

## Supaflush

### Urinal Water Saver Installation Instructions and User Guide



#### Features:

- Rust Free Sensor Housing
- Normal Operation Indicator
- Low Battery Indicator
- Long Life Enclosed Unit – Reduces Moisture & Dust Exposure
- Simple & User Friendly
- 9 volt Power Supply - Large Capacity Battery
- Installation Kit
- 2 year Warranty

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### **Supaflush Water Saver – Supakwik Water Heaters**

Package includes:

- Installation Instructions & User Guide
- Sensor Assembly
- Battery Pack or Mains Power Supply
- Solenoid Valve
- Sensor to Solenoid Valve Cable



## IMPORTANT

These water saving devices must be installed by suitably qualified persons in compliance with AS3500.2 Warranty will be void if Installation Instructions are not followed.

### **General Description**

An automatic urinal flushing system, available in a ceiling or wall mounted configuration. Designed for indoor use only.

The sensor is triggered when motion is detected, starting a countdown timer (delay). When the timer ends, the solenoid valve opens for a customisable amount of time (flush time). One sensor can only operate one solenoid valve.

Available in battery or mains power configurations. The system consists of a sensing unit operating a 9 volt solenoid valve. A visible LED indicates sensing, countdown to flush (delay) and battery condition. Pre-flush, flush delay, flush duration and sanitary flush options are selectable.

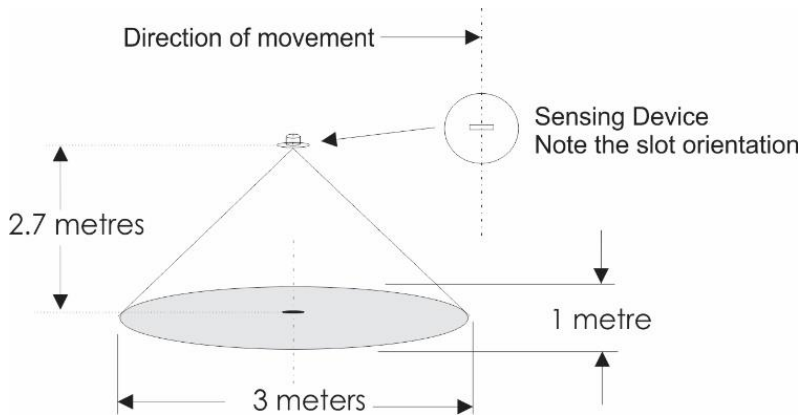
This User/Installation Guide applies to both ceiling and wall mounted systems. As the wall mounted system can have many unique install configurations, this guide will concentrate on the installation for the ceiling model only.

### **Installation**

#### **Location**

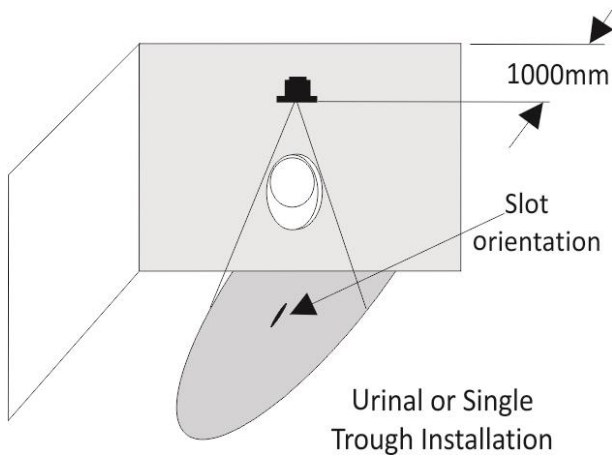
You will need to determine the quantity and location of the urinals or troughs that will be serviced by the sensor.

The area that the sensor can cover is approximately 3 metres x 1 metre, see **Figure 1**.

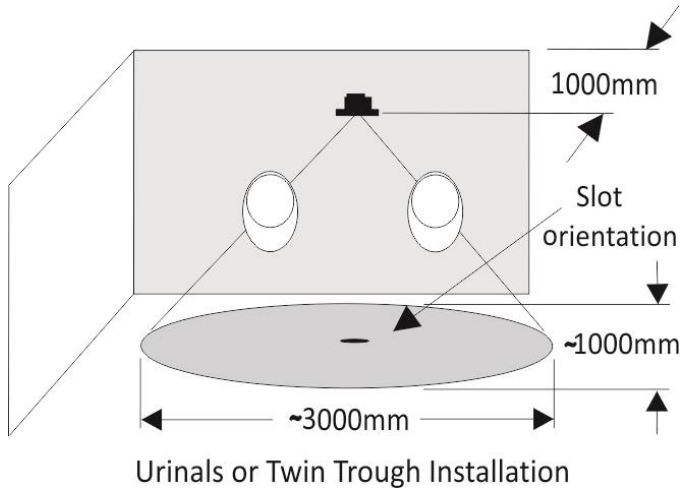


**Figure 1**

The Sensor should be positioned approximately 1 meter away from the centre point of the urinal or trough installations with the slot in the sensor housing at 90 degrees to approaching traffic where possible, see **Figure 2 and 3**.



**Figure 2**



**Figure 3**

**Mounting**



**IMPORTANT**

On deciding the sensor position, before cutting the 100mm hole in the ceiling be sure to check for possible electrical or plumbing services or any other obstruction above the ceiling.

Cut a 100mm hole in the ceiling. This will accommodate the sensor housing. The sensor housing is inserted in the same manner as a standard down light fitting.

**Plumbing**



**IMPORTANT**

The water supply must be between 100kPa – 700kPa.

Turn off the water supply and fit the isolating valve and solenoid valve. Be sure to note the flow direction of the valves, if installed back to front they

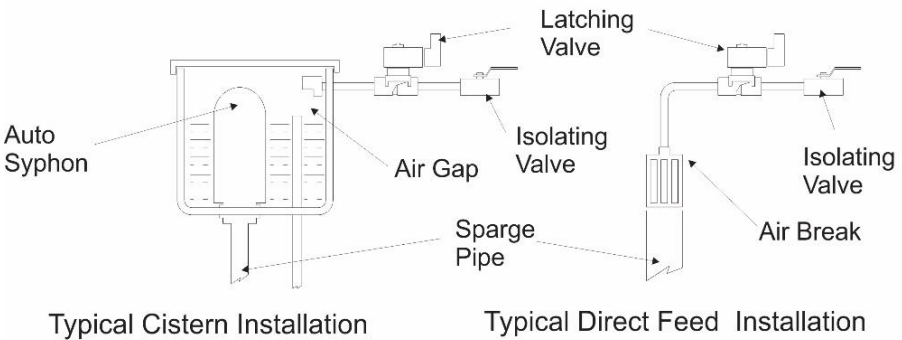
will not operate. The solenoid valve can be mounted up-side down if required.

The solenoid valve must be installed no more than 2 metres away from the sensor unit, the cable supplied that connects the solenoid valve to the sensor unit is only 2 metres long.

The solenoid valve must be installed after the isolating valve, if a strainer is fitted it must be before the solenoid valve.

There must be an air gap of at least 25mm between the water supply and the sparge pipe or cistern maximum fill level/overflow pipe, this is to stop backflow from occurring.

To achieve this an air break must be installed vertically in a direct feed installation. For an installation where a cistern is used, the water supply inlet must be installed at least 25mm above the overflow pipe of the cistern, see **Figure 4**.



**Figure 4**



## IMPORTANT

Ensure the valves are mounted in a position that is easily accessible for servicing. Care must be taken to ensure that no sealing tape enters the water supply ways as this will result in solenoid valve failure.

### **Connecting the valve to the sensor assembly**

Using the cable supplied, the sensor must be connected to the solenoid valve. This cable is 2 meters long. If a longer cable is required, contact the manufacturer on the details supplied on the back of this manual.

NOTE: Warranty will be void if this cable is altered. Consult the manufacturer if the cable needs to be altered.

### **Connecting the battery**

The default settings of the Supaflush is a 2 second pre flush, 1 minute delay, 10 second flush with a 24 hour sanitary flush. If these settings do not require altering, the battery can be connected.

Remove the battery cover at the rear. Remove the battery from its location and connect. Replace the battery and cover.

NOTE: Warranty will be void if the battery cover is not replaced. This cover prevents moisture and dust from entering the system.

### **Testing the system**

A LED is visible through the face of the sensor housing. This LED has the ability to flash Green & Red. The colours and flashing sequence indicates the system state and battery condition.

### **Standby / Battery Condition**

During standby mode i.e. when the system has not detected movement the LED will flash Green once every 10 seconds. When the battery needs replacement the LED will flash Red continuously. The battery must be replaced or the unit will not operate.

### **Motion Detection**

When the system is triggered by detecting motion the green LED will flash once every 2 seconds. This sequence will continue until the delay countdown expires and the flush begins.

If pre-flush is on a 2 second flush will occur upon motion detection.

### **Pre Flush**

If pre flush is selected on, the solenoid valve will open for 2 seconds immediately upon motion detection.

### **Flush Delay**

Flush delay is the countdown until it flushes (valve opening) after motion has been detected, the LED will flash green once every 2 seconds for the duration of time selected on the dip switch setting.

### **Flush Duration**

Flush duration is the time that the solenoid valve will remain open for once the delay time has ended. On completion of flush duration the LED will flash green for 1 minute (during this time sensing is disabled) before re-entering standby mode. This is to prevent the sensor from being triggered by the water that has been flushed.

### **Configuring the Supaflush settings**

To alter these settings, remove the battery cover and battery to expose the dip switches, see **Figure 5**.



## **Pre Flush Dip Switch**

Available options - On or off, see **Figure 5**.

## **Sanitary Flush**

Five options are available – Off, 6, 12, 18 & 24 hours, see **Figure 5**.

## **Flush Duration**

Customizable between 3 seconds - 5 minutes. The sensor must have power to modify the flush duration setting.

To set the duration of the flush time hold down the flush duration button for 3 seconds, the LED will start flashing green rapidly. Release the button to open the solenoid valve and begin the timer, the LED will flash red.

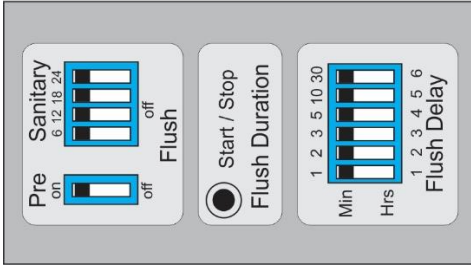
To close the solenoid valve hold down the button again for 3 seconds, the LED will start flashing green rapidly. Release the button to close the solenoid valve and stop the timer. The time that the valve was open for will be stored as the Flush duration. Repeating this process will reset the previous setting. See **Figure 5**.

New settings will only take effect after the next flush cycle.

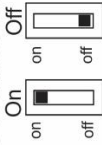
## **Flush Delay**

There are several different delay time options available – 1,2,3,5,10,30 minutes, or 1,2,3,4,5,6 hours. One time can only be selected, see **Figure 5**.

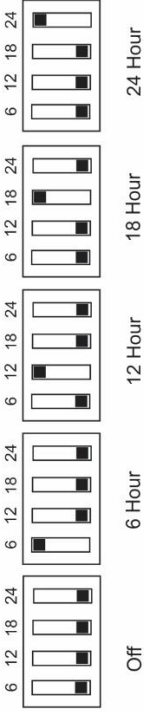
Note: After reconfiguring the Supaflush and reconnecting the power, wait approximately 30 seconds before checking detection and operation.



### Pre Flush Settings



### Sanitary Flush Settings

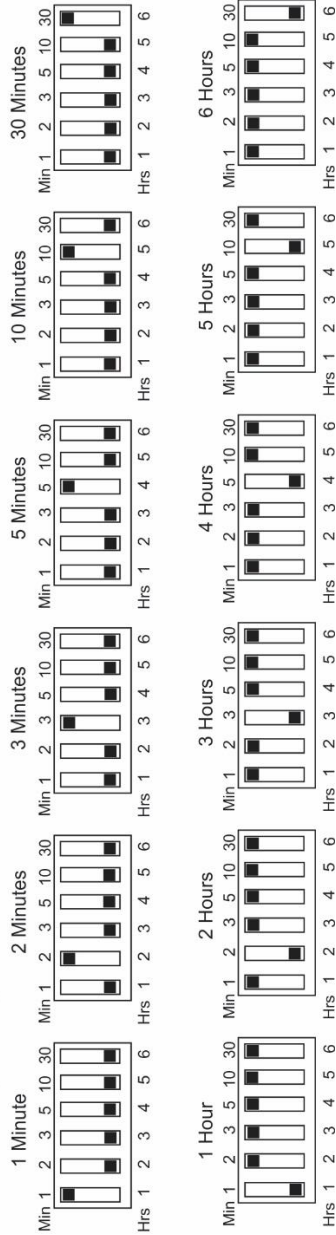


### Flush Duration Settings



**Hold the flush duration button down for 3 seconds then release to start the flush duration.  
Hold the flush duration button down for 3 seconds then release to stop the flush duration.**

### Flush Delay Settings



**Figure 5**

## Care and Cleaning

The sensor assembly must be kept clean and dry, the slot must always remain free from dirt or anything else that can hinder the product from operating correctly. Use a damp cloth only to wipe away any dirt from the product, cleaning products can damage the product.

## Battery



IMPORTANT

The 9 volt battery that we supply with this product has a much larger capacity when compared to a standard 9 volt battery. This is to ensure a longer battery life, if a standard 9 volt battery is used with this product the battery life will be significantly shorter.

The battery life will be determined by the amount of flushes that occur, on average the battery should last 1 year. It is recommended that the battery be replaced once every 6 months to ensure that the product continues to function without any issues.

When the batteries power is getting low the LED will flash red permanently, at this point the battery needs to be replaced or the product will be unable to open and close the valve.

## Maintenance

If a filter or valve is installed to prevent dirt from causing the solenoid valve to malfunction they must be serviced or replaced regularly to ensure the valve remains operating.

## Troubleshooting

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
	No power	Replace battery/check power supply
	Faulty sensor unit	Replace sensor unit
	Faulty solenoid valve	Replace solenoid valve
<b>Solenoid Valve not opening</b>	No water	Check that water supply is on
	Obstructed sensor	Clean sensor slot/remove obstruction
	Incorrect valve direction	Correct the valve direction of flow
	Water pressure	Make sure water supply is 100-700kPa
	Valve cable not connected	Connect valve cable to sensor
<b>Solenoid valve not closing</b>	No power	Replace battery/check power supply
	Faulty solenoid valve	Replace solenoid valve
	Flush time set too long	Set flush time shorter
<b>Red LED Flashing continuously</b>	Low power battery	Replace battery/check power supply
	Faulty sensor unit	Replace sensor unit
<b>Mode</b>	<b>LED Status</b>	
<b>Standby</b>	Green LED flashes once every 10 seconds	
<b>Delay countdown</b>	Green LED flashes once every 2 seconds	
<b>Sensor Inhibited</b>	Green LED flashes green once every 1 second	
<b>Fault/Low power</b>	Red LED flashing continuously	
<b>Flush duration button pressed down</b>	Green LED flashes rapidly	
<b>Valve open during flush time programming</b>	Red LED flashes rapidly	

If you need any assistance please do not hesitate to contact the team at Supakwik using the contact details on the back of this manual.

## **Spare Parts**

The spare parts below are available from Supakwik Water Heaters, contact us via the details on the back of this manual to order any parts you require.

The items below have the description followed by the part number in brackets.

9 Volt Solenoid Valve (**RP0081**)

Solenoid Valve Diaphragm Kit (**RP0083**)

9 Volt Battery Pack (**RP0082**)

9 Volt Transformer - Mains Power Supply (**RP0087**)

Sensor to Solenoid Valve Cable (**RP0088**)

Sensor Assembly – Ceiling Mounted (**RP0089**)

Sensor Assembly – Wall Mounted (**RP0090**)

## **Accessories**

Air Break ½" x 1" Chromed DR Brass (**AC1050**)

Air Break ½" x 1¼" Chromed DR Brass (**AC1060**)

Air Break ½" x 1½" Chromed DR Brass (**AC1070**)

# 1. Warranty, Terms, and Conditions

- 1.1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 1.2 Supakwik Water Heaters Pty. Ltd. guarantees your product against faulty manufacture or mechanical defect for the period as stipulated below:  
  
2 Years warranty – The first 12 months parts and labour, the following 12 months parts only.
- 1.3 Supakwik reserves the right to choose whether to:
  - a. Repair the product,
  - b. Replace the product or part with an equivalent, or
  - c. Refund the cost of the product.
- 1.4 After a product has been repaired or replaced under warranty, the product will still be under warranty for the remaining warranty period.
- 1.5 Filters are not covered under warranty as their lifespan is dictated by the quality and quantity of the water that passes through it.
- 1.6 The unit must be installed in accordance with the local water & electrical supply authority regulations, to be eligible for warranty.
- 1.7 The unit must be operated and maintained in line with “Care and Cleaning” instructions to be eligible for warranty.
- 1.8 The warranty claim must be made within the warranty period to be eligible.
- 1.9 The warranty period commences from the date of purchase.
- 1.10 If Supakwik is engaged to replace or repair a product under warranty, and there is no fault or the fault is found to be ineligible for a warranty claim, the claimant will be liable for all the costs involved, it will then be their choice whether or not to go ahead with repairs.
- 1.11 This warranty is not transferable and only applies to the original owner.
- 1.12 This warranty is only valid within Australia.

## **2. Warranty Exclusions:**

- 2.1 This warranty does not exclude, limit or modify any warranty condition obligation or liability which is or may be implied or imposed on the company by virtue of the Australian Consumer Law, or any other statute, rule, or regulation except for the extent to which the company is lawfully entitled to exclude limit or modify it.
- 2.2 Supakwik Water Heaters Pty Ltd is not liable:
- a. For the cost of removal, shipping, and or reinstallation of a product or part that needs to be repaired or returned to Supakwik Water Heaters.
  - b. For the cost of travelling to and from a location, to repair or replace a product or part.
  - c. For attempted repair or damage by unauthorised service people.
  - d. If malfunction or damage is caused to a part or product due to lime Scale, dissolved mineral build up, or sediment as a result of poor water quality.
  - e. If the water supply is non potable.
  - f. If any modifications or third party parts are fitted, this includes filters.
  - g. If the product is used for which it was not designed or intended.
  - h. Unless the product has been installed as per the installation instructions supplied with the product.
  - i. Unless the product has been installed by a person licenced to do so.
  - j. If the product or part has been damaged due to:
    - (i) Misuse or abnormal use.
    - (ii) Accidental damage.
    - (iii) Neglect.
    - (iv) Acts of God, such as cyclones, lightning strikes, flooding etc.
    - (v) Continued use after the fault has become apparent.
  - k. If the serial number or rating label, which identifies the product has been removed or tampered with.
  - l. For additional costs involved to access products.
  - m. For general wear and tear.

- n. Damage that occurred during transport.
- o. For the life of the battery.

## **How to make a warranty claim**

If you have a product that you feel meets the requirements above and has become faulty please contact Supakwik via email at [services@supakwik.com](mailto:services@supakwik.com) or phone (07) 3255 6389. Supakwik must be contacted before any works have commenced on a product, or is returned to us for repair or replacement under warranty. Failure to comply may result in the warranty void.

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