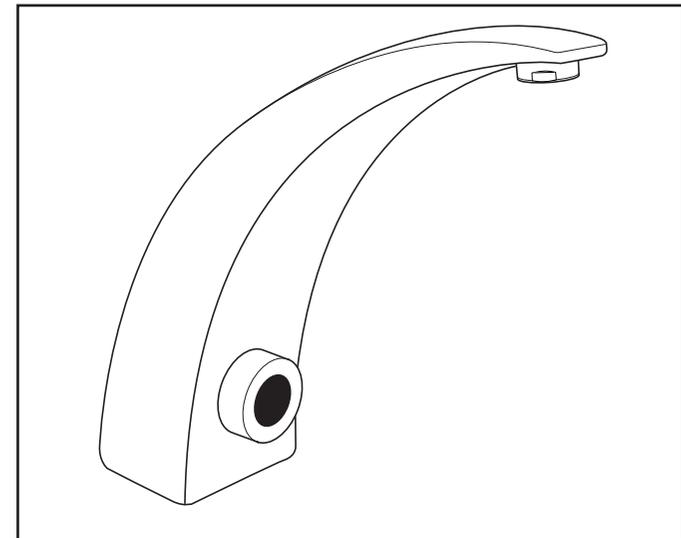

Installation and Maintenance Instructions



Saracen Infra Red Basin Taps



The Saracen range of high specification infra red basin taps for the commercial and institutional markets.

Catalogue Numbers

- C.66.080 - Battery operated version
- C.66.081 - Mains operated version



Plumb Center reserves the right to make changes to the product which may affect the accuracy of information contained in this leaflet.

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Section 1 - General Information

The Saracen range of infra red basin taps has been designed for the commercial and institutional markets and has been built to a very high specification. The Saracen infra red basin tap is totally hands free in operation which makes it ideal for use in environments like hospitals and nursing homes where infection from cross contamination can be a serious problem. All of the functions of the Saracen infra red basin tap are factory programmed into a small computer chip which is incorporated into the infra red sensor, the run time is set so that when the sensor “sees” a presence a solenoid valve is activated and water begins to run from the spout, water will continue to run as long as the sensor “sees” a presence, however after 30sec of continuous running the tap will automatically shut off and will not begin running again until whatever is activating the sensor is removed, after this the tap returns to normal operation (this feature is provided to prevent vandalism i.e. blocking the sensor with some object). When in use the tap also has a delayed shut off of 2 secs. so that if the users hands move briefly away from the sensor the tap does not continually turn on and off. The Saracen infra red basin tap is available with either lithium battery or mains connection (through a transformer) and comes complete with a push fit solenoid valve, push fit x spigot braided connection hose and 1 metre long electrical connection cables.

Section 2 - Technical Specifications

Specifications

Minimum operating pressure: 0.5 bar
 Maximum operating pressure: 6.0 bar
 Maximum water temperature: 90°C

Materials

Braided Hose: Push fit*spigot, 7 strand braided stainless steel
 Sensor: Active infra red, factory set for a range of 50-200mm (default 120 adjustable)
 Body: Cast brass, chrome plated
 Aerator: Neoperl C/W 6LPM flow regulator
 Seals: Nitrile

Section 6 - Trouble Shooting

Problem	Cause	Action
As soon as the power is connected the solenoid valve opens and water runs	Solenoid valve cables connected backwards	Change cable orientation
No matter how much the beam is broken, water will not run	Water pressure too high	Check pressure and reduce if necessary using a pressure reducing valve
	Battery incorrectly installed	Check and reinstall
	Cables not correctly installed	Check and reinstall
	Mains power not available	Check supply and fuses
Flow is very poor	Water pressure too low	Check pressures, boost if necessary
	Strainers blocked	Remove strainers and clean
	Aerator fouled	Remove aerator and clean

Section 4 -Set Up

The range can be adjusted as follows:

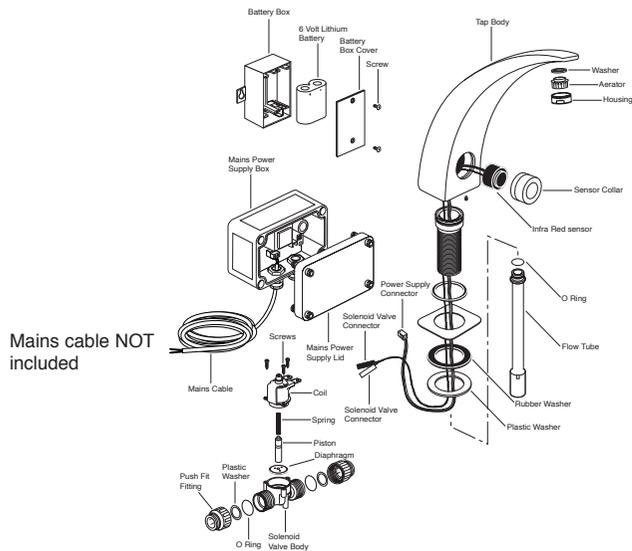
1. Switch off the device:
 - a) for battery, remove the grey sensor lead from the battery holder
 - b) for mains, isolate at the spur
2. Wait for a few seconds then switch on the device:
 - a) for battery, reconnect the grey sensor lead to the battery holder
 - b) for mains, switch on mains isolator
3. Put your hand at a distance of less than 5cm while the LED is blinking.
4. When the red LED stays ON, put your hand at the desired distance.
5. Wait until the red LED goes off and remove your hand.
6. The set range is now in the memory.

After the battery change, the red LED will blink. Avoid putting any object at a distance of less than 5cm until the LED goes off to keep the previous setting. The standard range is 120mm.

NOTE

The digital processing of the signal ensures an accuracy range of +/-20%.

Section 5 -Exploded Drawing



Section 3 - Installation

3.1

Unpack all components and check that all of the parts required are present. If installing the battery operated version the tap package should include the following.

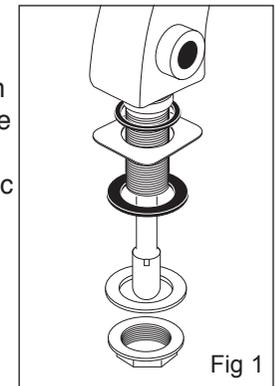
- Main tap body with forward facing infra red sensor and integral 1 metre long cables
- Battery box
- 6 volt lithium battery
- 1*sealing ring for the bottom of the tap
- 1*square sealing ring for the bottom of the tap
- 1*rubber washer for the bottom of the basin
- 1*plastic washer
- 1*3/4" brass backnut
- 1*push fit solenoid valve
- 1*push fit x spigot connection hose

Note that for mains powered taps the battery box and battery are replaced by 6 volt transformer box

Once all components are verified proceed to install the basin tap. Flush the installation pipework thoroughly and install a y type strainer to prevent system contamination from damaging the solenoid valve.

3.2

With the round sealing ring and square sealing ring in place carefully feed the connection cables through the chosen hole in the basin or counter top, once the tap is in place fit the rubber washer followed by the plastic washer over the 3/4" threads and then spin the backnut into position and tighten until the tap is securely fixed. Extreme care must be taken not to pinch, crimp, cut or otherwise damage the connection cables. (See Fig 1)



3.3

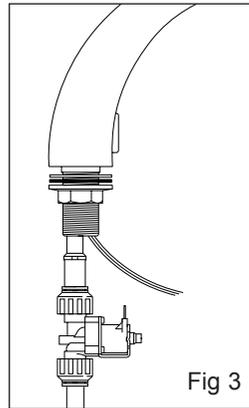
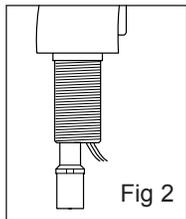
Connect the water supply using the push fit solenoid and push fit flexible hose provided. There are 2 options depending on the installation.

IMPORTANT NOTE:

The water supply to the solenoid valve must be protected with a strainer to prevent debris entering it and damaging the internal components.

Option 1 (See Figs 2 and 3)

Fit the solenoid valve directly onto the 15mm brass spigot which protrudes from the bottom of the tap, ensuring that the direction of flow is correct. Insert the brass spigot end of the flexible hose onto the solenoid valve, attach the push fit end of the flexible hose onto the 15mm supply pipework.



Option 2

Fit the push fit end of the flexible hose onto the 15mm brass spigot which protrudes from the bottom of the tap. Insert the brass spigot end of the flexible hose onto the solenoid valve and attach the other end of the solenoid valve to the 15mm pipework ensuring that the direction of flow is correct

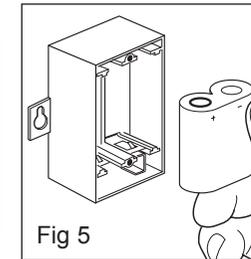
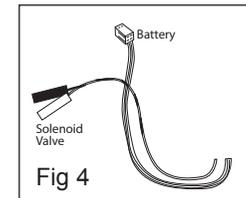
Pressure test the installation.

3.4

Connect the power supply as follows:

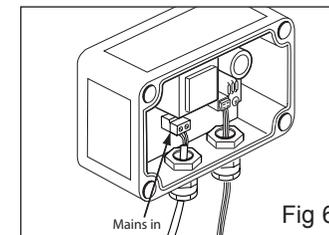
Battery Power

Fit the battery box to a firm sound surface in an area where it will not be subject to flooding, using the screw holes provided. Connect the grey power cable to the battery box, connect the cables to the solenoid valve, red to + positive and black to - negative and install the 6 volt lithium battery and fit cover. (See Figs 4 and 5)



Mains power version

Fit the mains powered transformer as per the battery powered version. Connect the mains supply to the transformer with 2 core cable taking care to fit the cable cores to the terminals in the correct manner i.e. red or brown to + positive black or blue to - negative. No earth connection required. Install the control cables to the terminals in the same manner.



It is strongly recommended that the connections to the mains be carried out by an approved electrician and that isolation in the form of a fused or switched spur is provided.

Wiring must conform to all local codes and bylaws.

3.5

Turn the water supply on to the solenoid valve, when the beam is broken the water should now begin to run, when the object is removed, and the beam is restored the water will shut off (after 2 second delay).