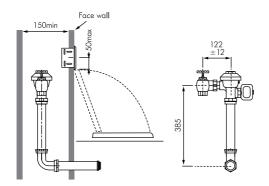


INSTALLATION INSTRUCTION SUPPLEMENT SHEET MODELS ZEM-6152L-40 ZEM-6152XL



1.0 **DESCRIPTION**

The Zurn electronic flushing valves are variations of the "standard" valves with the only difference being the method of activation.

Rather than mechanical or hydraulic activation, these valves use an infrared sensor to detect a persons presence and then initiate a flush after the person leaves the sensors range. The user must remain within range for the sensor to recognise that a "use" has occured, only then can a flush cycle commence. The installer must set the range of the sensor so that the flush will occur only once the user leaves the cubicle.

In all other respects the installation of the valve is identical to the standard valve. This document therefore serves as an addendum to the products installation instructions which are also enclosed.

2.0 VALVE INSTALLATION

Install the valve in the wall cavity as per the standard instructions enclosed.

The valve is supplied with a motorised actuator which is mounted on the side of the Zurn valve as shown. The motorised actuator must be mounted so the drain holes are positioned at the bottom, rotate actuator to suit.

3.0 SENSOR INSTALLATION

All items supplied are low voltage and connections can be made by the installing plumber.

Where a Z-EMS or Z-EMSS panel has been ordered, the Zurn sensor is mounted on the back of a stainless steel plate which is fixed to an electrical flush box ref Clipsal 164/2.

The box should be mounted **approximately** 450mm above the toilet seat, however, **CHECK** that the box and sensor will clear any seat/lid by no more than 50mm when raised to ensure correct sensor activation.

Where the flush valve is installed in a non accessable duct, a ZA-EMS or ZA-EMSS access panel should be installed.

This panel serves as access to the flush valve for servicing and positioning of the panel will therefore be critical to ensure

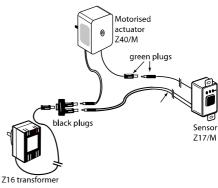
a) full access to the valve, and

b) the sensor cannot be obstructed by the toilet seat/lid

The plug pack transformer is terminated with an RCA socket to which the black plugs on the sensor and motorised actuator will connect.

The sensor also has a lead with a green plug which connects to the motorised actuator.

Power should not be switched ON until all plumbing connections have been completed and the Zurn valve thoroughly flushed to remove any possible debris.



3.0 SENSOR INSTALLATION (CONT)

All items supplied are low voltage and connections can be made by the installing plumber.

The Zurn sensor gives the installer options on how the toilet will be flushed. These include:



a) RESET - Used when the switches have been changed to enable a new cycle to commence



b) SWITCH OPTIONS

- 1. Automatic flush 8 hours after last user
- 2. Red/Green LED lights to show operation
- 3. "PRE" flush to give flush when person is first detected as well as after the person moves away from the fixture



 c) Range increase/decrease. Set at approximately 1m and should be adjusted to ensure detection limit is at toilet door.
 NOTE: Sensor range varies depending on clothing being worn - black clothing with reduce range. Highly reflective clothing such as safety vests may cause spontaneous triggering

To access these switches remove the sensor from behind the stainless steel plate (or access panel), and pull back the rubber cover.

ALWAYS press the re-set button after option button/switches have been changed

NEVER overtighten nuts holding sensor to face plate

DO NOT install sensor in situations where reflections from mirrors and/ or stainless steel doors, walls etc are likely to cause reflections. Although the sensor has a range of approximately 1m this may increase to more than 3m where highly reflective surfaces are directly in front.

4.0 COMMISSIONING

- a) With the stop valve turned OFF, turn the power to the sensor ON. If the LED indicator lights switch option is set to "ON" (see section 3.0 b) 2) your presence should be detected when your hand is placed in front of the sensor. RED light shows presence within range, GREEN light will illuminate when person has moved away from the sensor having been detected for more than 8 seconds. The motorised actuator should activate at this point.
- b) Repeat, but open the stop valve on the Zurn flush valve slightly to allow a small amount of water through.
- c) Repeat as per b) increasing the volume a litte each time, until an even flush is acheived. It may be necessary to repeat flush a few times in order to clear the lines of any air.

5.0 **Z-EMSS**

This is a variation to the standard EMS sensor valve which includes an activation button on the sensor plate.

Pressing the button will initiate an immediate flush which can serve as a courtesy flush (pre-flush). This does not stop the sensor from activating a flush after the user has left the cubicle.



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