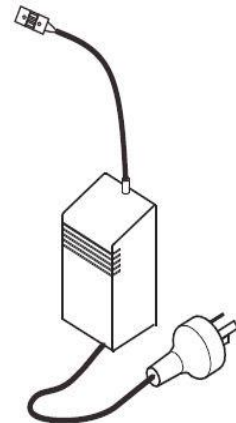
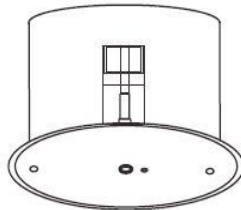
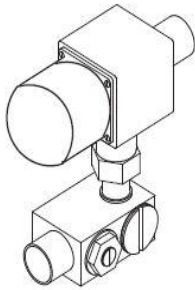




# INSTALLATION INSTRUCTIONS

## URINAL FLUSH VALVE

### ET3-R



**Thank you for purchasing this Enviro-Tech product.**



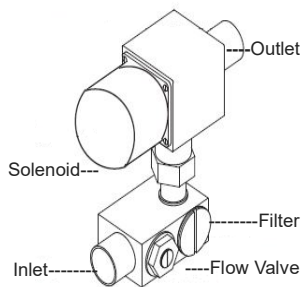
# INSTALLATION INSTRUCTIONS ET-3R URINAL FLUSH VALVE

We strongly recommend that you use a qualified and registered plumber and electrician. You must ensure that all pipe work is flushed adequately, particularly in new builds or where lines have been disrupted. Components of sensor products are particularly susceptible to debris and will require more thorough flushing than a standard plumbing fixture.

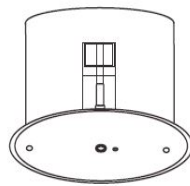
## TECHNICAL SPECIFICATIONS

Function	ET3-R
Power Input	AC:220-240V 50/60Hz)
Power Consumption	900mA
Water Pressure	100kPa-500kPa (recommended 350kPa)
Inlet/Outlet Diameter	15mm 1/2G
Detection Zone	1600x1000mm (adjustable)
Inductive Confirmation Time	6 times within 5 seconds
Confirmation Time After Use	5 seconds
Flush Time	4 seconds (adjustable)
Reset Time After Flush	20 seconds
Trap Seal Protection	Automatic flush every 6 hours if not used
Flush Delay Time	After user leaves: 30 seconds

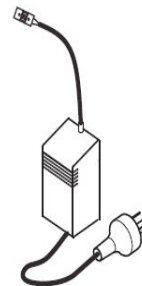
## COMPONENTS



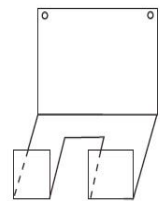
1. Solenoid Valve



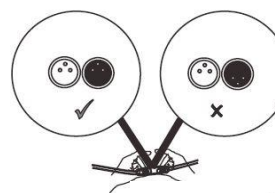
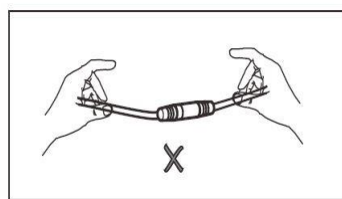
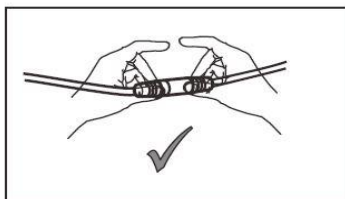
2. Sensor



3. Transformer



4. Bracket

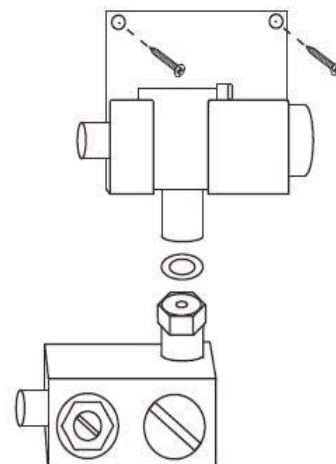


### ATTENTION:

Hold the plug not the wire to connect and disconnect and make sure the pins align to the holes in the right position.

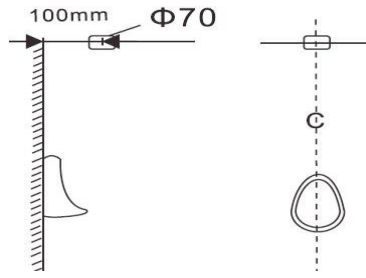
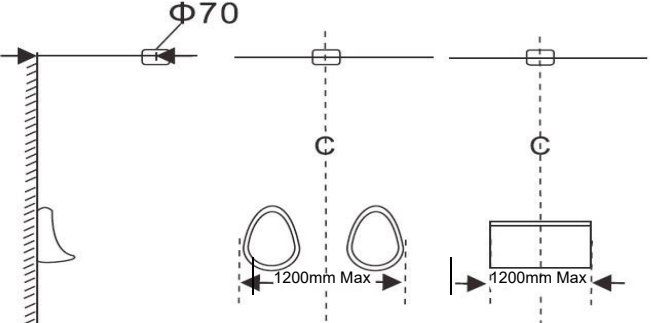
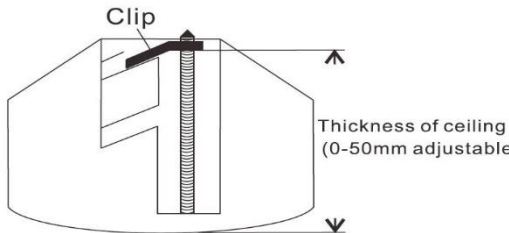
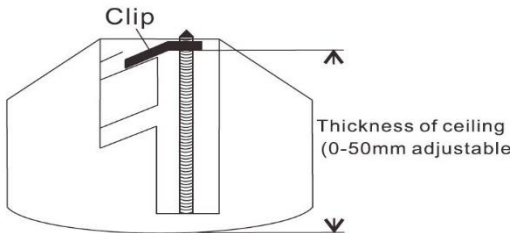
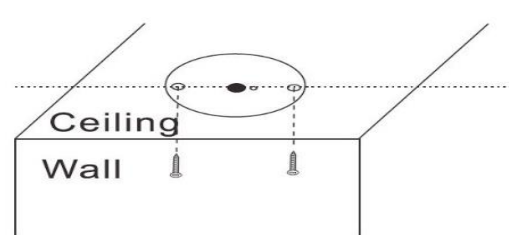
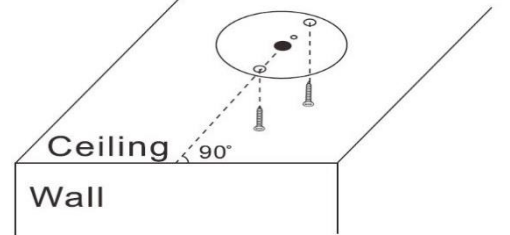
## SOLENOID VALVE INSTALLATION

- Flush Pipework thoroughly – failure to do so will result in solenoid sticking soon after install, which is NOT covered by your product warranty.
- Attach bracket, then insert solenoid valve.
- Connect water feed to inlet valve.
- Connect outlet to urinal.



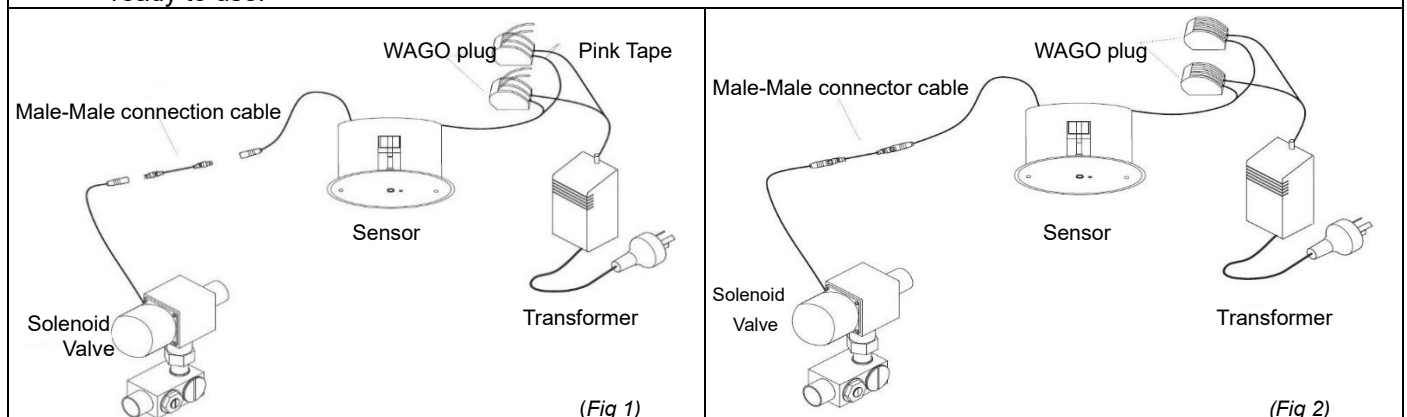
# SENSOR INSTALLATION

**Note:** Ceiling must be level. If ceiling is sloping/pitched the detection zone will be altered.

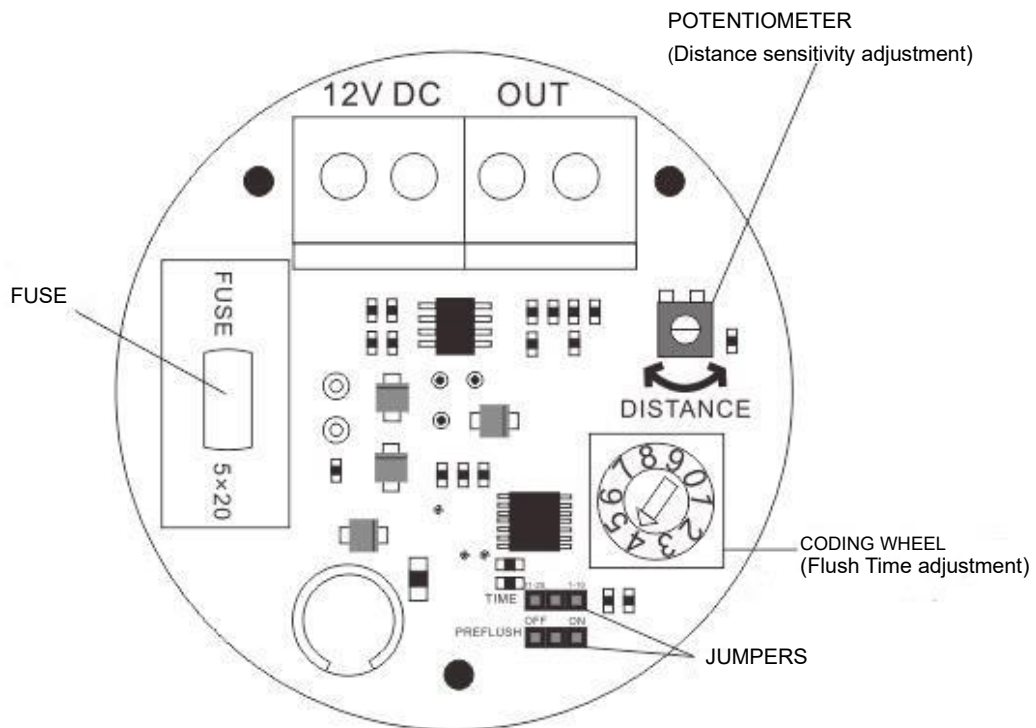
For Single Urinals:	For Twin or Trough Urinals:
<p>1. Drill a 70mm hole in the ceiling centred on the urinal and 100mm from the wall/back of urinal to the centre of the sensor.</p>	<p>1. Drill a 70mm hole in the ceiling centred on the trough or the 2 individual urinals and 300mm from the wall/back of urinal to the centre of the sensor.</p>
	
<p>2. Remove the screws from the sensor plate and install the flush box into the ceiling using the screw clips. (Ensure the screw holes are aligned as shown in 3)</p>	<p>2. Remove the screws from the sensor plate and install the flush box into the ceiling using the screw clips. (Ensure the screw holes are aligned as shown in 3)</p>
	
<p>3. First make any changes required to flush time or pre-flush settings (see page 4 &amp; 5). Then refix the sensor plate using the 2 screws. <b>Ensure sensor plate screws are parallel to wall for a single urinal.</b></p>	<p>3. First make any changes required to flush time or pre-flush settings (see page 4 &amp; 5). Then refix the sensor plate using the 2 screws. <b>Ensure sensor plate screws are aligned facing the wall for twin or trough urinals.</b></p>
	

## CABLE CONNECTIONS OF ET3-R

- Insert and connect male to male connection cable between sensor and solenoid (Fig 1)
- Connect sensor to transformer with WAGO connectors. **Ensure marked taped ends go together in one connector, unmarked ends into the other** (Fig 1).
- Lock WAGO connectors and then connect transformer to mains power (Fig 2). System will run test and be ready to use.



# SETTINGS



## DISTANCE

Turn the potentiometer clockwise to increase the sensing distance and anti-clockwise to decrease it.

## FACTORY SETTINGS

- Pre-flush is “ON”.
- Time is “4”.
- “1-10 Jumper Right” at 350kPa, giving flush volume of 0.8ltr for a single urinal.

## PRE-FLUSH ON/OFF

- Factory setting is set to ‘ON’ and jumper is set to the ‘Right’.
- To turn ‘OFF’ pre-flush, set the jumper to the ‘Left’.

## FULL FLUSH TIME

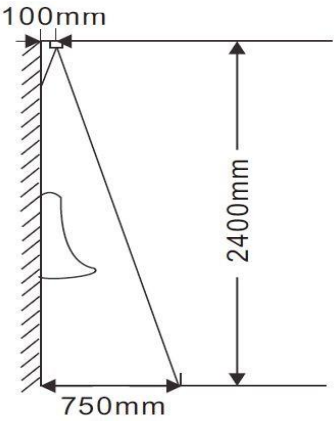
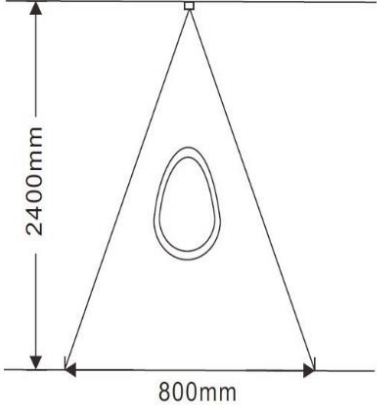
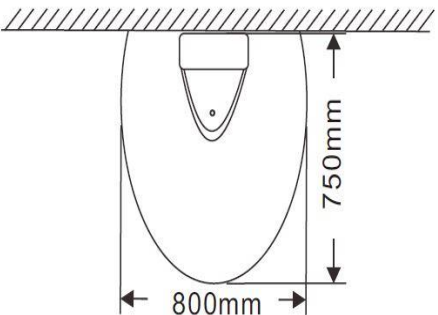
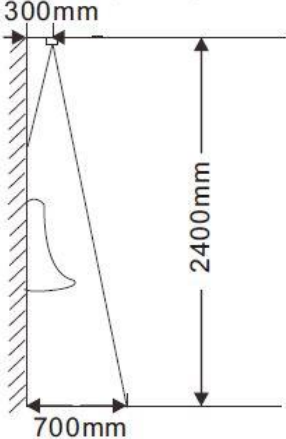
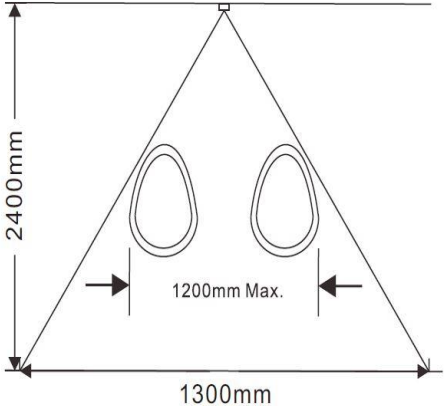
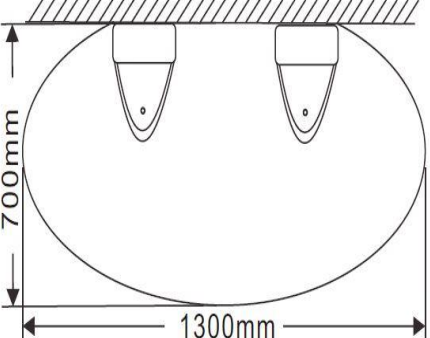
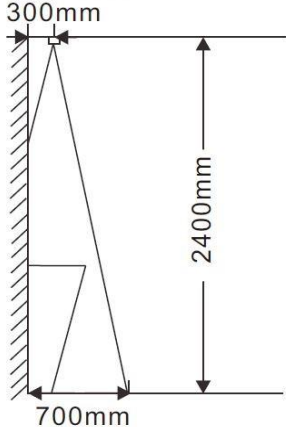
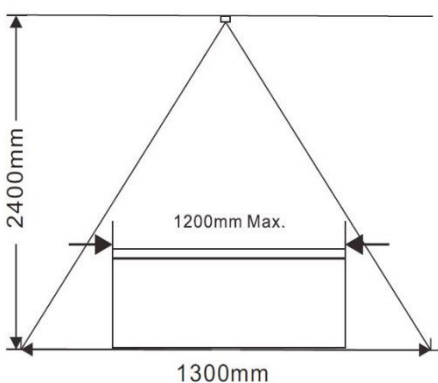
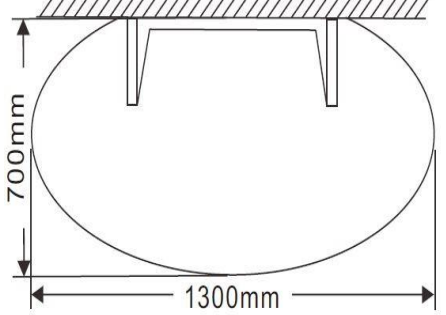
- Set the jumper to the ‘Left’ to choose 11-20s (20s=0s).
- Set the jumper to the ‘Right’ to choose 1-10s (10s=0s).
- Set the coding wheel to the required flush time – see table on next page for full details of flush volumes, and time setting options for different urinal types.

# FLUSH VOLUME SETTINGS

Time settings for flush volumes <b>without</b> 'pre-flush'			
Urinal Type	Dynamic Pressure	Time Setting	Flush Volume
Single Urinal	350 kPa	6s	0.8L
	500 kPa	5s	
Twin Urinal	350 kPa	12s	1.6L
	450 kPa	11s	
	500 kPa	10s (10=0)	
Slab/Trough Urinal	350 kPa	19s	2.4L
	400 kPa	17s	
	450 kPa	16s	
	500 kPa	15s	
Time settings for flush volumes <b>with</b> 'pre-flush'			
Urinal Type	Dynamic Pressure	Time Setting	Flush Volume
Single Urinal	350 kPa	4s	0.8L
	500 kPa	3s	
Twin Urinal	350 kPa	8s	1.6L
	450 kPa	7s	
	550 kPa	6s	
Slab/Trough Urinal	350 kPa	12s	2.4L
	400 kPa	11s	
	500 kPa	10s (10=0)	

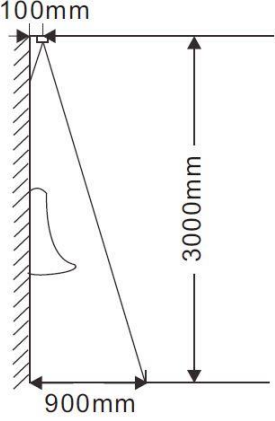
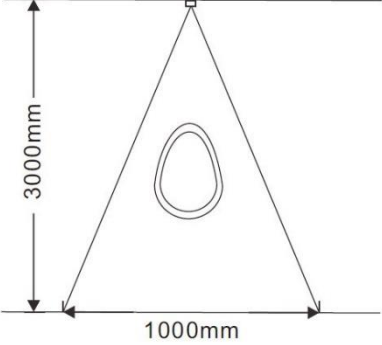
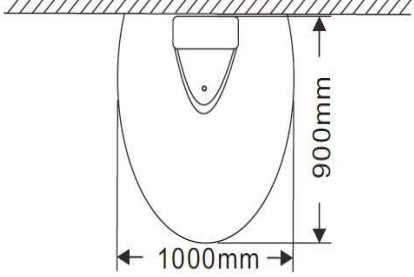
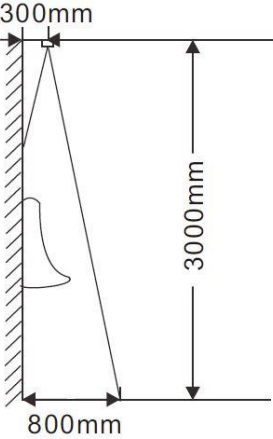
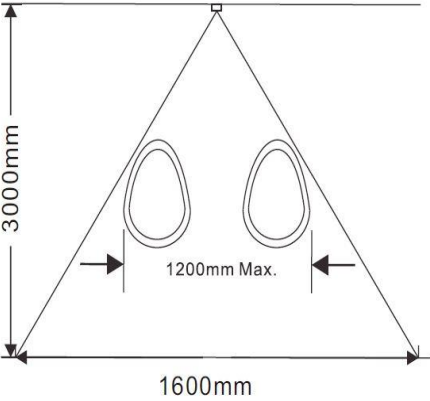
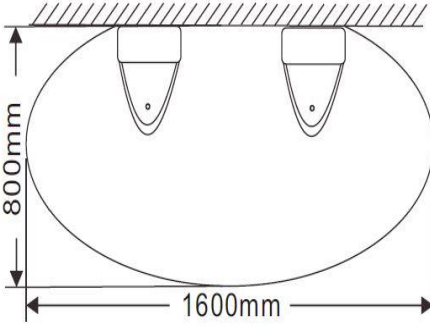
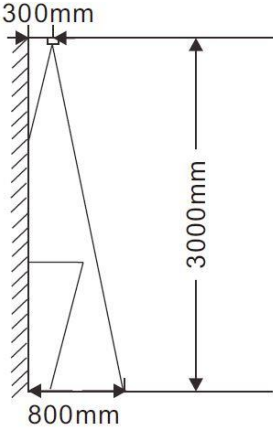
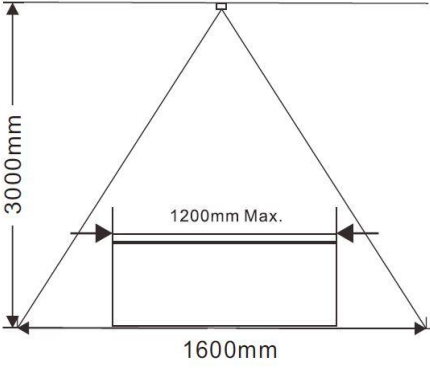
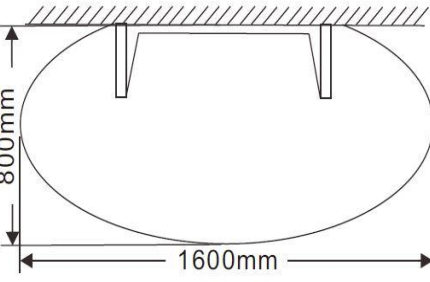
# DETECTION ZONE (GUIDE ONLY)

## 2.4 M Height Installation

<b>Single Urinal</b>		
Side View	Front View	Top View
		
<b>Twin Urinals</b>		
Side View	Front View	Top View
		
<b>Slab Urinal</b>		
Side View	Front View	Top View
		

# DETECTION ZONE (GUIDE ONLY)

## 3 M Height Installation

<b>Single Urinal</b>		
Side View	Front View	Top View
		
<b>Twin Urinals</b>		
Side View	Front View	Top View
		
<b>Slab Urinal</b>		
Side View	Front View	Top View
		

# TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
No water out or will not stop running	<u>Most common:</u> Plugs not connected correctly. No water supply or No Power.  Blocked filter or solenoid	<ul style="list-style-type: none"> <li>• Check water and power supply.</li> <li>• Unplug all cables, leave unplugged for 5 minutes, then reconnect everything carefully.</li> </ul> Clean filter. Clean/replace solenoid.
Too little water flow	Water pressure is low or turned down.  Flow Valve needs adjusting. The filter or solenoid is blocked.	Adjust/raise the water pressure.  Adjust flow valve on solenoid Clean the filter. Clean/replace the solenoid
Too much water flow	Water pressure is too high. Flow valve needs adjusting.	Adjust/lower the water pressure. Adjust flow valve on solenoid.
Flush time or sensing distance is not adequate	Sensor requires adjustment.	See the 'Settings' section of this manual for instructions.

For detailed troubleshooting advice, see the Troubleshooting page of our websites [enviro-tech.com.au](http://enviro-tech.com.au) or [enviro-tech.co.nz](http://enviro-tech.co.nz) or call us on the numbers below.



## WARRANTY

This Enviro-Tech product is guaranteed for 12 months from the date of purchase. This is a parts only warranty and Enviro-Tech is not liable for any associated costs incurred in the replacement or repair of any item. For full details of the warranty conditions, see the Warranty page of our websites.

## AFTERCARE

Ensure good water quality is maintained and the filter on the solenoid valve is cleaned out regularly. Failure to do so could result in blocked solenoid/impair product functionality and may invalidate your product warranty. Surfaces should be maintained using a clean damp cloth, no abrasive agents or materials should be used or come into contact with the surface finish, or this will invalidate your warranty.

This Enviro-Tech product is manufactured strictly to adhere to the ISO9001 standard, WaterMark certification and WELS standards. Enviro-tech reserves the right to update product technology at any time.

## CONTACT INFO:

Australia – 1300 530 883 or [info@enviro-tech.com.au](mailto:info@enviro-tech.com.au)

New Zealand – 0800 2 ENVIRO or [info@enviro-tech.co.nz](mailto:info@enviro-tech.co.nz)