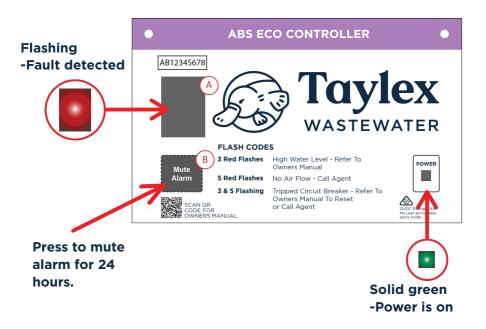
The Eco Control Panel monitors and controls the Treatment System's air blower, pump and registers an alarm when it detects a fault in the system.

The Taylex ECO Controller Assembly (complete with Controller, Control Panel Box, 3 x GPO Assembly and Blower Box) is classed as electrical equipment and has been certified to comply with AS/NZS3820 and AS/NZS 3100:2017, meeting the Electrical Safety requirements in Australia and New Zealand. Your Taylex ABS is designed to operate automatically and its operation will usually be event free. The Eco Control Panel provides visual and audible indictors of both normal operating conditions and fault conditions.

Normal Operation at Start-up

When the power is switched on to your Taylex ABS Eco Control Panel, the display (A) will flash twice. The audible alarm will sound in unison with the 2 flashes, this is a TEST MODE. At the completion of the Test Mode, the display will show a single green light in the 'Power' indicator to indicate that the system has tested correctly and is in normal operation.







The Power Supply

The power outlets for the ECO Controller for your system are located inside the Blower Box. Each switch must be in the ON position at all times. If any or all switches are OFF, the treatment process and alarms may not function. The single GPO is for the 240V – 12V power supply for your controller and the double GPO is for your Pump and Blower. The double GPO contains a 7amp breaker underneath the GPO, which will activate in the case of a fault with the pump and/or blower. If the breaker is activated it will trigger the associated alarm on the Controller. You can reset the Breaker by pushing in the reset button (see page 16 for full instructions). If the breaker is activated again, please contact your Service Agent to rectify the issue.



Optional Extra

A 12volt In House Alarm Pangle EB 2024 available as an optional extra to the system. If required, the panel carried fitted during the installation of the system. The In House Alarm Panel is connected to the same circuit as the Alarm, situated on the system, and works in tandem with the same functions listed above. To mute the In House Alarm, press the red button, this will silence the alarm. The alarm at the system will still function, and needs to be muted separately. The LED light on the In House Alarm panel will continue to flash until the fault is rectified.



Who to Contact for Help and Troubleshooting

Before you call for help, and to avoid unnecessary call-out fees, check these items:

- **1.** Is the power turned ON at the system?
- **2.** Are there lights ON in the panel face?
- 3. Has a Safety Switch tripped in your main switchboard or sub board?
- 4. Has the irrigation hose become kinked, preventing the pumping out?
- pumping out?

 If you have removable "Turf Keys" on your sprinklers and proved sure they are engaged properly, PUSH DOWN HARD (Surface irrigation only).
- **6.** Is the irrigation outlet filter blocked? (If fitted)

Resetting your system

If you have identified an issue, once it is fixed you can try **resetting your** system:

- 1. Turn the system OFF, remove the 4 screws on the (Blue or Green) blower box cover and turn the single power point ONLY OFF. This will reset the program.
- **2.** Turn the system ON again using the single power point switch.
- **3.** If the system starts and operates correctly, observe the system over the next few days for another ALARM event and discuss it with your Service Agent.
- 4. If the system goes back into ALARM mode, call your Service Agent. Limit your water usage until the fault is rectified.

Contact your local wastewater specialist.

taylex.com.au 1300 TAYLEX CHO OF WA

Alarm Codes (Trouble Shooting)

Alarm Meaning		Action
1 Flash	Normal Operation	None required
3 Flashes	The water level is high Please see below	
5 Flashes	There is no airflow	Call your Service Agent
3 & 5 Flashes	Tripped Circuit Breaker	Reset Breaker or call your Service Agent

3 Flashes - High Water Alarm

A high water level may be self-correcting. It can be caused by multiple sources of water coming in, overloading the system. If you think this may have occurred, then wait for 15 minutes until the surge flow has stopped and see if the alarm stops. If sprinklers are still operating (if applicable), recheck the alarm when they stop to see if the alarm has stopped. If it does not then check the following:

- 1. Is there a filter on the irrigation line before the effluent disposal area? Is it blocked?
- **2.** Is the irrigation line kinked or broken?
- **3.** Has the irrigation pump failed?
- **4.** Surface irrigation Are all the turf valves connected?

If you can rectify any of these problems yourself, then you will save the callout cost of your Service Provider. However, they are experts in this field and will assist you whenever you need their help. Call them whenever you need their assistance or you are in doubt about what you need to do. They will happily assist you over the phone.

5 Flashes - No Air Flow

When your alarm has 5 flashes it means no air flow. This is usual 26 TEB 2024 indication that the blower is not working properly. this can be caused by a range of things, for example, if your system short circuits.

If this alarm is activated for your system, we suggest you call your local wastewater specialist.

3 & 5 Flashes - Tripped Circuit Breaker

When your alarm has 3 and 5 flashes, this means you have a tripped circuit breaker. This can be caused by issues with the aerator or other electrical components. If this happens refer to the diagram below and reset the breaker.

Resetting the Breaker

- 1. Remove the 4 screws on the blower box.
- 2. Underneath the double power point locate the button as shown below.
- 3. Turn off both switches (1 = Pump & 2 = Blower)
- Push in the reset button and wait 10 seconds. 4.
- 5. Switch on switch 1 and wait 10 seconds.
- Switch on switch 2 and wait 10 seconds. 6.
- If the circuit breaker "Trips" when either one of the switches are 7. turned on, this would indicate there is a problem with the pump or blower. Leave the faulty switch in the off position MENT OF Y and notify your service agent immediatley.
- If the system doesn't alarm, monitor for the next & days 8.
- If the system continues to alarm, call your local was proved 9.

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Warranty

Every Taylex ABS Wastewater Treatment System is covered by a full manufacturer's warranty. There is a 15 year warranty* on the pre-cast concrete or rotary moulded plastic tanks. There is also a 3 year* warranty on all electrical and mechanical components, including the irrigation pump (a 12 month standard warranty and a further 24 months extended warranty is available when you purchase your 2nd and 3rd year of service calls with a Taylex Approved Service Agent). Warranties apply from the date of commissioning or 90 days from the date of purchase (whichever is sooner).

This guarantee does not cover damage caused by misuse, neglect, failure to keep the unit clean and functional, accident, use of incorrect power supply, or repair and / or attempts to repair by unauthorised personnel. The benefits conferred by this warranty are in addition to all other rights and remedies in respect of the product which the consumer has under the Trade Practices Act and other legislations.

TO ENSURE YOUR WARRANTY IS VALID, THE FOLLOWING SHOULD BE OBSERVED:

DO NOT use system or allow wastewater to enter tanks before power services are available to the System and a Taylex Authorised Specialist has been notified of pending occupancy of the property and has subsequently commissioned (activated) the system.

DO NOT cover lids with soil

DO NOT position decking, concrete paths or driveways over System **DO NOT** allow surface water to enter the System by incorrect falls and land-scaping around the system.

NEVER turn the power off unless instructed to do so by your Service Agent

* Terms and Conditions apply





RCM Compliance Certificate

Certificate No.: 20/RCM/13 Date of Issue: 31 July 2020

Certificate Holder: Taylex Industries Pty Ltd

Address: 56 Prairie Road, Ormeau, QLD 4208

Equipment: Controller for waste water treatment tank

Brands: "Taylex"

Model No's: ABS Controller; and ABS ECO Controller

QEC Global certifies that the above article meets the requirements for use of the RCM as follows:

Electrical Safety Standards: AS/NZS3820:2020 & AS/NZS 3100:2017 +A1 & A2

Evidenced by: CPC Test Report No. 90644-19-70-20-PP001 (for ABS Controller) to AS/NZS 3100:2017 +A1 & A2 (demonstrating compliance with essential

and the manufacture and a state of A O/N/Z02000\

safety requirements of AS/NZS3820)

'ABS ECO Controller' same as 'ABS Controller' except ELV supplied electronic circuitry via safety isolating PSU covered under approval

certificate SAA132096EA

EMC Standard: AS/NZS61000.6.3:2012

Evidenced by: EMC Services Pty Ltd Test Report No. 80606 (for ABS Controller)

EMC Services Pty Ltd Test Report No. 191204 (for ABS ECO Controller)

EESS National Equipment Database Supplier Registration Number: E4296

RCM required to be marked on all stock sold:

On behalf of QEC Global

P// +61 7 5429 6999 A// PO Box 552, Maleny QLD 4552

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www.taylex.com.au 1300 TAYLEX

Owner's Manual for the Advanced Blower System

Taylex Australia Pty Ltd.







Specification

CONCRETE ADVANCED BLOWER SYSTEM1500L per day

ABS-1500





ABS-1500

Specification

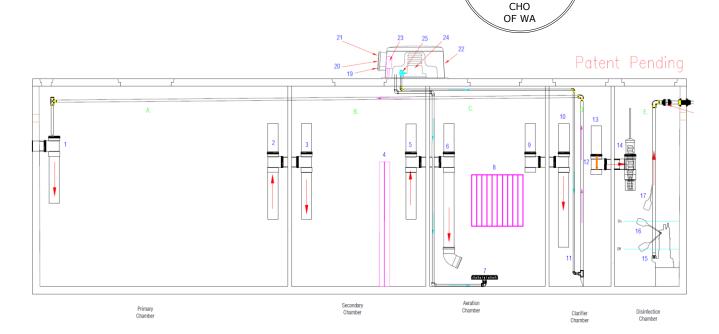
General Description:

The Taylex Concrete Advanced Blower System 1500 (ABS-1500) Secondary Treatment System (STS) is designed to treat the wastewater from a residential dwelling up to 1,500 Litres per day, with a daily flow of 150 Litres per person and an average daily BOD⁵ 70g per person.

The Taylex ABS-1500 STS is contained in one vertical axis type cylindrical precast concrete collection well with a design capacity of 9,320 Litres and an operating capacity of 5,880 Litres.

Flow path of wastewater:

- 1. A primary pre-treatment chamber, with a capacity of 1,684 Litres.
- 2. A secondary pre-treatment chamber, with a capacity of 842 Litres.
- 3. An aeration chamber, with a capacity of 2,071 Litres. This chamber is fitted with bio block media, 12" disk diffuser.
- 4. A sedimentation / clarifier chamber, with a capacity of 662 Litres, containing a Taylex Filter Control (TFC) fitted to the outlet, and recirculation to the primary.
- 5. A Disinfection chamber, with a capacity of 621 Litres, incorporating a capacity of 300 Litres for chlorine contact of effluent. A chlorine disinfection unit is installed on the inlet to the irrigation chamber. The system is fitted with either a Davey D25 or D42 Irrigation Pump.
- 6. An Emergency Storage Buffer 3440 Litres.
 7. The automatic irrigation pump transfers the treated effluent to the effluent disposal area (LAA).
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Product Specification Table:

Australian Standards Compliance					
Effluent Testing AS1546.3:2017					
Tank Design and Testing	In Ground	AS1546.1:2008			
	Above Ground	AS3735.2001			
System Model	ABS-1500 CONCRETE				
Treatment Level	Advanced Secondary Quality				

Tank Capacity				
Total Tank Capacity	9320L			
Operating Capacity	5880L			

System Chamber Capacities				
Primary Chamber	1684L			
Secondary Chamber	842L			
Aeration Chamber	2071L			
Clarifier Chamber	662L	CNTO		
Irrigation Chamber	621L	2TMENT OF THE		
Emergency Storage	1541L	APPROVED		
Maximum Hydraulic Loading Capacity	1,500 litres per day / 10EP	26 FEB 2024		

	Design Parameters	CHO OF WA
Parameter	Total Per Day	Total Per person per day
Daily flow	1,500L / 10EP	150L
Maximum Organic Loading BOD⁵	700g	70g
Total Suspended Solids (TSS)	700g	70g
Total Nitrogen (TN)	150g	15g
Total Phosphorus (TP)	22.5g	2.5g

Effluent Compliance: AS1546.3:2017		
Biochemical Oxygen Demand (BOD ⁵)	≤10mg/l	
Total Suspended Solids (TSS)	≤10mg/l	
E. Coli	≤10cfu/100ml	

Temperature		
	Minimum	Maximum
Operating Temperature C°	-2°C	45°C

Electricity Consumption		
Kilowatt hours per day (kWh/d)	2.21	
Kilowatt hours per 1000L		
(kWh/1000L)	1.62	

Servicing and Maintenance		
Servicing Frequency	Every 3 months	



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Components List & Repair/ Replacement Instructions:

- 1. Primary Chamber
- 2. Secondary Chamber
- 3. Aeration Chamber
- 4. Clarifier Chamber
- 5. Irrigation Chamber
- 100mm inlet Junction, BIO Block
- 100mm Junction x 2
- 100mm Junction x 2, BIO Block, Air Lift, Disk Diffuser
- 100mm Junction, Taylex Filter Control, Recirculation Chamber
- 100mm Junction, Chlorine Dispenser, Irrigation Pump, High Level Alarm Float, 100mm Elbow

Component List

TANK

Concrete Tank and Lid Made from 32mpa concrete with SL 41 Mesh

Repair / Replacement Details:

Replacement lids available from Taylex Industries or your local Service Agents.

Chips and cracks can be repaired using Sika panel patch or mortar.

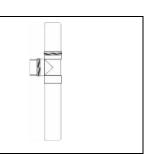


- 1) 100mm Sweep Tee With dropper pipe and riser.
- 2) Repair / Replacement Details:

coupling install new tee.

Replacement tee and pipe can be purchased from a local plumbing store. Cut 100mm pipe at wall and using a 100mm slab repair

5)

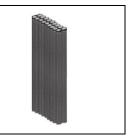


4) BIO Block Media

Width - 385mm Length - 110mm

Height - 1400mm

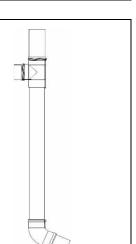
Surface Area - 20.6m²



6) 100mm Sweep Tee With 1000mm dropper pipe and 100mm 45° M&F Bend

Repair / Replacement Details:

Replacement tee and pipe can be purchased from a local plumbing store. Cut 100mm pipe at wall and using a 100mm slab repair coupling install new tee.





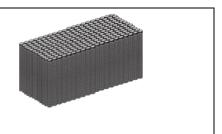
7) Diffuser x 2 Material - EPDM Diameter - 250mm (9inch)

Repair / Replacement Details:

Turn the system off. Replace the diffuser by making a new complete aeration pipe assembly fitted with the Diffuser. Cut the main aeration supply line, place the new diffuser in the system, weighed down with a small concrete block and rotate the diffuser under the biomass. Re fix the new aeration pipe assembly complete with a joining socket. Removing the old Diffuser is not required. Turn the system on. Purchase the complete assembly from Taylex.



8) BIO Block Media Width - 550mm Length - 1100mm Height - 500mm Surface Area - 105m²



9) 100mm Sweep Tee With dropper pipe and riser.

Repair / Replacement Details:

Replacement tee and pipe can be purchased from a local plumbing store. Cut 100mm pipe at wall and using a 100mm slab repair

13) coupling install new tee.



11) Recirculation System

For the transfer of fluids using the 'Venturi Principle'. Air is injected toward the base of a vertical open ended PVC conduit. Continuous displacement occurs as the air moves vertically to the liquid, drawing liquid through the bottom of the conduit. The air/liquid mixture reaches a vertical maximum where it then moves through the 90° bend into the primary chamber. The conduit is arranged in the base of the clarifier so that the residual sludge constitutes the main vacuum target.

Sludge Base Removal

Sludge deposit removal is to be scheduled 1 time per 6 years or as determined necessary by a licenced Taylex Sales Technician or the client or due to mechanical failure.

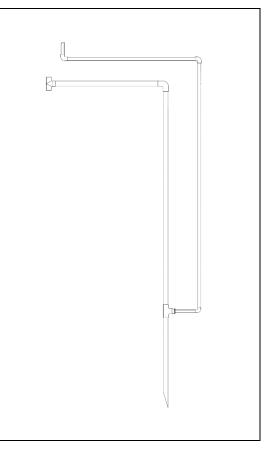
Servicing

Routine maintenance/servicing of the Taylex ABSNR -2000 is to be scheduled quarterly or as determined necessary by an approved Taylex Sales Technician or due to mechanical failure.

Refer to Field Service Report sheet for testing requirements.

Repair / Replacement Details:

Turn the system off. Replace the Sludge Recirculation Assembly by cutting the main line and installing the new assembly with a joining socket. Turn the system on Purchase the complete assembly from Taylex.

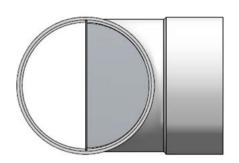




12) Taylex Filter Control (TFC) Material - HD Polyethylene

Repair / Replacement Details:

Replace the TFC assembly by cutting the 100mm slab repair coupling, install the replacement TFC assembly.



14) Chlorine Dispenser
Material – HD Polyethylene
Length – 500mm

Diameter - 90mm

The chlorine dispenser is placed in the 100mm Tee located in the irrigation chamber. $\,$

Repair / Replacement Details:

Repairing the Chlorine Dispenser is not recommended. If the Dispenser is damaged, replace it with a new unit. Purchase the complete assembly from Taylex.



15) Irrigation Pump

The irrigation pump is self-controlled via a ball bearing activated float switch. When the according volume is reached in the pump chamber, the ball bearing in the float moves and creates an active connection. The treated effluent is pumped to the approved dispersal zone, as the chamber reaches minimum volume, the float drops and deactivates the pump. The type and capacity of the pump will be in accordance with the land application requirements.

Repair / Replacement Details:

Turn the system off. Replace the pump by disconnecting the barrel union, be sure not to drop the internal valve assembly. Lift the Pump Assembly out of the tank. Undo the threaded fitting connect to the outlet of the pump. Re apply thread tape and fix the threaded fitting back onto the pump. Return the assembly to the tank and reconnect the barrel union, ensuring the valve is seated correctly. Turn the system on. Purchase the correct pump from Taylex or a local outlet, ensuring the performance is identical to the pump removed.

DAVEY D25 - 9m Head Voltage - 220 ~240 IP 68 AMPS - 1.9 Phase 1 50hZ Max Flow - 200L/min 7m

<u>DAVEY D42A/B3 - 32m Head</u> Voltage - 220 ~240 IP 68 AMPS - 4.3 Phase 1 50hZ Max Flow - 130L/min 7m





17) Alarm System High Water

Material - PVC

Length - 20mm

Width - 90mm

Trigger - High Water

Code - 3

Visual - Red L.E.D - 3 Flashes

Audible - Micro Buzzer

Voltage - 12V

Repair / Replacement Details:

Turn the system off. Replace the float by disconnecting the electrical connection in the terminal block, located in the lower section of the control box. Feed the new float cable into the control box and connect to the terminal block, fixing the screws firmly. Re fix the float to the pipe assembly and loop the lead around the barrel union, to set the float height. Turn the system on. Purchase the float from Taylex.





18) Non-Return Valve

Height - 85mm

Length - 140mm

Width - 85mm

Repair / Replacement Details:

Turn the system off. Replace the Non- Return Valve by cutting the pipe in either side of the valve. Re-join the pipe using sockets and glue the Valve and sockets together. Ensure the glue is set before turning the system back on.



19) Control Panel Box

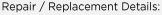
Material - HD Polyethylene

Height - 210mm

Length - 190mm

Width - 85mm

The weather proof control box is fixed to the side of the blower box using stainless steel screws. The control panel is fitted to the inside of this box and is connected to the power, high water alarm and pressure switch, via a gland at the back of the box.



Repairing boxes is not recommended. Replacements boxes be purchased from Taylex or your local service agent.





20) ECO Control Panel

(240v to 12V Power Supply)

Length - 160mm

Height - 100mm

The Taylex ECO is a 12V controller powered by the 240v to 12v power supply plug. As the unit is 12V all works including replacements and repairs do not need to be completed by a Licenced Electrician. All service agents can therefore complete all works within the Control Box and on the Taylex ECO Controllers.

The Taylex ECO Controller Assembly (complete with Controller, Control Panel Box, 3 x GPO Assembly and Blower Box) is classed as electrical equipment and has been certified to comply with AS/NZS 3820, meeting the Electrical Safety requirements in Australia and New Zealand

Repair / Replacement Details:

Turn the system off. Replace the Control Panel by removing the 4 screws in the control box. Disconnect the Loom plug from the rear of the panel. Connect the loom to the new panel; return the new Control Panel to the control box and re fix the 4 screws. Turn the system on. Purchase the Control Panel from Taylex.





21) L.E.D Light Height - 30mm

Length - 20mm

The LED visual alarm is constructed within the Eco Panel. This LED Red light will flash when an alarm is present. The number of flashes represent the particular code.

Repair / Replacement Details:

Replacement of the LED lights only is not possible; the complete Control Panel must be replaced. Purchase the Control Panel from Taylex.

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22) Blower Box

Material - HD Polyethylene

Height - 350mm Length - 600mm

Width - 400mm

The Blower boxed is fitted to the lid of the ABS using $\frac{1}{2}$ x 30nGHO anchors.

Repair / Replacement Details:

Repairing boxes is not recommended. Replacement boxes can be purchased from Taylex or your local service agent.



23) Weatherproof GPO's

Single Double

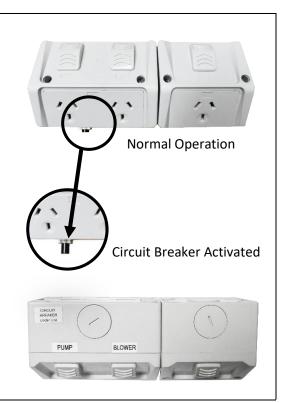
 $\begin{array}{lll} \mbox{Height} - 85\mbox{mm} & \mbox{Height} - 85\mbox{mm} \\ \mbox{Length} - 85\mbox{mm} & \mbox{Length} - 115\mbox{mm} \\ \mbox{Width} - 80\mbox{mm} & \mbox{Width} - 80\mbox{mm} \end{array}$

Mains 10amp power is connected through the 25mm coupling provided on the side of the ABSNR -2000 and pulled up through a conduit into the Single GPO. The 12volt power pack plugs into the single GPO to power the control panel. The blower and irrigation pump are plugged into the double GPO.

The double GPO contains a 5amp circuit breaker, which will activate if either the pump or blower (or both) draw too many amps, indicating a fault with the pump or blower. The breaker can be reset by pushing in the button if activated. The systems normal operation including alarms will continue to function, if the breaker is activated.

Repair / Replacement Details:

Replacing the GPO's can only be completed by a licenced electrician, please refer to the Taylex Electrical Connection instructions for details. Replacements can be purchased from Taylex or your local service agent.





Nitto 80L Blower 24)

Material - Alloy / Plastic

Height - 188mm Width - 214mm Length - 305mm Weight - 5.3kg

Noise Rating: 40dB(A)

Capacity - 80L

Back Pressure Range - 5kpa - 20kpa

Motor Power - 86 Watts

Power Source - 240V 50hZ

Repair / Replacement Details:

Purchase replacement Blowers and parts from Taylex.



25) Recirculation Control Valve

The Recirculation system has been designed to recirculate a precise volume of bacteria and sludge back to the primary chamber for denitrification and sludge management. The control valve should be set to '10' on the dial for optimum operation.

Repair / Replacement Details:

Turn the system off. Replace the Recirculation assembly by cutting the main line and installing the new assembly with a joining socket. Turn the system on. Purchase the complete assembly from Taylex.









Specification

POLY ADVANCED BLOWER SYSTEM 1500L per day

PABS-1500



PABS-1500

Specification

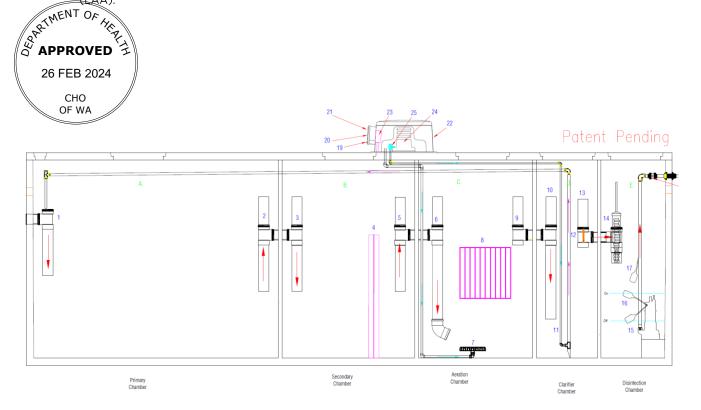
General Description:

The Taylex Poly Advanced Blower System 1500 (PABS-1500) Secondary Treatment System (STS) is designed to treat the wastewater from a residential dwelling up to 1,500 Litres per day, with a daily flow of 150 Litres per person and an average daily BOD⁵ 70g per person.

The Taylex PABS-1500 STS is contained in one vertical axis type cylindrical moulded polyethylene collection well with a design capacity of 7,449 Litres and an operating capacity of 5,908 Litres.

Flow path of wastewater:

- 1. A primary pre-treatment chamber, with a capacity of 1,646 Litres.
- 2. A secondary pre-treatment chamber, with a capacity of 881 Litres.
- 3. An aeration chamber, with a capacity of 2,053 Litres. This chamber is fitted with bio block media, 12" disk diffuser.
- 4. A sedimentation / clarifier chamber, with a capacity of 663 Litres, containing a Taylex Filter Control (TFC) fitted to the outlet, and recirculation to the primary.
- 5. A Disinfection chamber, with a capacity of 665 Litres, incorporating a capacity of 300 Litres for chlorine contact of effluent. A chlorine disinfection unit is installed on the inlet to the irrigation chamber. The system is fitted with either a Davey D25 or D42 Irrigation Pump.
- 6. An Emergency Storage Buffer 1541 Litres.
- 7. The automatic irrigation pump transfers the treated effluent to the effluent disposal area / land application area





Product Specification Table:

Australian Standards Compliance			
Effluent Testing	AS1546.3:2017		
Tank Design and Testing	In Ground	AS1546.1:2008	
	Above Ground	AS4766.2006	
System Model	PABSNR-1500	Poly	
Treatment Level	Advanced Secondary Quality		

Tank Capacity		
Total Tank Capacity 7449L		
Operating Capacity	5908L	

System Chamber Capacities			
Primary Chamber	1646L		
Secondary Chamber	881L		
Aeration Chamber	2053L		
Clarifier Chamber	663L		
Irrigation Chamber	665L		
Emergency Storage	1541L		
Maximum Hydraulic Loading Capacity	1,500 litres per day / 10EP		

Design Parameters			
Parameter	Total Per Day	Total Per person per day	
Daily flow	1,500L / 10EP	150L	
Maximum Organic Loading BOD ⁵	700g	70g	
Total Suspended Solids (TSS)	700g	70g	
Total Nitrogen (TN)	150g	15g	
Total Phosphorus (TP)	25g	2.5g	

Effluent Compliance: AS1546.3:2017		
Biochemical Oxygen Demand (BOD⁵) ≤10mg/l		
Total Suspended Solids (TSS)	≤10mg/l	
E. Coli	≤10cfu/100ml	

Temperature		
Minimum Maximum		
Operating Temperature C°	-2°C	45°C

Electricity Consumption		
Kilowatt hours per day (kWh/d)	2.21	
Kilowatt hours per 1000L		OTMENT OF TA
(kWh/1000L)	1.62	Ar S
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		Q APPROVED Y
	Servicing and Maintenance	26 FEB 2024
Servicing Frequency	Every 3 months	СНО
		OF WA



Components List & Repair/ Replacement Instructions:

- 1. Primary Chamber
- 2. Secondary Chamber
- 3. Aeration Chamber
- 4. Clarifier Chamber
- 5. Irrigation Chamber
- 100mm inlet Junction, BIO Block
- 100mm Junction x 2
- 100mm Junction x 2, BIO Block, Air Lift, Disk Diffuser
- 100mm Junction, Taylex Filter Control, Recirculation Chamber
- 100mm Junction, Chlorine Dispenser, Irrigation Pump, High Level Alarm Float, 100mm Elbow

Component List

TANK

Polyethylene Tank and Lid

Multi-chambered monolithic poly tank made using a sandwiched, closed-cell foam polymer manufacturing method.

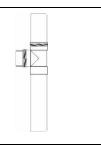
Repair / Replacement Details:

Replacement lids available from Taylex or your local Service Agents.

Cracks can be repaired using a poly welder.



- 1) 100mm Sweep Tee With dropper pipe and riser.
- 2) Repair / Replacement Details:
- Replacement tee and pipe can be purchased from a local plumbing store. Cut 100mm pipe at wall and using a 100mm slab repair coupling install new tee.
- 5)



4) BIO Block Media Width - 385mm Length - 110mm Height - 1400mm Surface Area - 20.6m²

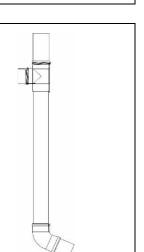




6) 100mm Sweep Tee With 1000mm dropper pipe and 100mm 45° M&F Bend

Repair / Replacement Details:

Replacement tee and pipe can be purchased from a local plumbing store. Cut 100mm pipe at wall and using a 100mm slab repair coupling install new tee.





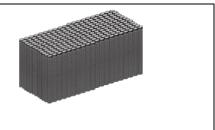
7) Diffuser x 2 Material - EPDM Diameter - 250mm (9 inch)

Repair / Replacement Details:

Turn the system off. Replace the diffuser by making a new complete aeration pipe assembly fitted with the Diffuser. Cut the main aeration supply line, place the new diffuser in the system, weighed down with a small concrete block and rotate the diffuser under the biomass. Re fix the new aeration pipe assembly complete with a joining socket. Removing the old Diffuser is not required. Turn the system on. Purchase the complete assembly from Taylex.



8) BIO Block Media Width - 550mm Length - 1100mm Height - 500mm Surface Area - 105m²

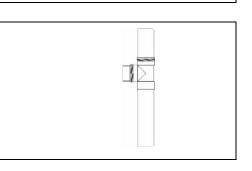


9) 100mm Sweep Tee With dropper pipe and riser.

Repair / Replacement Details:
Replacement tee and pipe can be purchased from a local plumbing

store. Cut 100mm pipe at wall and using a 100mm slab repair

13) coupling install new tee.



11) Recirculation System

For the transfer of fluids using the 'Venturi Principle'. Air is injected toward the base of a vertical open ended PVC conduit. Continuous displacement occurs as the air moves vertically to the liquid, drawing liquid through the bottom of the conduit. The air/liquid mixture reaches a vertical maximum where it then moves through the 90° bend into the primary chamber. The conduit is arranged in the base of the clarifier so that the residual sludge constitutes the main vacuum target.

Sludge Base Removal

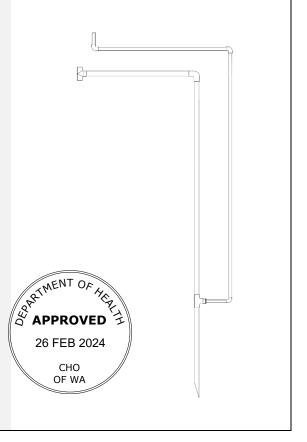
Sludge deposit removal is to be scheduled 1 time per 6 years or as determined necessary by a licenced Taylex Sales Technician or the client or due to mechanical failure.

Servicing

Routine maintenance/servicing of the Taylex PABSNR -2000 is to be scheduled quarterly or as determined necessary by an approved Taylex Sales Technician or due to mechanical failure. Refer to Field Service Report sheet for testing requirements.

Repair / Replacement Details:

Turn the system off. Replace the Sludge Recirculation Assembly by cutting the main line and installing the new assembly with a joining socket. Turn the system on Purchase the complete assembly from Taylex.



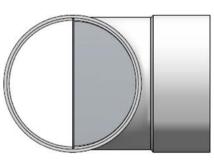


12) Taylex Filter Control (TFC) Material - HD Polyethylene

Repair / Replacement Details:

Replace the TFC assembly by cutting the 100mm slab repair coupling, install the replacement TFC assembly.





14) Chlorine Dispenser

Material – HD Polyethylene Length – 500mm

Diameter - 90mm

The chlorine dispenser is placed in the 100mm Tee located in the irrigation chamber.

Repair / Replacement Details:

Repairing the Chlorine Dispenser is not recommended. If the Dispenser is damaged, replace it with a new unit. Purchase the complete assembly from Taylex.



15) Irrigation Pump

The irrigation pump is self-controlled via a ball bearing activated float switch. When the according volume is reached in the pump chamber, the ball bearing in the float moves and creates an active connection. The treated effluent is pumped to the approved dispersal zone, as the chamber reaches minimum volume, the float drops and deactivates the pump. The type and capacity of the pump will be in accordance with the land application requirements.

Repair / Replacement Details:

Turn the system off. Replace the pump by disconnecting the barrel union, be sure not to drop the internal valve assembly. Lift the Pump Assembly out of the tank. Undo the threaded fitting connect to the outlet of the pump. Re apply thread tape and fix the threaded fitting back onto the pump. Return the assembly to the tank and reconnect the barrel union, ensuring the valve is seated correctly. Turn the system on. Purchase the correct pump from Taylex or a local outlet, ensuring the performance is identical to the pump removed.

DAVEY D25 - 9m Head Voltage - 220 ~240 IP 68 AMPS - 1.9 Phase 1 50hZ Max Flow - 200L/min 7m <u>DAVEY D42A/B3 - 32m Head</u> Voltage - 220 - 240 IP 68 AMPS - 4.3 Phase 1 50hZ Max Flow - 130L/min 7m





Alarm System High Water 17)

Material - PVC

Length - 20mm

Width - 90mm

Trigger - High Water

Code - 3

Visual - Red L.E.D - 3 Flashes

Audible - Micro Buzzer

Voltage - 12V

Repair / Replacement Details:

Turn the system off. Replace the float by disconnecting the electrical connection in the terminal block, located in the lower section of the control box. Feed the new float cable into the control box and connect to the terminal block, fixing the screws firmly. Re fix the float to the pipe assembly and loop the lead around the barrel union, to set the float height. Turn the system on. Purchase the float from Taylex.



18) Non- Return Valve

Height - 85mm

Length - 140mm

Width - 85mm

Repair / Replacement Details:

Turn the system off. Replace the Non-Return Valve by cutting the pipe in either side of the valve. Re-join the pipe using sockets and glue the Valve and sockets together. Ensure the glue is set before turning the system back on.

Control Panel Box

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19)

Material - HD Polyethylene

Height - 210mm

Length - 190mm

Width - 85mm

CHO OF WA The weatherproof control box is fixed to the side of the blower box using stainless steel screws. The control panel is fitted to the inside of

Repair / Replacement Details:

Repairing boxes is not recommended. Replacements boxes be purchased from Taylex or your local service agent.

this box and is connected to the power, high water alarm and

pressure switch, via a gland at the back of the box.

26 FEB 2024



ECO Control Panel 20)

(240v to 12V Power Supply)

Length - 160mm

Height - 100mm

The Taylex ECO is a 12V controller powered by the 240v to 12v power supply plug. As the unit is 12V all works including replacements and repairs do not need to be completed by a Licenced Electrician. All service agents can therefore complete all works within the Control Box and on the Taylex ECO Controllers.

The Taylex ECO Controller Assembly (complete with Controller, Control Panel Box, 3 x GPO Assembly and Blower Box) is classed as electrical equipment and has been certified to comply with AS/NZS 3820, meeting the Electrical Safety requirements in Australia and New Zealand

Repair / Replacement Details:

Turn the system off. Replace the Control Panel by removing the 4 screws in the control box. Disconnect the Loom plug from the rear of the panel. Connect the loom to the new panel; return the new Control Panel to the control box and re fix the 4 screws. Turn the system on. Purchase the Control Panel from Taylex.





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21) L.E.D Light Height - 30mm

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OF WA

Height - 30mm Length - 20mm

The LED visual alarm is constructed within the Eco Panel. This LED Red light will flash when an alarm is present. The number of flashes represent the particular code.

Repair / Replacement Details:

Replacement of the LED lights only is not possible; the complete Control Panel must be replaced. Purchase the Control Panel from Taylex.



22) Blower Box

Material - HD Polyethylene

Height - 350mm Length - 600mm Width - 400mm

The Blower boxed is fitted to the lid of the ABS using 4 \times 30mm anchors.

Repair / Replacement Details:

Repairing boxes is not recommended. Replacement boxes can be purchased from Taylex or your local service agent.



23) Weatherproof GPO's

Single Double

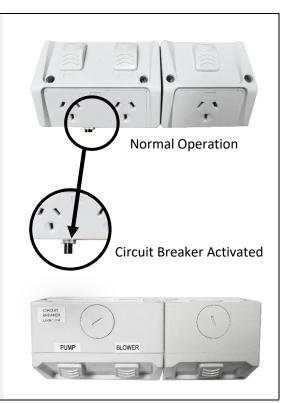
 $\begin{array}{lll} \mbox{Height} - 85\mbox{mm} & \mbox{Height} - 85\mbox{mm} \\ \mbox{Length} - 85\mbox{mm} & \mbox{Length} - 115\mbox{mm} \\ \mbox{Width} - 80\mbox{mm} & \mbox{Width} - 80\mbox{mm} \end{array}$

Mains 10amp power is connected through the 25mm coupling provided on the side of the PABSNR -2000 and pulled up through a conduit into the Single GPO. The 12volt power pack plugs into the single GPO to power the control panel. The blower and irrigation pump are plugged into the double GPO.

The double GPO contains a 5amp circuit breaker, which will activate if either the pump or blower (or both) draw too many amps, indicating a fault with the pump or blower. The breaker can be reset by pushing in the button if activated. The systems normal operation including alarms will continue to function, if the breaker is activated.

Repair / Replacement Details:

Replacing the GPO's can only be completed by a licenced electrician, please refer to the Taylex Electrical Connection instructions for details. Replacements can be purchased from Taylex or your local service agent.





24) Nitto 80L Blower

Material - Alloy / Plastic Height - 188mm

Width - 214mm

Length - 305mm Weight - 5.3kg

Noise Rating: 40dB(A)

Capacity - 80L

Back Pressure Range - 5kpa - 20kpa

Motor Power - 86 Watts

Power Source - 240V 50hZ

Repair / Replacement Details:

Purchase replacement Blowers and parts from Taylex.



25) Recirculation Control Valve

The Recirculation system has been designed to recirculate a precise volume of bacteria and sludge back to the primary chamber for denitrification and sludge management. The control valve should be set to '10' on the dial for optimum operation.

Repair / Replacement Details:

Turn the system off. Replace the Recirculation assembly by cutting the main line and installing the new assembly with a joining socket. Turn the system on. Purchase the complete assembly from Taylex.







GLOBAL CERTIFICATION PTY LTD

ACN 141 877 278

31st January 2024

Taylex Australia Pty Ltd

Attn:- Steve Tedmanson

Re:- Certificate #040-22 ABS 1500

Hi Steve,

Thank-you for submitting the documentation request regarding the TFC filter. I have reviewed the revised drawings and see that there is no change to the flow-path of the system, as well as seeing the performance figures for the 1350 and 2000 systems that utilised the new TFC in their recent round of testing.

As such, I am satisfied for the revision of the 1500 system to include this change in comparison to the requirements of AS 1546.3:2017 in what does and does not trigger a retest. The increase in surface area of the media will also be allowed under the changes permitted in the standard.

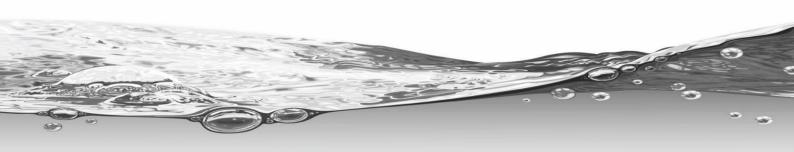
Kind Regards,

Dave Steer

QLD State Manager & Manager Product Certification

Global Certification Ptv Ltd





SPECIFICATIONS

ADVANCED BLOWER SYSTEM 5000 (ABS5000)







TAYLEX® ADVANCED BLOWER SYSTEM 5000 **ABS5000**

Specifications

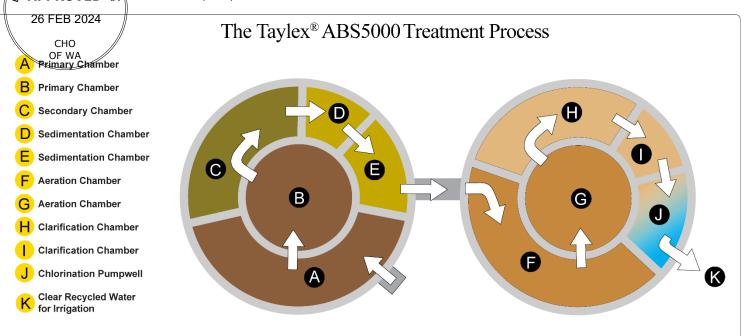
General Description

The Taylex[®] ABS5000 (Advanced Blower System 5000) Secondary Treatment System (STS) is designed to treat the wastewater from a large domestic or suitable commercial dwelling up to 5,000 Litres per day, with a daily flow of 150 Litres per person and an average daily BOD⁵ 70g per person.

The Taylex® ABS5000 STS is contained in two vertical axis type cylindrical precast Concrete collection wells with a design capacity of 11,062 Litres per tank and a combined operating capacity of 14,451 Litres.

Flow path of wastewater:

- 1. Two Primary pre-treatment chambers, with a combined capacity of 4,630 Litres.
- 2. A secondary pre-treatment chamber, with a capacity of 1,490 Litres.
- 3. Two Sedimentation chambers with a combined capacity of 1,490 Litres.
- 4. Two Aeration chambers, with a combined capacity of 4,310 Litres. These chamber are both fitted with bio block media, and dual 9" disk diffusers.
- 5. Two Clarifying chambers, with a combined capacity of 1,910 Litres, containing a Taylex® Disk Filter fitted to the outlet, in the second chamber.
- 6. A Chlorination Pumpwell chamber, with a capacity of 621 Litres, incorporating a capacity of 300 Litres for chlorine contact of effluent. A chlorine disinfection unit is installed on the inlet to the irrigation chamber. The system is fitted with either a Davey D25 or D42 Irrigation Pump.
- The automatic irrigation pump transfers the treated effluent to the effluent disposal area / land APPROVED application area (LAA).





Product Specification Table

Australian Standards Compliance			
Effluent Testing AS1546.3:2017			
Tank Design and Testing	In Ground	AS1546.1:2008	
	Above Ground	AS3735:2001	
System Model	ABS5000 Concrete		
Treatment Level	Advanced Secondary		

Tank Capacity			
	Tank 1	Tank 2	Total
Tank Capacity	11,062L	11,062L	22,124L
Operating Capacity	7610L	6841L	14,451L

	System Operating Capacities				
Maximur	Maximum Hydraulic Loading Capacity 5,000 litres per day				
Chambers	Tank 1:				
Α	Primary Chamber	2,350L			
В	Primary Chamber	2,280L			
С	Secondary Chamber	1,490L			
D	Sedimentation Chamber	640L			
E	Sedimentation Chamber	850L	MENT OF		
	Tank 2:		RRIVE TE		
F	Aeration Chamber	2,200L	APPROVED E		
G	Aeration Chamber	2,110L	26 FEB 2024		
Н	Clarifier Chamber	1,340L	20 PEB 2024		
ı	Clarifier Chamber	570L	CHO OF WA		
J	Chlorination Pumpwell	621L	OF WA		

Design Parameters		
Parameter	Total Per Day	Total Per person per day
Daily flow	5000L	150L
Maximum Organic Loading BOD⁵	700g	70g
Total Suspended Solids (TSS)	700g	70g
Total Nitrogen (TN)	150g	15g
Total Phosphorus(TP)	25g	2.5g

Effluent Compliance: AS1546.3:2017			
Biochemical Oxygen Demand (BOD⁵)	≤10mg/l		
Total Suspended Solids (TSS)	≤10mg/l		
E. Coli	≤10cfu/100ml		

Temperature			
	Minimum	Maximum	
Operating Temperature C°	-2°C	45°C	

Electricity Consumption			
Kilowatt hours per day (kWh/d)	6.16		
Kilowatt hours per 1000L (kWh/1000L)	1.36		

Servicing and Maintenance		
Servicing Frequency	Every 3 months	



COMPONENTS LIST AND REPAIR - REPLACEMENT INSTRUCTIONS

A. Primary Chamber

B. Primary Chamber

C. Secondary Chamber

D. Sedimentation Chamber

E. Sedimentation Chamber

F. 1st Aeration ChamberG. 2nd Aeration Chamber

H. 1st Clarification Chamber

I. 2nd Clarification Chamber

J. Irrigation

- 100mm x 150mm inlet Junction

- NIL

- 100mm Junction, D25 Pump, High Level Alarm Float

- 100mm Junction, 100mm x 150mm Junction with pipe media and $\,$

BIO Block

- 100mm Junction, 100mm x 150mm Junction with pipe media and

BIO Block

- 100mm Junction x 2, BIO Block, 2 x Air Diffusers

- 100mm Junction x 2, BIO Block, 2 x Air Diffusers

- 100mm Junction x 2

- 100mm Junction, Taylex® Disk Filter

- Dual Chlorine Dispenser, D25 / D42 Pump, High Level Alarm Float,

2 x 45° Bends, 1 x 90° Bend

Component List

APPROVED 26 FEB 2024

TANK 1

Concrete Tank and Lid

Made from 32mpa concrete with SL 41Mesh

Repair / Replacement Details:

Replacement lids available from Taylex® Industries or your local Service Agents.

Chips and cracks can be repaired using Sika panel patch or mortor.



TANK 2

Concrete Tank and Lid

Made from 32mpa concrete with SL 41Mesh

Repair / Replacement Details:

Replacement lids available from Taylex® Industries or your local Service Agents.

Chips and cracks can be repaired using Sika panel patch or mortor.

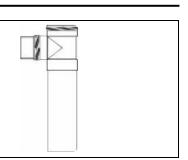




1) 150mm x 100mm Sweep Tee With 600mm dropper pipe

Repair / Replacement Details:

Replacement tee and pipe can be purchased from a local plumbing store. Cut 100mm pipe at wall and using a 100mm slab repair coupling install new tee.



2) Lift Pump

Effluent is pumped to Sedimentation Chamber (D). If the chamber reaches minimum volume, the float drops and deactivates the pump.

Repair / Replacement Details:

Turn the system off. Replace the pump by disconnecting the barrel union, be sure not to drop the internal valve assembly. Lift the Pump Assembly out of the tank. Undo the threaded fitting connect to the outlet of the pump. Re apply thread tape and fix the threaded fitting back onto the pump. Return the assembly to the tank and re-connect the barrel union, ensuring the valve is seated correctly. Turn the system on. Purchase the correct pump from Taylex® or a local outlet, ensuring the performance is identical to the pump removed.

DAVEY D25VA - 6.5m Head

Voltage - 220 ~240 IP 68

AMPS - 2 Phase 1 50hZ

Max Flow - 100L/min 4.5 head



3) High Level Alarm Float

34) Material – PVC

Length - 20mm

Width - 90mm

Trigger - High Water

Code - 3

Visual - Red L.E.D - 3 Flashes

Audible - Micro Buzzer

Voltage - 12V

Repair / Replacement Details:

Turn the system off. Replace the float by disconnecting the electrical connection in the terminal block, located in the lower section of the control box. Feed the new float cable into the control box and connect to the terminal block, fixing the screws firmly. Re fix the float to the pipe assembly and loop the lead around the barrel union, to set the float height. Turn the system on. Purchase the float from Taylex[®].

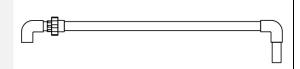


4) 32mm Lift Pipe

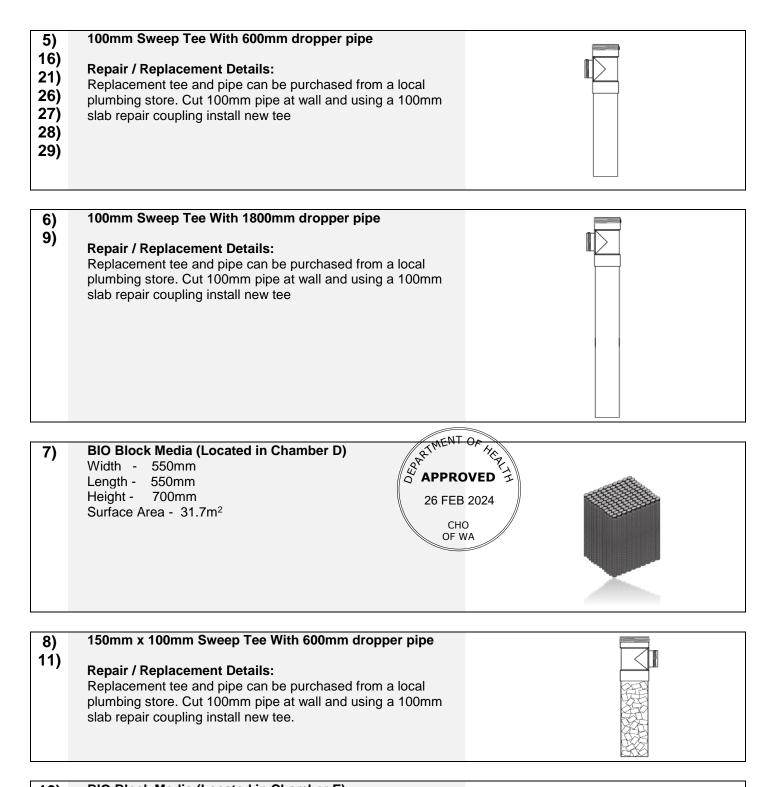
Transfer pump line, including Barrel Union.

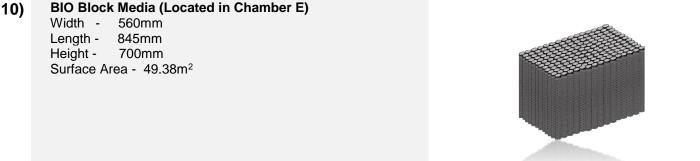
Repair / Replacement Details:

Replacement fittings, pipes and barrel union can be purchased from a local plumbing store. Cut 32mm pipe to repair or replace.











12) Two Blower Boxes

35) Material – HD Polyethylene

41) Height – 350mm Length – 600mm Width – 400mm

The Blower boxed is fitted to the lid of the ABS using 4 x 30mm anchors.

Repair / Replacement Details:

Repairing boxes is not recommended. Replacement boxes can be purchased from Taylex® or your local service agent.



13) 2 x Single Weatherproof GPO's

Single Total

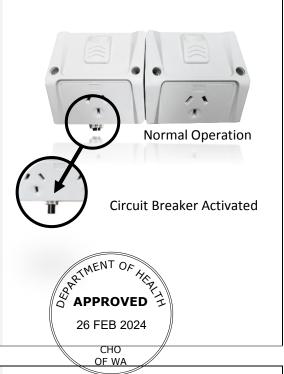
 $\begin{array}{lll} \mbox{Height} - 85\mbox{mm} & \mbox{Height} - 85\mbox{mm} \\ \mbox{Length} - 85\mbox{mm} & \mbox{Length} - 230\mbox{mm} \\ \mbox{Width} - 80\mbox{mm} & \mbox{Width} - 80\mbox{mm} \end{array}$

Mains 10amp power is connected through the 25mm coupling provided on the side of the ABS5000 and pulled up through a conduit into the GPO on the right. The 12volt power pack plugs into this GPO to power the control panel. The transfer pump is plugged into the GPO on the left.

The GPO on the left contains a 7amp circuit breaker, which will activate if the pump draws too many amps, indicating a fault with the pump. The breaker can be reset by pushing in the button if activated. The systems normal operation including alarms will continue to function, if the breaker is activated.

Repair / Replacement Details:

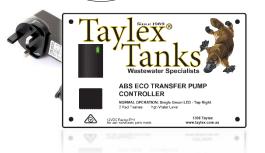
Replacing the GPO's can only be completed by a licenced electrician, please refer to the Taylex® Electrical Connection instructions for details. Replacements can be purchased from Taylex® or your local service agent.



14) Eco Transfer Pump Controller

On power up, a green light will appear in the top right corner, this shows normal operation.

The Secondary Chamber is fitted with a High Water Float. Once engaged, the Controller will indicate the alarm, 3 flashing LED's.



15) Control Panel Box

38) Material – HD Polyethylene

Height – 210mm

Length – 190mm

Width - 85mm

The weather proof control box is fixed to the side of the blower box using stainless steel screws. The control panel is fitted to the inside of this box and is connected to the power, high water alarm and pressure switch, via a gland at the back of the box.







Repair / Replacement Details:

Repairing boxes is not recommended. Replacements boxes be purchased from Taylex® or your local service agent.

17) Diffuser

19) Material – EPDM

23) Diameter – 230mm (9inch)

25) Rep

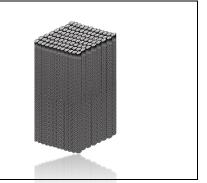
Repair / Replacement Details:

Turn the system off. Replace the diffuser by making a new complete aeration pipe assembly fitted with the Diffuser. Cut the main aeration supply line, place the new diffuser in the system, weighed down with a small concrete block and rotate the diffuser under the biomass. Re fix the new aeration pipe assembly complete with a joining socket. Removing the old Diffuser is not required. Turn the system on. Purchase the complete assembly from Taylex[®].



18) BIO Block Media (Located in Chamber F)

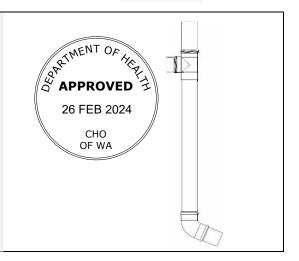
20) Width - 550mm Length - 550mm Height - 1400mm Surface Area - 63.3m²



22) 100mm Sweep Tee With 1000mm dropper pipe and 100mm 45° M&F Bend

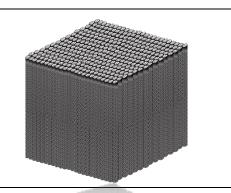
Repair / Replacement Details:

Replacement tee and pipe can be purchased from a local plumbing store. Cut 100mm pipe at wall and using a 100mm slab repair coupling install new tee.



24) BIO Block Media (Located in Chamber G)

Width - 1100mm Length - 1100mm Height - 1400mm Surface Area - 126.6m²





30) Taylex TFG Disk Filter

Material – A.B.S and Nylon Height – 400mm Diameter – 300mm

Repair / Replacement Details:

Replace the TFG filter complete by removing the filter from the housing and inserting the new filter. If Filter Rods require replacement, remove the old rods, one by one, inserting the new rod each time so the filter plates remain assembled. To replace the entire housing, cut and remove the old housing in the transfer pipe, insert a slab repair coupling, re glue and fit the new housing. Ensure the glue is set before re-fitting the TFG filter. Purchase the complete assembly from Taylex[®].



31) Chlorine Dispenser

Material – HD Polyethylene Length – 400mm Width – 175mm

The chlorine dispenser is placed in the 100mm Tee located in the irrigation chamber.

Repair / Replacement Details:

Repairing the Chlorine Dispenser is not recommended. If the Dispenser is damaged, replace it with a new unit. Purchase the complete assembly from Taylex[®].



32) Irrigation Pump

The irrigation pump is self-controlled via a ball bearing activated float switch. When the according volume is reached in the pump chamber, the ball bearing in the float moves and creates an active connection.

The treated effluent is pumped to the approved dispersal zone, as the chamber reaches minimum volume, the float drops and de-activates the pump. The type and capacity of the pump will be in accordance with the land application requirements.

Repair / Replacement Details:

Turn the system off. Replace the pump by disconnecting the barrel union, be sure not to drop the internal valve assembly. Lift the Pump Assembly out of the tank. Undo the threaded fitting connect to the outlet of the pump. Re apply thread tape and fix the threaded fitting back onto the pump.

Return the assembly to the tank and re-connect the barrel union, ensuring the valve is seated correctly. Turn the system on. Purchase the correct pump from Taylex® or a local outlet, ensuring the performance is identical to the pump removed.

<u>DAVEY D25 – 9m Head</u> Voltage – 220 ~240 IP 68 AMPS – 1.9 Phase 1 50hZ Max Flow – 200L/min 7m

<u>DAVEY D42A/B3 – 32m Head</u> Voltage – 220 ~240 IP 68 AMPS – 4.3 Phase 1 50hZ Max Flow – 130L/min 7m





33) Non- Return Valve

Height – 85mm Length – 140mm Width – 85mm

Repair / Replacement Details:

Turn the system off. Replace the Non- Return Valve by cutting the pipe in either side of the valve. Re-join the pipe using sockets and glue the Valve and sockets together. Ensure the glue is set before turning the system back on.



36) Nitto 120L Blower

Material – Alloy / Plastic
Height – 232mm
Width – 210mm
Length – 407mm
Weight – 9.7kg
Noise Rating: 40dB(A)
Capacity – 120L

Back Pressure Range - 5kpa - 25kpa

Motor Power – 130 Watts Power Source – 240V 50hZ

Repair / Replacement Details:

Purchase replacement Blowers and parts from Taylex®.



37) Weatherproof GPO's

Single Double

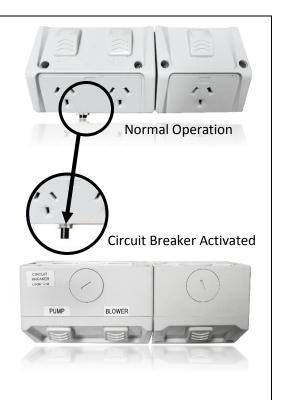
 $\begin{array}{lll} \mbox{Height} - 85\mbox{mm} & \mbox{Height} - 85\mbox{mm} \\ \mbox{Length} - 85\mbox{mm} & \mbox{Length} - 115\mbox{mm} \\ \mbox{Width} & - 80\mbox{mm} & \mbox{Width} - 80\mbox{mm} \end{array}$

Mains 10amp power is connected through the 25mm coupling provided on the side of the ABS5000 and pulled up through a conduit into the Single GPO. The 12volt power pack plugs into the single GPO to power the control panel. The blower and irrigation pump are plugged into the double GPO.

The double GPO contains a 7amp circuit breaker, which will activate if either the pump or blower (or both) draw too many amps, indicating a fault with the pump or blower. The breaker can be reset by pushing in the button if activated. The systems normal operation including alarms will continue to function, if the breaker is activated.

Repair / Replacement Details:

Replacing the GPO's can only be completed by a licenced electrician, please refer to the Taylex® Electrical Connection instructions for details. Replacements can be purchased from Taylex® or your local service agent.







39) L.E.D Light

Height – 30mm Length – 20mm

The LED visual alarm is constructed within the Eco Panel.

The Green LED light indicates normal operation.

The Red LED lights will flash when an alarm is present. The number of flashes represent the particular code.

Repair / Replacement Details:

Replacement of the LED lights only is not possible; the complete Control Panel must be replaced. Purchase the Control Panel from Taylex®.



40) ECO Control Panel (240v to 12V Power Supply)

Length – 160mm Height – 100mm

The Taylex® ECO is a 12V controller powered by the 240v to 12v power supply plug. As the unit is 12V all works including replacements and repairs do not need to be completed by a Licenced Electrician. All service agents can therefore complete all works within the Control Box and on the Taylex® ECO Controllers.

The Taylex® ECO Controller Assembly (complete with Controller, Control Panel Box, 3 x GPO Assembly and Blower Box) is classed as electrical equipment and has been certified to comply with AS/NZS 3820, meeting the Electrical Safety requirements in Australia and New Zealand.

The ABS5000 system includes a Back To Base Alarm Modem. This modem alerts the customer / service agent of any alarms present on the system by SMS message, direct to up to 3 preprogrammed contact numbers. If power is ever lost to the system, the modem includes a back-up battery, which will continue to operate the modem and trigger a 'No Power' alarm.

Repair / Replacement Details:

Turn the system off. Replace the Control Panel by removing the 4 screws in the control box. Disconnect the Loom plug from the rear of the panel. Connect the loom to the new panel. Teleproteen new Control Panel to the control box and re fix the system on. Purchase the Control Panel from Taylex®.



43) Single Weatherproof GPO

Height – 85mm Length – 85mm Width – 80mm CHO OF WA

26 FEB 2024

Mains 10amp power is connected through the 25mm coupling provided on the side of the ABS5000 and pulled up through a conduit into the GPO.

The GPO contains a 7amp circuit breaker, which will activate if the blower draws too many amps, indicating a fault with the blower. The breaker can be reset by pushing in the button if activated. The systems normal operation including alarms will continue to function, if the breaker is activated.

Repair / Replacement Details:

Replacing the GPO can only be completed by a licenced electrician, please refer to the Taylex® Electrical Connection instructions for details. Replacements can be purchased from Taylex® or your local service agent.

