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Enviro-Tech ET3-R Urinal Flush Valve



Product Using Instructions

- **Attention:** Hold the plug not the wire to connect and disconnect and make sure the pins align to the holes in the right position.
- **Note:** Ceiling must be level. If ceiling is sloping/pitched, the detection zone will be altered.
- Follow the steps provided in the manual to install the sensor properly.
- Detailed instructions on how to connect the cables for Solenoid Valve, Sensor, and Transformer are provided in the manual.
- The manual includes information on adjusting settings like distance sensitivity, flush time, pre-flush settings, and more.

INSTALLATION INSTRUCTIONS ET-3R URINAL FLUSH VALVE

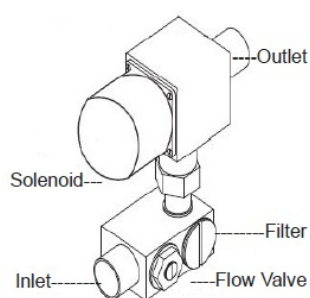
- We strongly recommend that you use a qualified and registered plumber and electrician.
- You must ensure that all pipe work is flushed adequately, particularly in new builds or where lines have been disrupted.
- Components of sensor products are particularly susceptible to debris and will require more thorough flushing than a standard plumbing fixture.
- **IMPORTANT:** Flush pipe must be DN20 copper pipe or equivalent. Installation must be in accordance with AS/NZS3500.
- Please note that – incorrect installation is NOT covered by your warranty

TECHNICAL SPECIFICATIONS

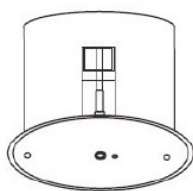
Function	ET3-R
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Power Input	AC:220-240V 50/60Hz)
Power Consumption	900mA
Water Pressure	100kPa-500kPa (recommended 350kPa)
Inlet/Outlet Diameter	15mm 1/2G
Detection Zone	1600x1000mm (adjustable)
Inductive Confirmation Time	6 times within 5 seconds
Confirmation 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

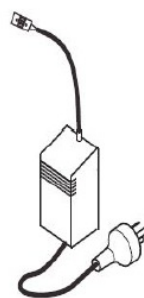
COMPONENTS



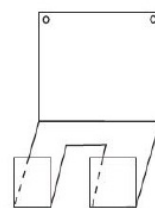
1. Solenoid Valve



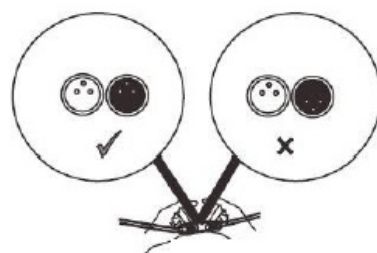
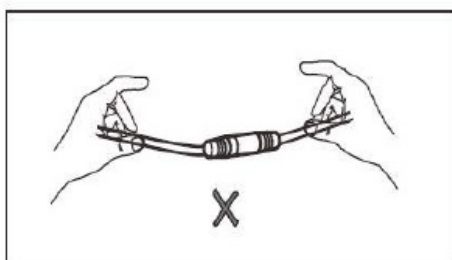
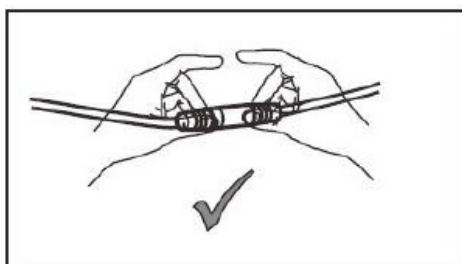
2. Sensor



3. Transformer



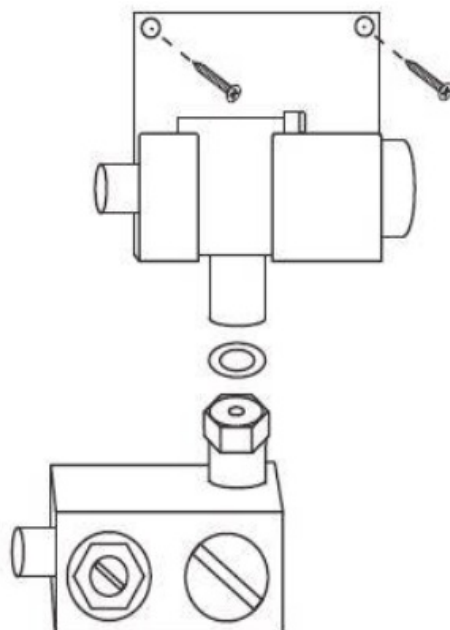
4. Bracket



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

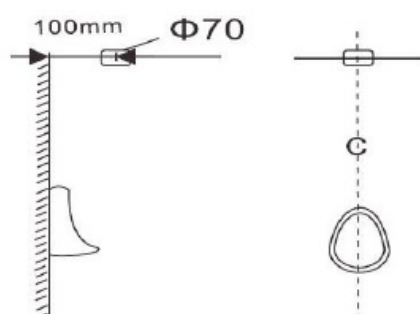
- Flush Pipework thoroughly – failure to do so will result in solenoid sticking soon after install, which is NOT covered by your product warranty.
- Attach bracket, then insert solenoid valve.
- Connect water feed to inlet valve.
- Connect outlet to urinal.

SENSOR INSTALLATION

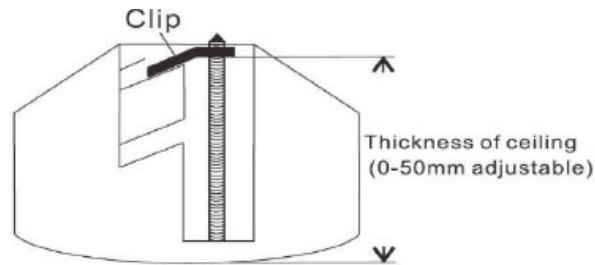
Note: Ceiling must be level. If ceiling is sloping/pitched the detection zone will be altered.

For Single Urinals

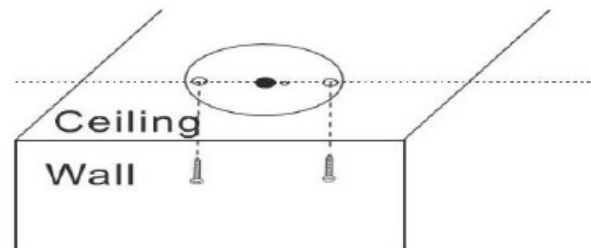
1. Drill a 70mm hole in the ceiling centred on the urinal and 100mm from the wall/back of urinal to the centre of the sensor.



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)

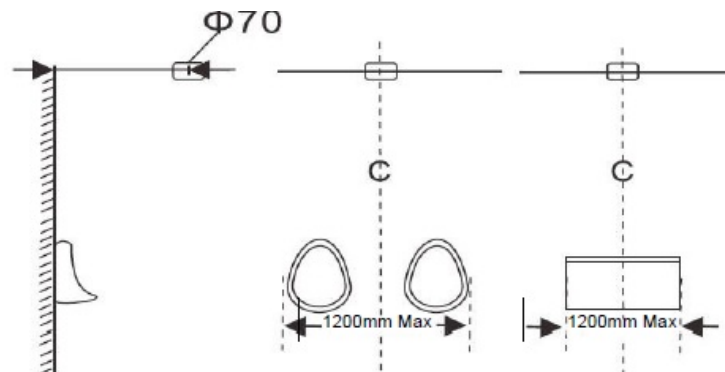


3. First make any changes required to flush time or pre-flush settings. Then refix the sensor plate using the 2 screws. Ensure sensor plate screws are parallel to wall for a single urinal.

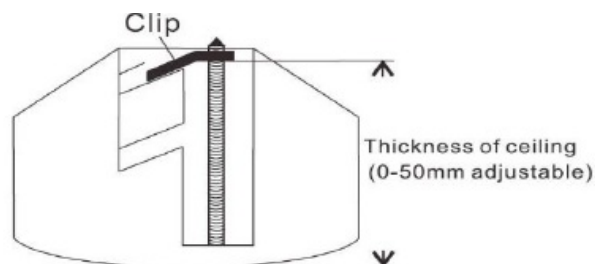


For Twin or Trough Urinals

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.

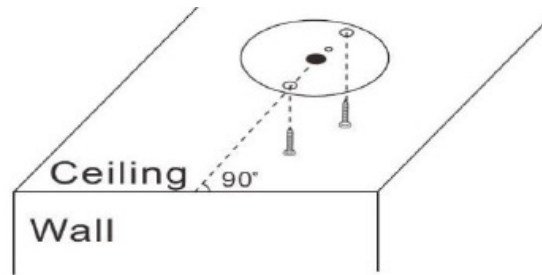


2. Remove the screws from the sensor plate and install the flush box into the ceiling using the screw clips. (Ensure the screw holes are aligned as shown in 3)



3. First make any changes required to flush time or pre-flush settings. Then refix the sensor plate using the 2 screws. Ensure sensor plate screws are aligned facing the

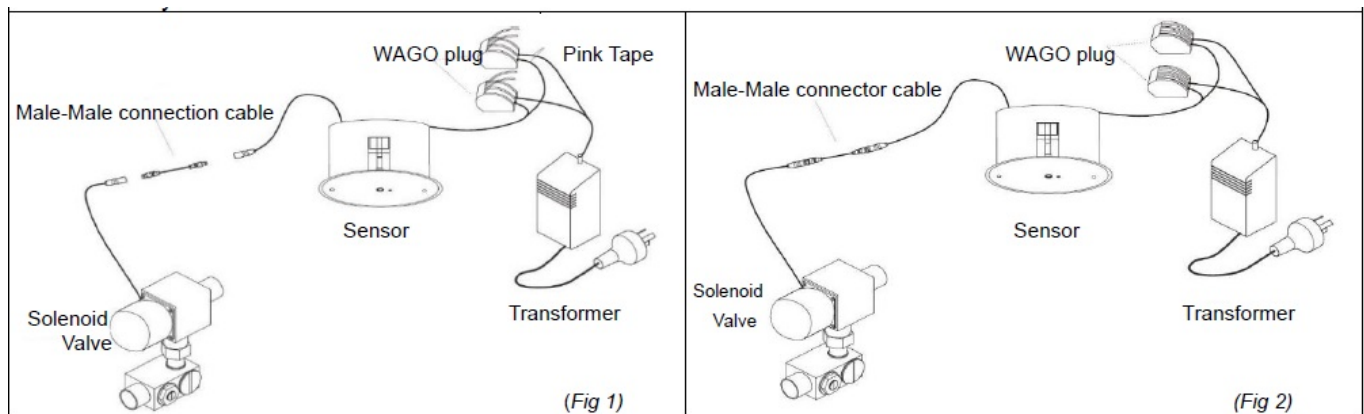
wall for twin or trough urinals.



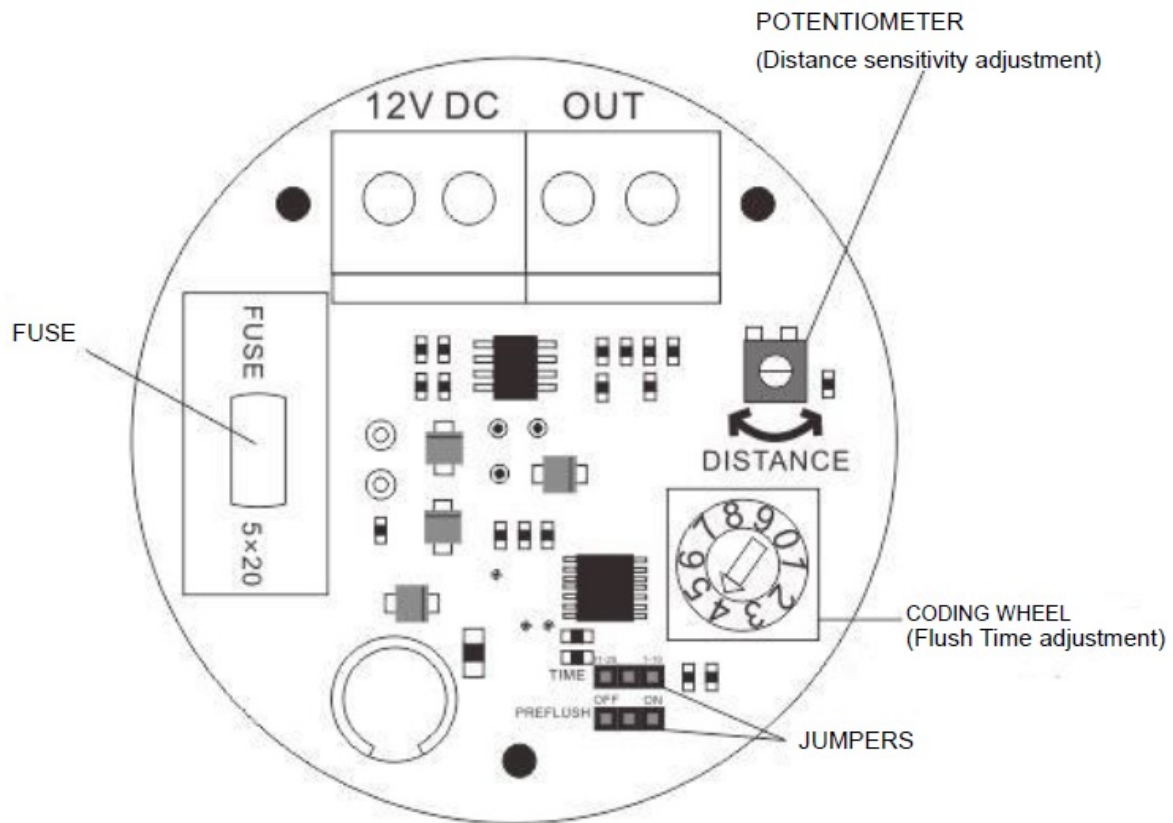
CABLE CONNECTIONS

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 <u>without</u> ‘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 <u>with</u> ‘pre-flush’			
Urinal Type	Dynamic Pressure	Time Setting	Flush Volume
Single Urinal	350 kPa	4s	0.8L
	500 kPa	3s	
	350 kPa	8s	

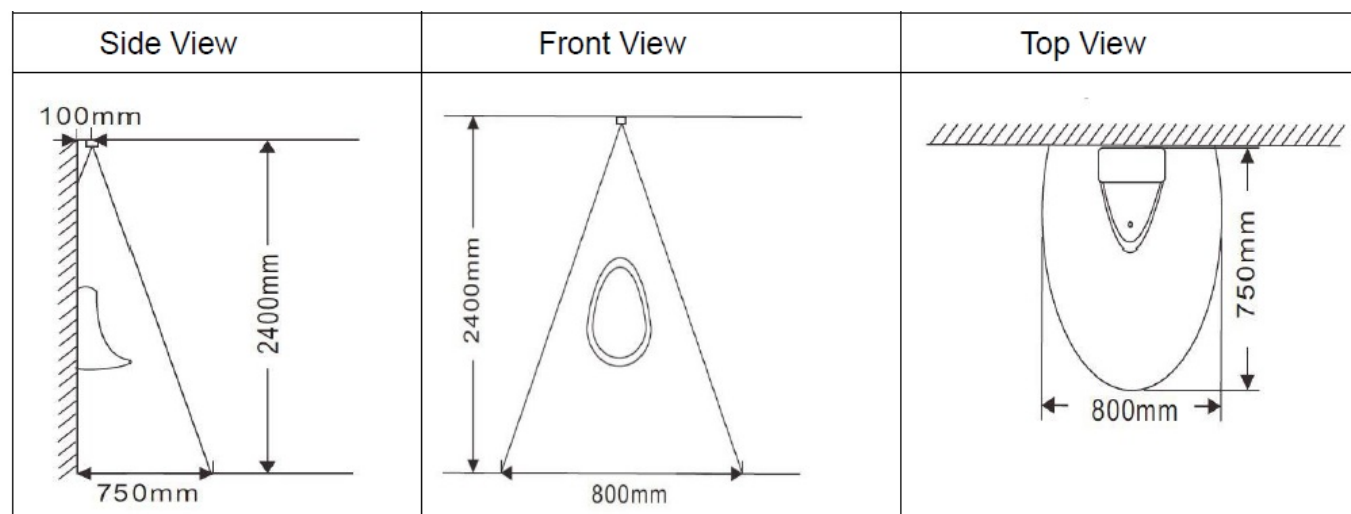
Twin Urinal	450 kPa	7s	1.6L
	550 kPa	6s	
Slab/Trough Urinal	350 kPa	12s	2.4L
	400 kPa	11s	
	500 kPa	10s (10=0)	

DETECTION ZONE

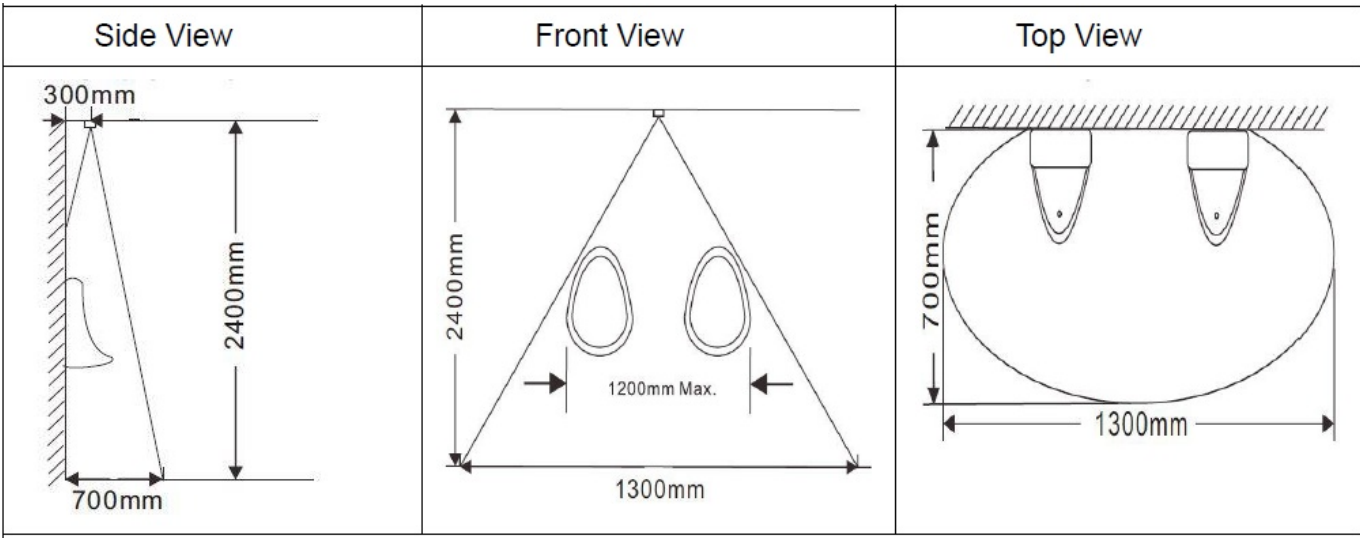
DETECTION ZONE (GUIDE ONLY)

2.4 M Height Installation

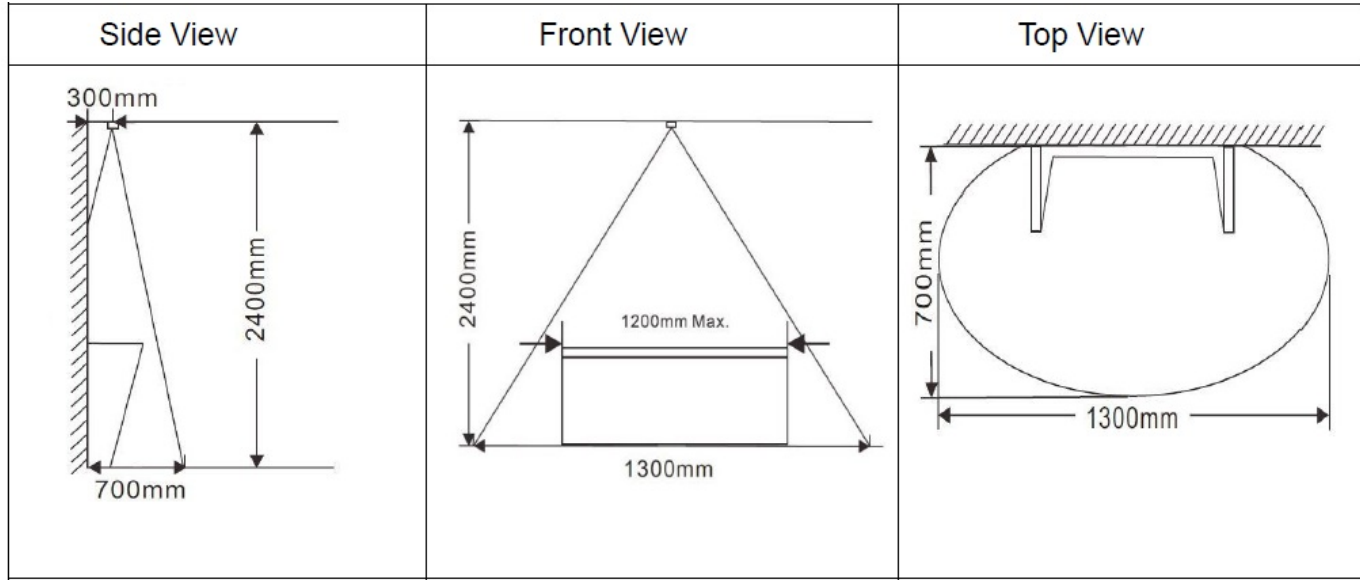
Single Urinal



Twin Urinals



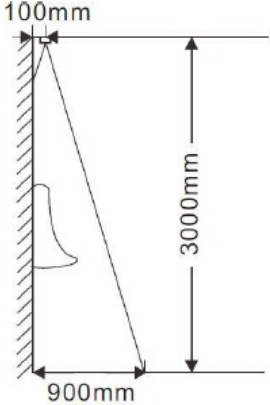
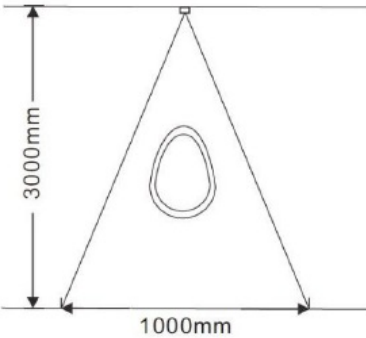
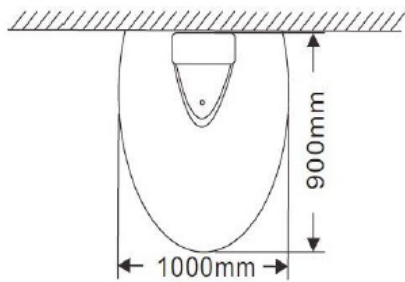
Slab Urinal



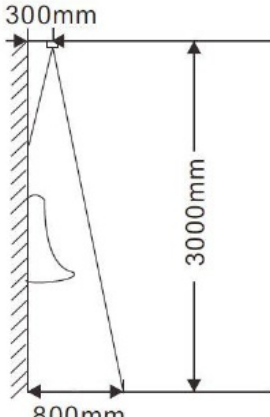
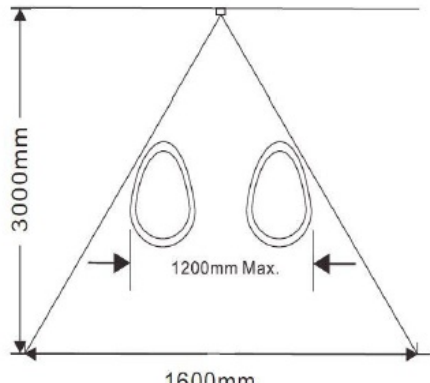
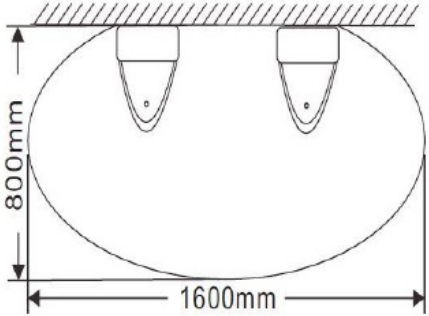
DETECTION ZONE (GUIDE ONLY)

3 M Height Installation

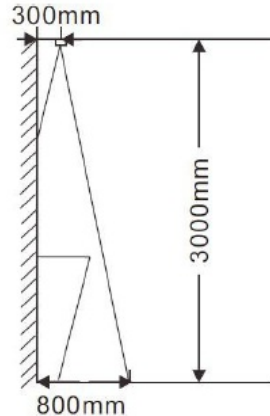
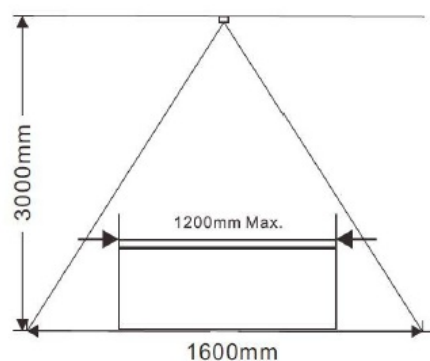
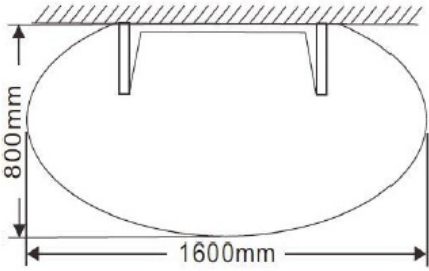
Single Urinal

Side View	Front View	Top View
		

Twin Urinals

Side View	Front View	Top View
		

Slab Urinal

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.	<ul style="list-style-type: none"> Check water and power supply. Unplug all cables, leave unplugged for 5 minutes, then reconnect everything carefully.
	Blocked filter or solenoid	Clean filter. Clean/replace solenoid.
Too little water flow	Water pressure is low or turned down.	Adjust/raise the water pressure.
	Flow Valve needs adjusting.	Adjust flow valve on solenoid
	The filter or solenoid is blocked.	Clean the filter. Clean/replace the solenoid
Too much water flow	Water pressure is too high.	Adjust/lower the water pressure.
	Flow valve needs adjusting.	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 or 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

- Australia – 1300 530 883 or info@enviro-tech.com.au
- New Zealand – 0800 2 ENVIRO or info@enviro-tech.co.nz

FAQ

Q: How do I adjust the sensing distance of the sensor?


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

Q: What are the factory settings for flush time?

A: The manual provides detailed information on factory settings, including pre-flush

options, flush volumes, and time setting options for different types of urinals.

Documents / Resources

	Enviro-Tech ET3-R Urinal Flush Valve [pdf] Installation Guide ET3-R Urinal Flush Valve, ET3-R, Urinal Flush Valve, Flush Valve, Valve
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References

- [User Manual](#)

Enviro-Tech , ET3-R, ET3-R Urinal Flush Valve, Flush Valve, Urinal Flush Valve, Valve

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