

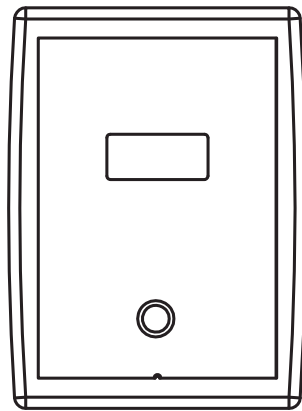


# hands free hygiene

clean hands, safe hands

## INSTALLATION INSTRUCTIONS

### ET4-7 INFRARED WC FLUSH VALVE



# INSTALLATION INSTRUCTIONS WC FLUSH VALVE

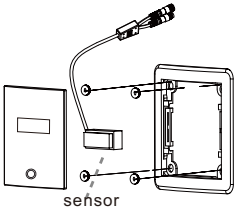
Flow rates and pipework design are critical for effective operation of this product and must be completed by a suitably qualified professional. Components of sensor products are particularly susceptible to poor water quality and debris, lines will require a more thorough flushing than for a standard plumbing fixture.

## TECHNICAL SPECIFICATION

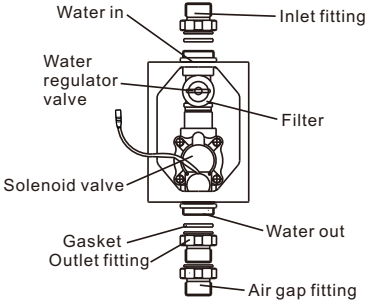
This ET4-7 WC flush valve is supplied as a 3 or 4 Star WELS rated product. Flush volume information for each valve is given in the table below. If necessary, flow can be adjusted with flow valve adjuster screw on solenoid.

Function	ET4-7
Power input	DC:6V (4x1.5V AA alkaline battery) AC:220-240V (50/60 Hz)
Power consumption	Static: <4Ma, active: <500mA
Water pressure	350kPa-500kPa (recommended 350-400kPa)
Flow rate	90L/min
Inlet/outlet diameter	25mm G1'
Detection zone	750mm-800mm adjustable
Confirmation time	5 seconds
Low power consumption	4 AA alkaline batteries 108,000 cycles
Preset Flush Volume (3 Star WELS)	3.0ltr 1/2 flush and 6.0ltr full flush
Preset Flush Volume (4 Star WELS)	2.8ltr 1/2 flush and 4.5ltr full flush
Flush Activation Type	User present less than 90 seconds - half flush User present more than 90 seconds - full flush
Trap seal protection	Automatic flush every 24hrs if not used

## COMPONENTS



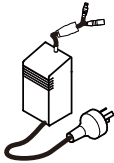
1. sensor and face plate



2. solenoid valve and valve box



3. battery box



4. transformer

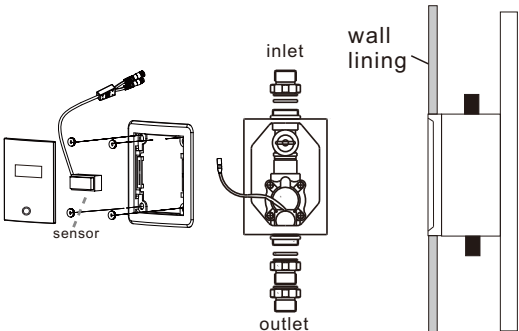
## INSTALLATION

**IMPORTANT:** Correct water pressure is crucial to achieve effective flush and to protect internal components of valve from damage. The flush valves are preset at the factory using a 350-400kPa dynamic flushing pressure. This is the optimum pressure for successful activation and is recommended for install. A water pressure in excess of 500kPa will cause damage to the diaphragm and is not covered by warranty.

- >Fix WC flush box within wall - only faceplate and surround visible after install.
- >Connect water feed to inlet valve.
- >Connect outlet to air gap fitting.
- >Connect flush pipe from air gap fitting to WC pan.
- >Connect power in correct order - See Cable Connection Section.

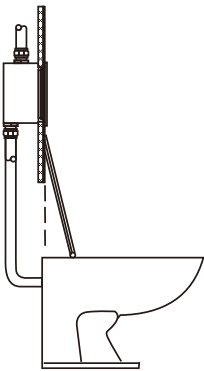
## VALVE BOX INSTALLATION

Fix control box within wall, can be side or rear fixed.  
Attach face plate to control box.



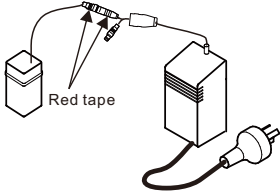
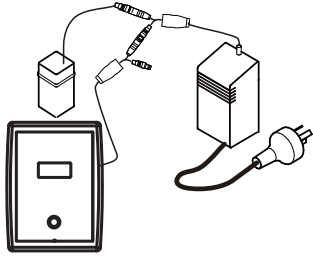
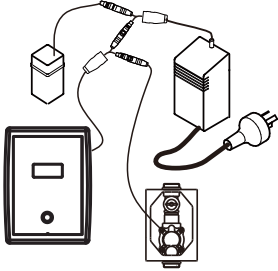
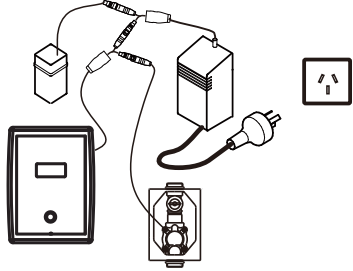
## FRONT VIEW

## SIDE VIEW



# CABLE CONNECTION

**WARNING:** If parts are connected incorrectly electronics can be damaged!

<p>1. Insert batteries to DC battery box and connect battery box to transformer. (If mains powered)</p> 	<p>2. Connect transformer (battery box if DC only) to face plate.</p> 
<p>3. Connect solenoid valve to face plate plug.</p> 	<p>4. Connect transformer to power. <b>Confirm there is power at the socket.</b></p> 

## PRODUCT FUNCTIONALITY

When User enters the detection zone, unit will initialise and activate flush cycle depending on length of time User is present within sensor field:

- If less than 90 seconds - half flush activated
- If more than 90 seconds - full flush activated

After Activation:

A confirmation time of 5 seconds applies. Unit will not flush again immediately to allow time for user to exit the area. Unit will re-initialise once a new User is detected.

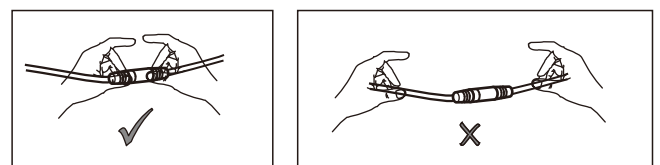
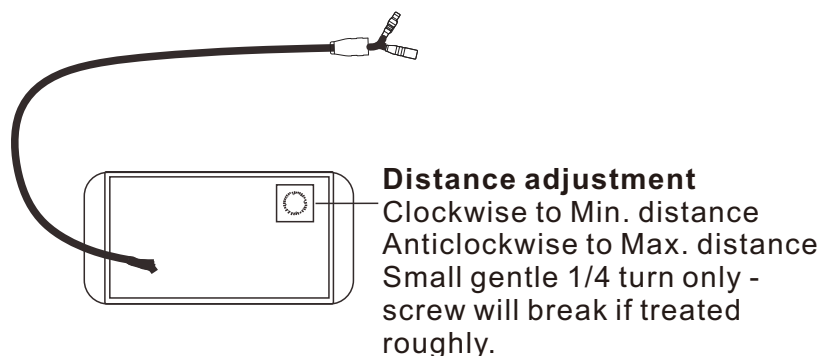
Manual Override:

Unit is fully automatic (not a swipe flush) so if User moves out of the activation zone whilst still using the toilet, the flush cycle will be activated. If manual override is selected, this allows User to flush on demand, enhancing user comfort.

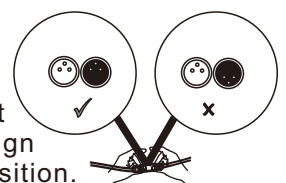
## SETTINGS AND SENSOR ADJUSTMENT

Sensor detection zone is pre-set at 750-800mm. If this is not suitable for your setting, the sensor distance can be adjusted using the small grub screw on the rear of the sensor.

**IMPORTANT:** Adjustment should only be made using a small cross head screwdriver and gentle 1/4 turns. Excessive force will cause the sensor grub screw to snap and is not covered by warranty.



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



# TROUBLE SHOOTING

Problem	Possible Cause	Solution
No water out or water will not stop running	<u>Most common:</u> Plugs not connected correctly/No water supply/ No power  Sensor obstructed/dirty	<ul style="list-style-type: none"><li>• Check water and power supply, change batteries.</li><li>• Unplug <u>all</u> cables, leave unplugged for 5 minutes and reconnect everything carefully in the correct order - see Cable Connection diagrams.</li></ul> Clean sensor
Too little/too much water flow	Water Pressure incorrect   The Filter or solenoid is dirty	<ul style="list-style-type: none"><li>• Ensure pipework and valve installation is correct.</li><li>• Ensure dynamic flushing water pressure is between 350-500kPa.</li><li>• Adjust water flow on water regulator valve above solenoid (See Components diagrams)</li></ul> Clean or replace the filter/solenoid.
Indicator light is off/flashing	No power – batteries are flat Bad connection	Replace batteries Check connections
Sensor is not activating correctly	Sensor distance may require adjustment	See Sensor Adjustment Diagram. Care is required, small gentle ¼ turn only and retest advised. <b>Adjustment screw can break if mistreated and may not be covered by your product warranty.</b>
WC is self-activating	All infra-red technology can be affected by strong or directional light, reflective surfaces or high-viz clothing. This is due to environmental factors and is not a product fault.	

## Hands Free Hygiene

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## 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 a blocked solenoid/impair product functionality and may invalidate your product warranty. Whilst advanced plating techniques are used in the manufacture of this product, the surface will be affected if cleaned incorrectly. 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.