

# HOME OWNERS MANUAL



## Taylex™ Advanced Blower System (ABS)

An Advanced Secondary  
Home Sewage Treatment Plant (HSTP)  
Aerated Wastewater Treatment System (AWTS)  
or Aerated Treatment Unit (ATU)

Since 1969  
**Taylex**  
**Tanks**  
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## 1. ABOUT TAYLEX™

Taylex is an Australian Company which commenced business in 1969 manufacturing the first purpose designed Home Sewage Treatment Plant in Australia. Our Head Office and factory is based in Ormeau, Southern Queensland.

Taylex has a national group of Authorised Distributors who market, install and service the range of Taylex tanks throughout Australia. They are all privately owned and operated small business enterprises in your local area. They are issued with Certificates of Competency by Taylex verifying their successful training in the installation and maintenance of Taylex equipment.

Taylex has an ongoing commitment to the industry and is a member of the Wastewater Practitioners Association. It has ISO:9000 Certification and its products are approved by all State Authorities and comply with all relevant Australian Standards.

Taylex also has a commitment to continually developing the best products by way of its Research & Development activities. The Taylex ABS is a product of this research.

Most importantly, Taylex has a continuing commitment to its clients, the end user of its products. This is honoured by only appointing the best tradespeople as its Authorised Distributors, generously honouring any valid Warranty claim that a Distributor presents on an owner's behalf, providing spare parts back-up, in-service training at our manufacturing works and assistance, when necessary, in the field.

Taylex is now operated by the second generation of the founding families and we are determined to be here for at least the next 40 years.

Please refer to our website for additional information

**[www.taylex.com.au](http://www.taylex.com.au)**

## **2. WHAT IS A HOME SEWAGE TREATMENT PLANT (HSTP)?**

*Also known as an Aerated Wastewater Treatment System (AWTS).*

A HSTP is a tank that contains and treats all of the waste water generated from your home.

This means you can have all the advantages of mains sewerage, even when there is none – full flush toilets, installation of a washing machine and dishwasher, multiple baths and showers, hand basins, en-suite to the master bedroom, a family bathroom as well as a guests toilet and hand basin – and ALL THE WATER YOU USE IN THE HOME IS AUTOMATICALLY RE-USED IN YOUR GARDEN.

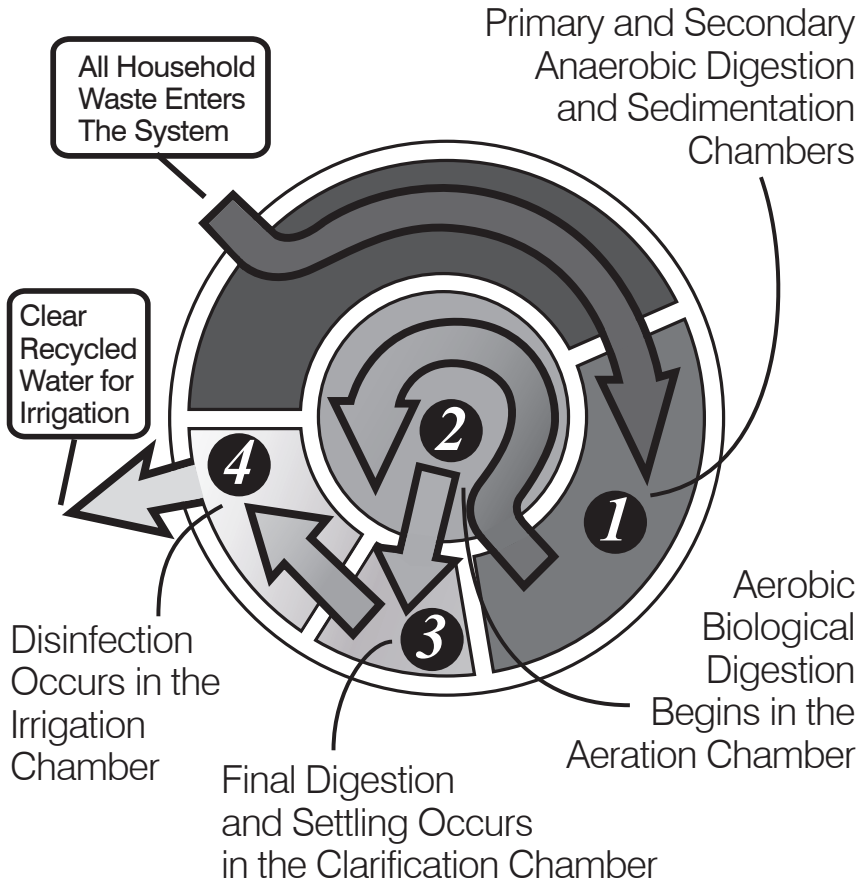
It is your own mini sewage treatment plant.

## **3. HOW DOES A HSTP WORK?**

The wastewater from your home contains numerous types of living bacteria. Some of these bacteria use our waste products as a food source while others use these waste eating bacteria as their food source.

This process is natural and is just how nature intended it to be. When the wastewater is supplied with oxygen, these natural bacteria double their numbers every 8 hours until there are literally billions of them living in the tank, automatically reducing the wastes to a non-polluting liquid – reclaimed water.

# The Four Stages to a Taylex Treatment System



## **4. WHAT DOES A HSTP NEED?**

- a) FOOD**
- b) AIR**
- c) A GOOD ENVIRONMENT**

### ***FOOD***

This is supplied in the water we discharge into the tank. It comes from the toilets, hand basins, sink, showers, washing machine, in fact anything that we put down the sink or flush down the toilet.

### ***AIR***

The Taylex tank is fitted with an air blower that takes fresh air and introduces it to the water through an aerator disc. Some of the gaseous oxygen in the air dissolves in the water as it bubbles up to the top and this gives the water a higher than normal dissolved oxygen content. This is how the bacteria breathe, live and multiply: they can access the dissolved oxygen.

### ***A GOOD ENVIRONMENT***

This is where you have a major influence.

- Too much FOOD will kill the bacteria.
- Too little AIR will kill the bacteria.
- Heavy Pollutants will degrade A GOOD ENVIRONMENT and kill the bacteria.

## 5. WHAT UPSETS THE BALANCE

The greatest cause of problems with your treatment plant are **cleaning products** and the **washing machine**.

### CLEANING PRODUCTS

Unfortunately what we call cleaning products, your HSTP may class as poisons. Like humans, some poisons kill us while others will just make us sick and the same will happen to the bacteria in your HSTP. You must use environmentally friendly products.

Your treatment system relies on bacteria for your system to work effectively. Any product used that kills bacteria is harmful to your system. If you wish to use some of the harsher cleaning products, it is suggested that you use a bucket and discard the contents in the garden. This also applies to disinfectant, surface sprays and wipes.

### WASHING MACHINES

Try to evenly spread your washing over a period of a week. Avoid, where possible, washing everything in one day. It puts too much water in the system and your HSTP will struggle to cope. Liquid soaps breakdown easier than granulate styles do. **Try not to be heavy handed with the amount of soaps you use.**

**When working properly, your HSTP will work efficiently with no odours or problems.**

**It needs a happy balance.**



## 6. SUITABLE PRODUCTS

All products should be used in moderation

### DISWASHING LIQUIDS

Adds	Morning Fresh	Bushlands	Rix
Palmolive	Sunlight	Greenapple	Kit
Finish for Dishwashers (limit quantity)			

### SURFACE CLEANERS

Jiff Cream Cleaner	Spray & Wipe (limit quantity)
Nifty	Swipe
Shower Power	Windex

### TOILET CLEANERS

Jiff Cream Cleaner or any cream cleaner – Toilet fresheners are not recommended.

### FLOOR CLEANERS

Use hot water and detergent.

### LAUNDRY POWDERS AND LIQUIDS

Please look at the Independent Laundry Product Research which is available on the internet at [www.lanfaxlabs.com.au](http://www.lanfaxlabs.com.au)

#### **Please Note:**

The above list is not intended to promote or discredit the product of any Company. It is provided to assist in ensuring the satisfactory on-going operation of your system

## 7. AVOIDABLE PRODUCTS

### ANTIBACTERIAL SOLUTIONS

Antibiotics	Nappy Plus	Pineoclean	Blue Loo
Napisan	Preen Soaker	Bio-Ad	Nappy Soft
Tri-zyme	Bio Jo	Nappy Fresh	Toilet Duck
Milton Tablets	Nursil	Toilet Cleaners	

### BLEACHES

Domestos	Lemon Bleach	White King	Budget Lemon
Zixo	Fiesta	Marvolinn	

### OTHER CLEANERS

Ajax	ESP Herbal	Metho or Kero	Swipol
Aussa	Exit Mould	Flea, Tick Wash	
Handy Andy	Bubble Baths	Floor Cleaners	
Spirits/Alcohol	Draino	Caustic Oven Cleaners	
Green Choice	Down to Earth		

#### **Please Note:**

The above list is not intended to promote or discredit the product of any Company. It is provided to assist in ensuring the satisfactory on-going operation of your system.

## 8. HOW TO LOOK AFTER YOUR TAYLEX HSTP

- **Never turn the electricity supply to the plant OFF\*. Turning the supply OFF will:**

1. Stop the air supply and kill the bacteria.
2. Flood the system
3. Disable the alarm system
4. Cause back-up in your sewer line from the house

The plant will smell, the equipment may be damaged and you will be in contravention of your "Permit to Use" and "Occupancy Certificate".

- **Never pour down the sink or flush down the toilet any of the following:**

1. Anything from your home brew kit
2. Sour milk or yogurt
3. Cooking oils
4. Excess food scraps (particularly from a garbage grinder)

All of these will provide too much food material for the bacteria to use. They must be disposed of in proper containers in your garbage collection.

- **Never dispose of any of the following items into the system**

1. Automotive oil
2. Bleaches, disinfectants, whiteners
3. Nappy liners, condoms, sanitary napkins

Automotive oil is not treatable by the bacteria; the disinfectants will take away all the bacteria's oxygen; the sanitary items are impregnated with anti-bacterial matter, so they will never break down. The results will be - the bacteria will die. The tank will almost certainly need to be pumped out to remove the gross pollutants and the tank refilled and re-started.

Whatever the product, always ensure that it is marked as **Bio-degradable** and **Safe for Use in septic/onsite systems**. Refer to the LANFAX LABORATORIES INDEPENDENT LAUNDRY PRODUCT RESEARCH website for more unbiased information. [www.lanfaxlabs.com.au](http://www.lanfaxlabs.com.au)

## 9. SERVICING YOUR TAYLEX HSTP

All HSTP are required by State laws to be serviced on a quarterly basis. Your local municipality enforces these laws. **Systems may only be serviced by appropriately trained and licensed Wastewater Service personnel.**

There are better reasons for servicing your Taylex HSTP than just complying with the law. Your service person is trained to monitor your system; they can detect problems often before they become a hazard. More importantly, a properly operated and maintained system is your contribution to the environment, right in your own back yard. Correctly operating systems do not smell, they guarantee a healthy physical environment. **They save water and protect the health of your family, friends and neighbours.**

### • HOW CAN YOU ASSIST IN SERVICING YOUR TAYLEX HSTP?

1. Do not cover the top of the tank with earth, gravel, tanbark, concrete, pavers, pot plants, barbecue, swing set, seat etc.
2. Provide clear access to the plant and the inspection openings.
3. If you have a locked yard, provide your service person with a key.
4. **Make sure surface water does not pool and can never enter the plant, even during torrential rain events.**

## 10. WARRANTY

Every Taylex Advanced Blower System is covered by a full manufacturers warranty. There is a 15 year warranty on the pre-cast concrete or plastic tank. 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 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:**

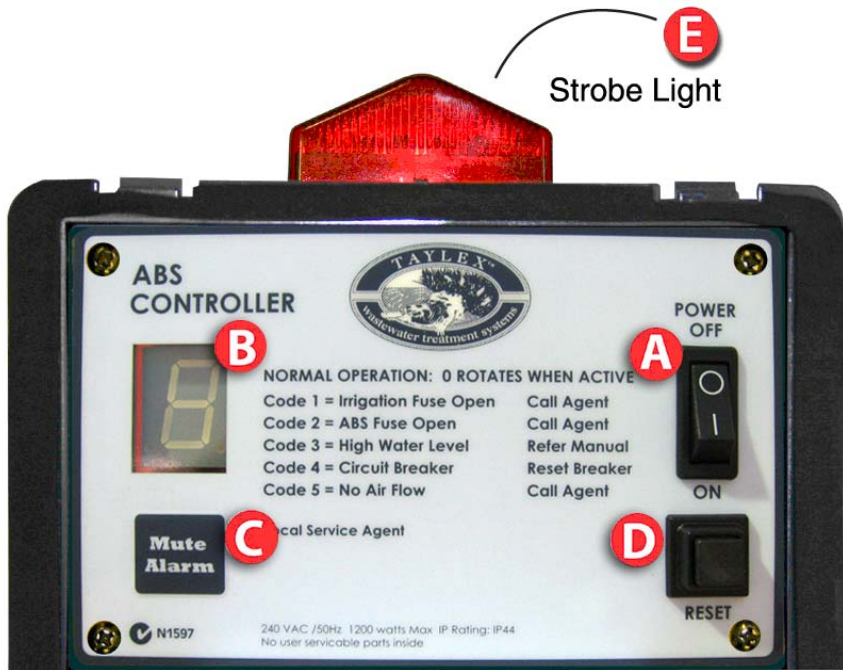
- **DO NOT** use system or allow waste water to enter tanks before power services are available to the System and a Taylex Authorised Distributor has been notified of pending occupancy of the property and has subsequently commissioned (activated) the system.
- **DO NOT** cover lids with soil
- **DO NOT** position concrete paths or driveways over System
- **DO NOT** allow surface water to enter System by incorrect falls and landscaping around System.
- **NEVER** turn the power off unless instructed to do so by your Service Agent

# 11. OPERATING INSTRUCTIONS FOR CONTROLLER

## 1. Introduction

The Taylex ABS Control Panel has a number of features that are explained in this section.

The basic purpose of the Control Panel is to activate and control the functioning of the Treatment Plant's air pump and to register an alarm when it detects a fault in the system.



## 2. General

Your Taylex ABS is designed to operate automatically and its operation will usually be event free. The Control Panel provides visual and audible indicators of both normal operating conditions and fault conditions. The illustration on the previous page provides description markers that correspond with the following description of their operation.

- A. POWER OFF/ON.** Once your Taylex ABS has been commissioned, this switch must remain ON at all times.\* If it is turned OFF no treatment will take place and no alarms will function.
- B. DISPLAY.** This is a 9 digit display that describes normal and abnormal conditions by using a numerical code 1 – 9. See later in this document to understand their meaning.
- C. MUTE ALARM.** This is a “soft touch” key that when pressed, silences the audible alarm for a period of 24 hours.
- D. CIRCUIT BREAKER.** This is a resettable electrical overload that protects your air pump in the event of an excess draw of current. When “tripped” or “open” the square button will protrude from the face of the Control Panel. An audible alarm consisting of 5 consecutive “beeps” will sound, the Strobe Light (E) will flash 5 times consecutively and the number 2 will be displayed on the Display (B)
- E. STROBE LIGHT.** This is a high intensity red light, mounted on the top of the Control Panel, that flashes in unison with the audible alarm to make you aware of a fault condition.

### **3. Normal Operation at Start-up**

Every time that power is switched on to your Taylex ABS Control Panel, the display (B) will count down from 9 to 1. The audible alarm will sound in unison with the numeric progression. This is a TEST MODE, at the completion of which, the display will show a 0 rotating to indicate that the system has tested out correctly. Unless a visual or audible alarm occurs, this is the normal operating display.

### **4. Low Occupancy Mode.**

This function should NOT be accessed by the Home Owner. If it is required, it will be activated by your Service Agent. Incorrect use of this mode may result in poorly treated water being discharged into the environment possibly causing degradation of your land and becoming a health hazard to you, you family, friends and neighbours.

### **5. Alarm Recognition and Rectification.**

#### **Visual Alarms - Strobe Light (E) and Display (B )**

All faults are indicted by the numbers appearing in the display (B) and by the corresponding number of flashes of the strobe light (E). If two faults occur simultaneously, then two numbers will be displayed in sequence, the strobe will mimic these numbers and after a short interval, the display and alarm will repeat the sequence.

#### **Audible Alarm and how to Silence it.**

The audible alarm mimics the number of flashes of the Strobe light and the visual display. To silence the audible alarm, press the Soft Touch Mute Alarm key (C) briefly once. This will silence the alarm for 24 hours, the Display (B) will now flash showing the fault code and indicating that the alarm has been muted. Should another fault occur while the alarm is muted, a new alarm will sound. If the faults are not rectified, the alarm will sound again at the expiration of 24 hours as a reminder that the plant is not operating correctly. The visual alarms cannot be turned off until all faults are rectified.



## 12. Alarm Codes

ALARM	MEANING	ACTION
Code 1	The irrigation fuse has opened	Call your Service Agent
Code 2	The ABS fuse has opened	Call your Service Agent
Code 3	The water level is high	See below*
Code 4	The Circuit breaker has tripped	Reset the breaker
Code 5	No air flow	Call your Service Agent

A high water level may be self correcting. It can be caused by the washing machine discharging at the same time as the bath is being emptied and the dishwasher is pumping out. 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 it does not then check the following:

- a. Is there a filter in the outlet line before the sprays or drippers? Is it blocked?
- b. Is the irrigation line kinked or broken?
- c. Has the irrigation pump failed?

If you can rectify any of these problems yourself, then you will save the call out 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.

## 13. WHO TO CONTACT FOR HELP / TROUBLESHOOTING

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

1. Is the power turned ON at the plant?
2. Are there lights ON in the panel face?
3. Has a Safety Switch, not related to the plant, tripped in your switchboard?
4. Has the outlet hose become kinked, preventing the plant pumping out?
5. If you have removable "Turf Keys" on your sprinklers, make sure they are engaged properly, PUSH DOWN HARD.
6. Is the outlet dripper filter blocked?

**If you have an issue, you can try to reset your system with the following sequence:**

- a. Turn the system OFF using the control panel ON/OFF switch on the front of the panel. This will reset the program.
- b. Turn the system "ON" using the ON/OFF switch.
- c. 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.
- d. If the system goes back into the ALARM mode, call your Service Agent. Limit your water usage until the fault is rectified.**

**You can find your closest Agent on our website**

**[www.taylex.com.au](http://www.taylex.com.au)**

**or call the numbers on the back cover of this manual.**



**For Assistance Please Call**

Your Authorised Distributor



**Taylex** Since 1969  
**Tanks**

[www.taylex.com.au](http://www.taylex.com.au)

**Head Office - 1300 TAYLEX**

If the office is closed, a recorded message will give you a

**24 Hour Assistance Hotline for your area.**

(If no answer please leave your name and number on the messagebank)

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