

WATER WATCH FLUSH CONTROLLER **OPERATION AND MAINTENANCE**

Please read these instructions very carefully

The Water Watch controller and valve should only be installed and maintained by competent personnel who are conversant with plumbing and electrical installations. If in doubt contact Marnic Technology Ltd at the address below.

OPERATING INSTRUCTIONS

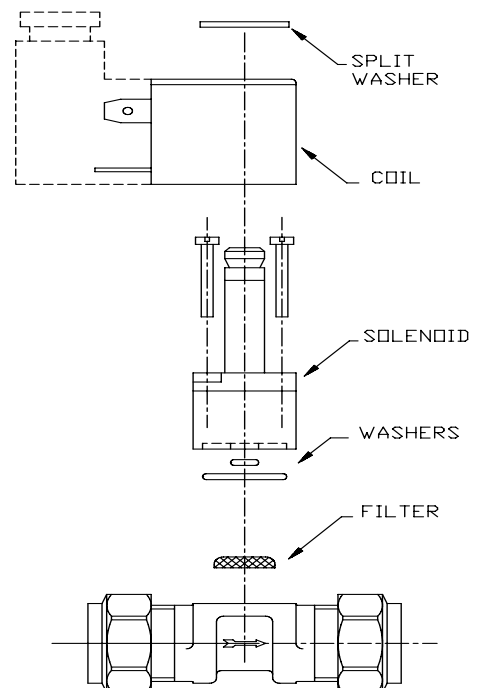
Once the Water Watch has been correctly installed all functions are completely automatic. The settings for the flush rate will have been set by your installer and should require no further adjustment.

On battery operated units the small red lamp will only flash to indicate that it is time to replace the battery. On mains powered units the small red lamp can be set using a link on the circuit board to flash when washroom occupancy is detected, otherwise it has no function.

MAINTENANCE INSTRUCTIONS

Cleaning Control Unit - The control unit may periodically be wiped with a damp cloth and mild detergent. As with all electronic / electrical devices it should not be sprayed with water or steam cleaned.

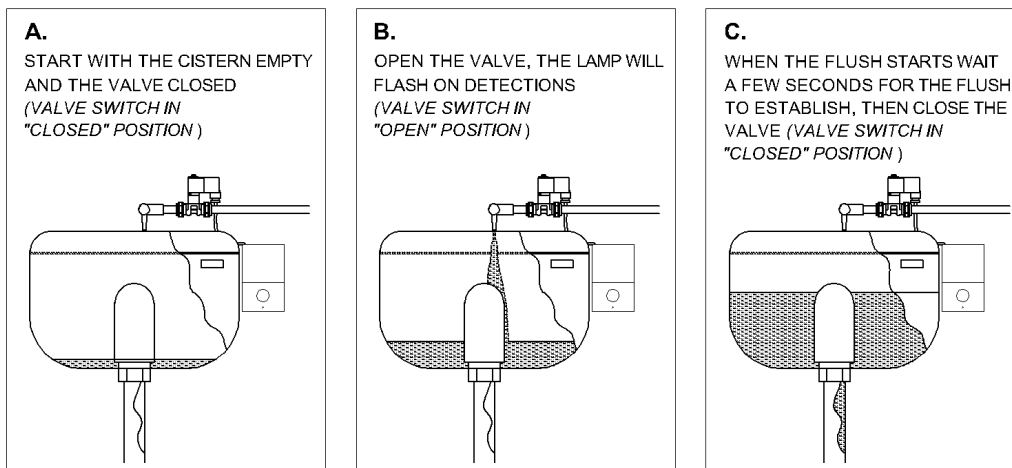
Cleaning the Valve - The control valve should be cleaned annually together with any associated dirt collectors or filters if fitted. Carefully study the following diagram of the valve to familiarise your self with the valve's component parts. It is generally not necessary to remove the valve from the pipe. Remove the valve coil by slipping the plastic split washer off. The valve actuating coil can then be removed. The two black raised screws can then be removed. Do not touch the sunken screws. It is then possible to separate the two parts of the valve taking care to not loose the two rubber 'O' ring water seals. A small stainless steel filter is then visible in the brass valve body. This may be carefully removed and flushed with clean water to remove any accumulated debris. Flush clean water through the solenoid body to clean thoroughly. Reassemble the valve and valve actuator carefully. The valve can be tested by operating the circuit board switch (see section on functional testing). The switch must be returned to the closed position within one minute otherwise the flush fill time will be affected.



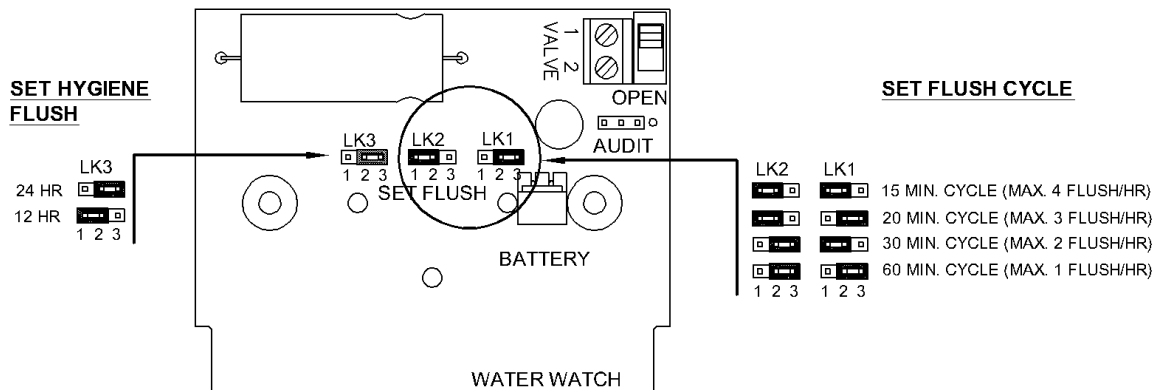
Changing the Battery - It is recommended that the battery is replaced every three years. Under normal operating conditions the red lamp on the control box will flash when the battery requires changing and each battery is stamped with a replacement date which should not be exceeded.

The controller cover is removed from the back mounting plate by inserting a screw driver into the hole on the controller top edge and screwing down the retaining screw. The electronics and battery are contained in the controller cover and care must be taken not to disturb the inter-connecting cable.

The battery is retained by a Velcro pad and the expired battery is easily removed. New batteries are available from Marnic Technology at the address below. Install the replacement battery and follow the setting up procedure below before replacing the control unit cover and carefully screw up the retaining screw.



Changing the Flush Setting - The maximum flush rate and hygiene flush period can be adjusted by setting the position of three moveable shorting links on the controller printed circuit board. Below is a diagram of the Water Watch circuit board showing the three sets of pins in the centre and a table of settings.



Periodic Functional Testing - Correct operation of the valve and occupancy detector can be checked at any time without affecting normal operation of the Water Watch by following the procedure described below.

Remove the lid as described in the section on changing the battery. Move the slide switch in the top right hand corner of the circuit board down into the "OPEN" position. If the valve was previously closed the Water Watch will force the valve to open. While the switch is in this position the red lamp on the front panel will flash in response to movement in front of the plastic dome lens (Battery Version Only), confirming operation of the occupancy detector. After 5 - 10 seconds return the switch to the closed position, forcing the valve to shut. If the valve is not operating, clean the valve as described above.

A separate shorting link is provided on the mains powered version for conducting a "walk test". When this link is shorted the red lamp will flash in response to occupancy detection. This link can be left in the "walk test" position if desired.

Operation of the switch as described above can be carried out repeatedly without affecting normal operation. However, **the switch must not be left in the open position longer than 60 seconds.** Otherwise the Water Watch will assume the switch is being used to set the cistern fill time used during its automatic flushes.

