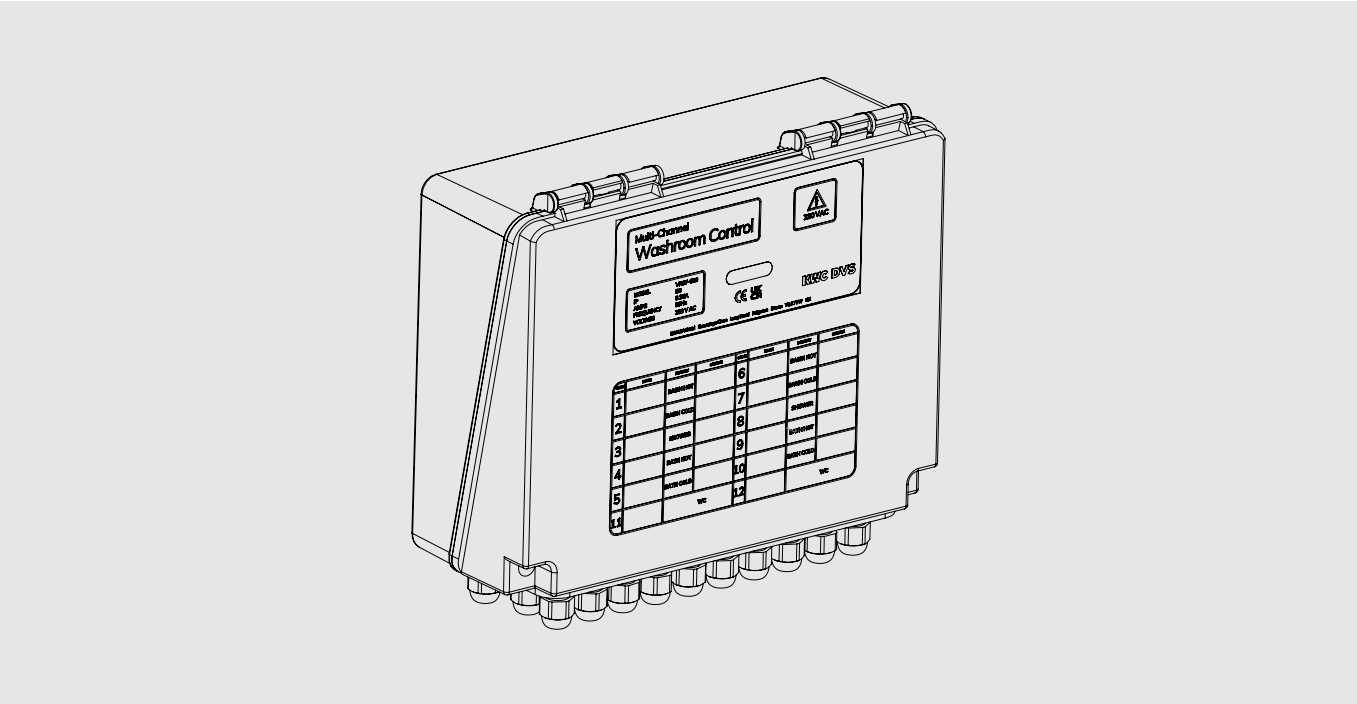


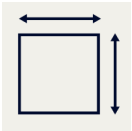
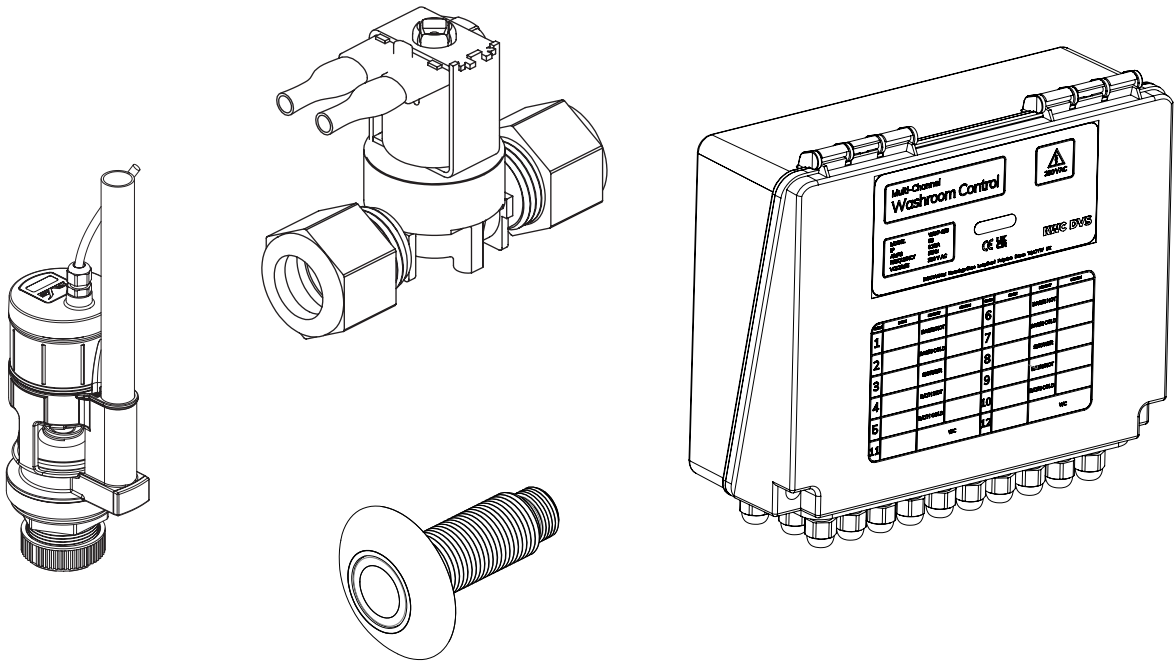
DVS



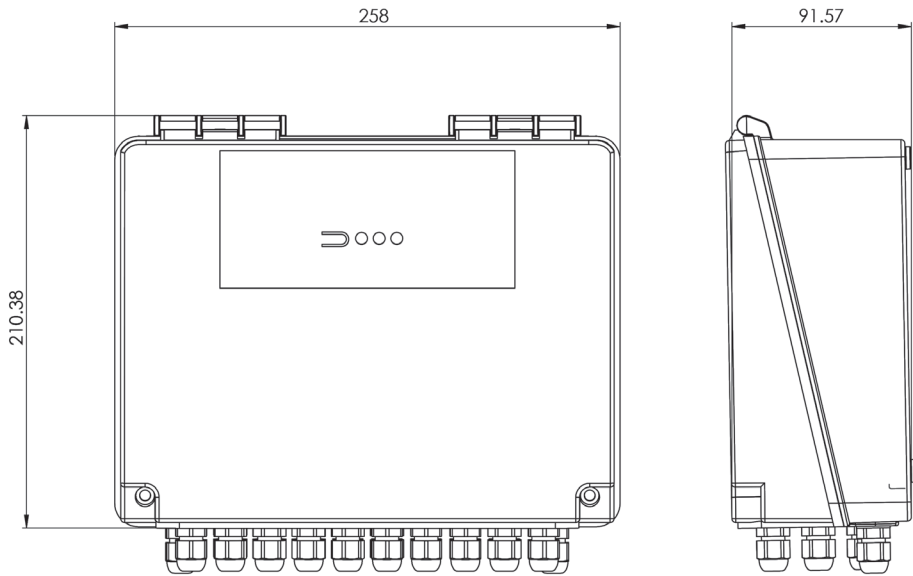
VR07-020

EN Installation and operating instructions

VR07-020



VR07-020





These instructions relate to the use of the Washroom Control System only, any external or 'add-on' parts will be supplied with separate instructions.

The electrical part of the installation MUST be carried out by a qualified electrician in accordance with the latest electrical regulations. It is also recommended that any plumbing is carried out by a qualified plumber.

This is a sophisticated electronic device which must be installed correctly to perform correctly.

Children should be supervised to ensure that they do not play with the appliance.

IMPORTANT: Please read these instructions carefully and follow each stage in order!

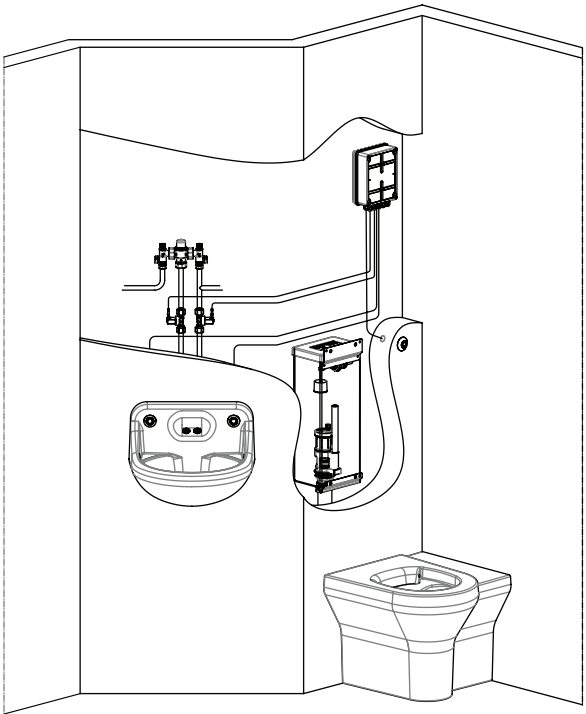
.....

1. Installation

EN Installation



1

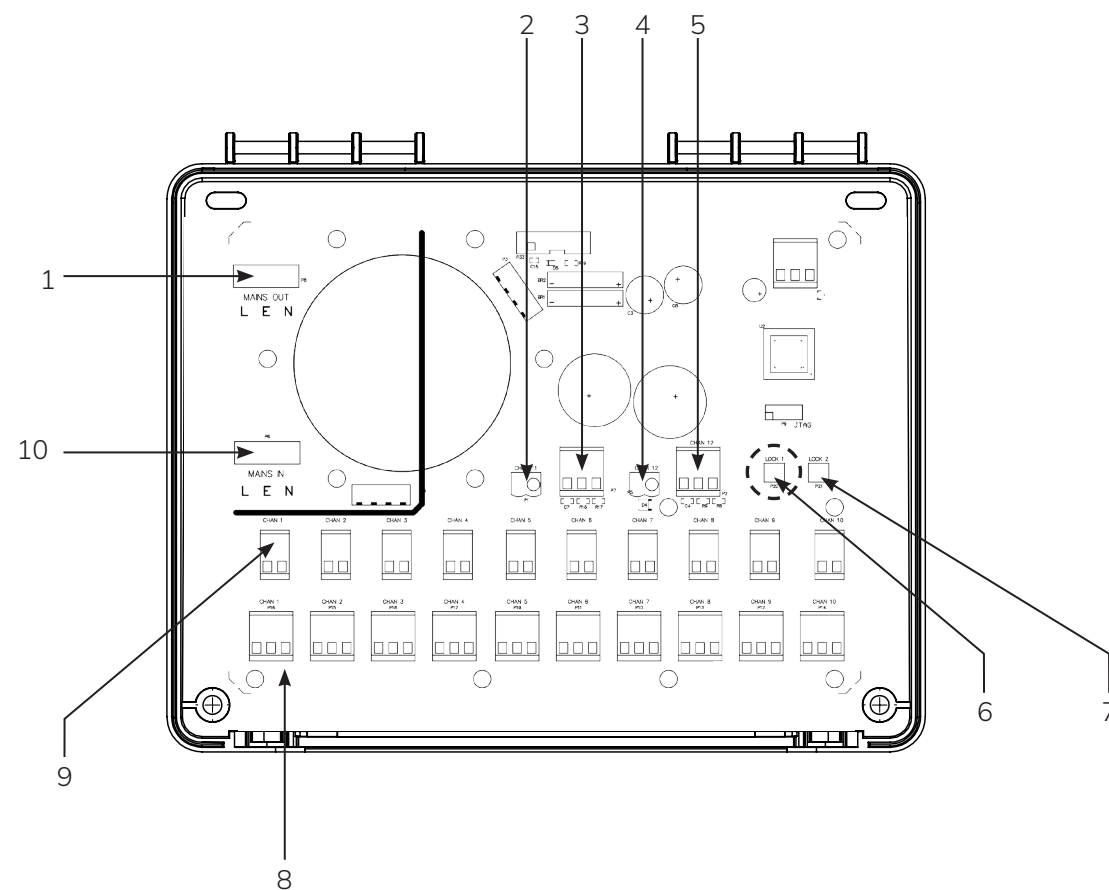


The Control System Box should be located in a dry location and not exposed to dirt, dust or damp. The unit should be accessible when required, but not within easy general reach of unauthorised persons. It will be necessary to make adjustments and service the control unit after installation, and in the future. Secure access areas and duct spaces are recommended.

The control unit is not designed for direct surface mounting into washroom areas. Never open the cover with the supply live. The routes that cables will take when connecting external equipment to the control unit should also be planned at this stage.

1. High Security Basin
2. Solenoid Valve
3. TMV Thermostatic Mixing Valve
4. Control Box
5. WC Flushing Sensor
6. WC Flushvalve and Concealed Cistern
7. Side in-fill (optional)
8. High Security WC Pan

2



1. Mains Out
2. WC Valve Channel 11
3. WC Sensor Channel 11
4. WC Valve Channel 12
5. WC Sensor Channel 12
6. Lock Out Channel 1-5 & 11
7. Lock Out Channel 6-10 & 12
8. Sensor Channel's 1-10
9. Valve Output's 1-10
10. Mains In

Recommended - Sensor Cable Entry (back row glands) and Valve Cable Entry (front row glands).

Safety

CAUTION! 220-240V A.C.
NEVER open the cover with the supply live.
DO NOT extend cables.
DO NOT leave badly fitted cables.
DO NOT leave slack cables in the enclosure.
DO NOT interfere with the mains flex.
DO check all cables and connections.
DO ask for advice if/when necessary.

Ensure the LED is extinguished before entering the enclosure.

By default the channels are programmed for the below products.

1. Basin (Tap) Hot
2. Basin (Tap) Cold
3. Shower
4. Bath Hot
5. Bath Cold
6. Basin (Tap) Hot
7. Basin (Tap) Cold
8. Shower
9. Bath Hot
10. Bath Cold
11. WC (Flush Valve)
12. WC (Flush Valve)

Channels 1-10 can be reprogrammed to any product that uses a solenoid valve to control the water supply.

However please note 11-12 are locked to products that use WC flush valves only.

The channel indication label can be written on to keep track of where products are located and of any custom configurations.

3

The unit should be securely fixed in a suitable location in a vertical orientation with the glands pointing down, so that the front label can be read correctly.

Open lid to expose four fixing holes around the edge of the enclosure. These holes allow the fastening of the unit without removing the printed circuit board. Mark the wall through these fixing holes and fix the control unit with suitable fixings.

The mains supply should NOT be initiated until all external equipment has been installed and wired. Connect the mains supply lead to a 230V a.c. supply via a fused spur, the fuse rating should be 3 Amps. (Not supplied)

Always read instructions supplied with external components and ensure that only the supplied equipment is connected to the control box.

Valve cables should enter the enclosure from Row 1, 2 or 3 of cable glands. The sensor cables should enter the enclosure through Row 1, 2 or 3 of cable glands. Keep all connections tidy and do not allow cable to finish or hang in the transformer area.

It is recommended that each cable is fed through the relative cable gland into the enclosure; the cable can then be pulled out towards the installer to allow for enough length of free cable for the plug to be fitted.

The plug is disconnected from the mating socket; when wiring for a sensor ensure that the cables are connected correctly as per the label on the plug. For valves there is no polarity and so can be connected in any orientation.

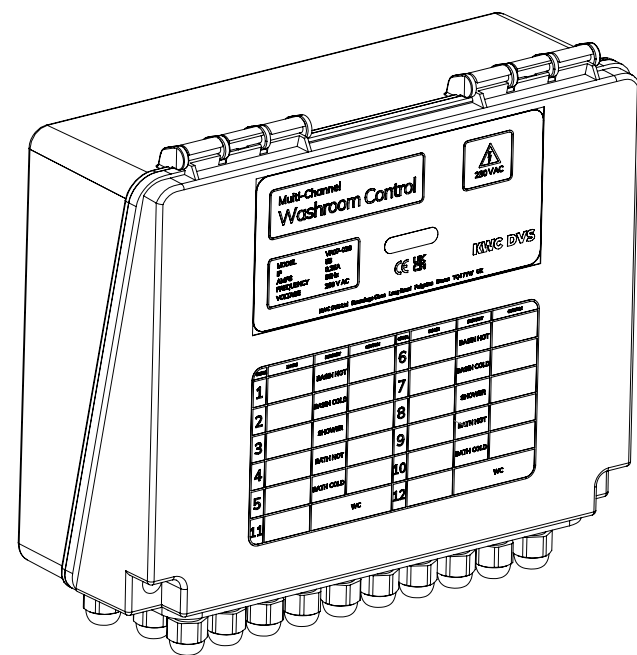
When each plug has been wired the cable can be pulled back through the cable gland, and the plug re-connected to the corresponding socket. Cables should not be left to torte or slack when secured by the cable gland.

When all connections are made and checked, replace the lid and secure.

Safety

- CAUTION! 220-240V a.c.
- NEVER open the cover with the supply live.
- DO NOT extend cables.
- DO NOT leave badly fitted cables.
- DO NOT leave slack cables in the enclosure.
- DO check all cables and connections.
- DO ask for advice if/when necessary.
- Make sure all Glands are secure

4

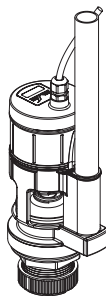


- After all external equipment is installed, the mains supply can be connected.
- When connecting to mains always make sure that the lid is tightly closed and secure.
- NEVER open the cover with the supply live.
- When the control unit is first powered on, the power light will illuminate to show that the control box is active.

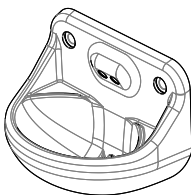
5

	DEFAULT SETTINGS	OPTIONAL SETTINGS
WAVE FLUSH VALVE MENU Flush type Flush time(s) Range Automatic purge Purge run time Lock outs	Single 4 seconds 2 OFF 4 seconds OFF	Single or dual 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5 seconds 1-3 OFF, 3, 6, 12, 24, 36, 48, 72 hours 2, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5 seconds OFF, 2 - 10 Ops
TAP MENU Run time Sensor range Wave on/off operation Anti-vandal time Automatic purge Purge run time Lock outs	2 seconds 5 OFF 1 minute OFF 1 minute OFF	2, 5, 10, 15, 20, 30 seconds 1-10 ON/OFF 30 seconds, 1, 2, 4, 8 minutes OFF, 3, 6, 12, 24, 36, 38 hours 30 seconds, 1, 2, 4, 8 minutes OFF, 4, 6, 8, 10, Ops
SHOWER MENU Run time Sensor range Wave on/off operation Anti-vandal time Automatic purge Purge run time Lock outs	1 minute 2 OFF Run + 10s OFF 1 minute OFF	30 seconds, 1, 2, 3, 4, 5 minutes 1-3 ON/OFF Run + 10s OFF, 3, 6, 12, 24, 36, 38 hours 30 seconds, 1, 2, 4, 8 minutes OFF, 4
BATH MENU Run time Sensor range Wave on/off operation Anti-vandal time Automatic purge Purge run time Lock outs	2 minutes 2 OFF Run + 10s OFF 1 minute OFF	1, 2, 3, 4, 8, 10 minutes 1-3 ON/OFF Run + 10s OFF, 6, 12, 24, 36, 48, 72 hours 30 seconds, 1, 2, 4, 8 minutes OFF, 2, 4, 6, 8 Ops

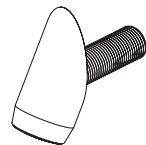
Typically used with
WC01 - 023 or
WC01 - 022
WC Flushvalve



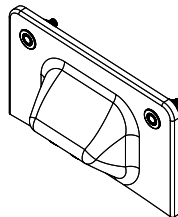
Typically used
with VR01 - 030
high security wash
basin with in-built
hot and cold
sensors and
spouts.



Typically used with
SH07 - 040
anti-ligature
showerhead and
sensor.

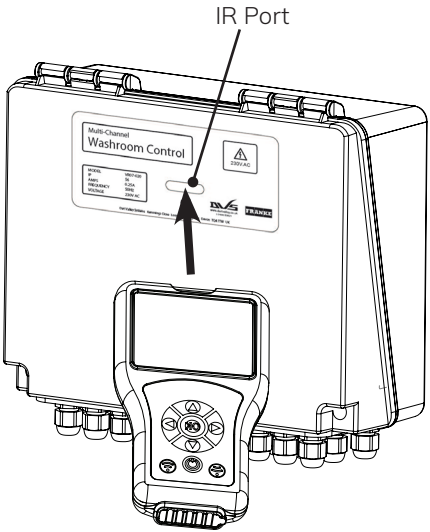


Typically used with
VR01-024
High security bath
filling back plate.



1. Program the Multi-Channel Control Box; (Channel by channel, adjust the settings)
2. Hold the Programmer up to the sensor on the control box (see image to the right)
3. Press the 'Read Button' to load the control box's current settings.
4. Choose your requires settings from the displayed menu's.
5. Once settings are selected, press the 'Send Button' this will program the control box with your selected settings.

Read Button   Send Button



6

The automatic purge is enabled through the Front Panel Menu. The default setting is disabled. See Menu Settings guide (Step 7) for instructions on how to enable this feature.

When the purge feature is enabled each channel (Flushvalve, Hot and Cold Water and Shower) is independently monitored. If a channel has been inactive for 24 hours a single operation of that channel will be carried out.

When a purge operation is carried out the time used for that operation will be the time set in the menu.

Set by Hand-Held Programmer (See Step 8)

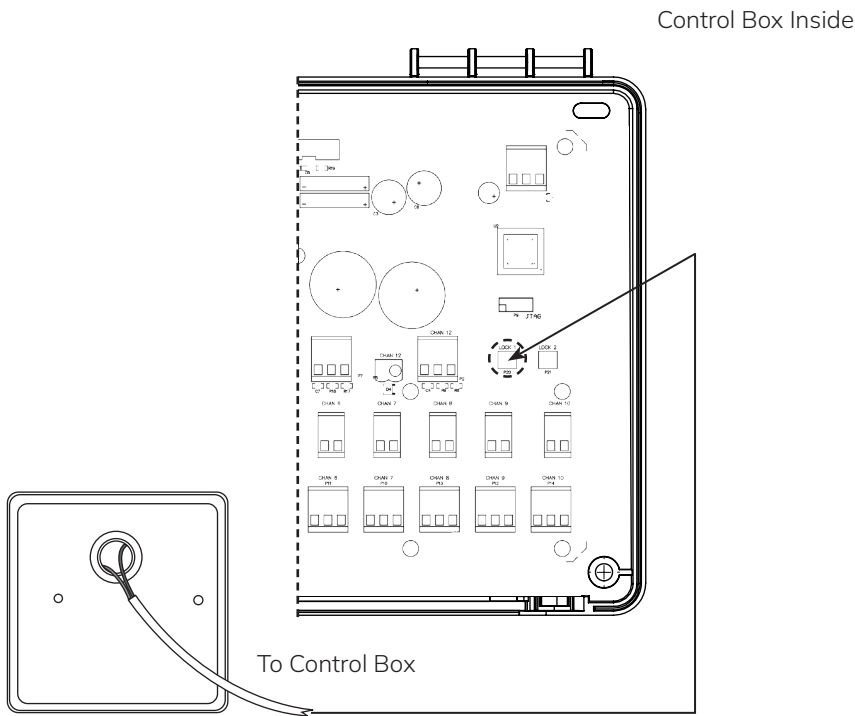
The Lock Out feature is enabled through the Front Panel Menu. The default setting is disabled. See Menu Settings guide (Step 7) for instructions on how to enable this feature.

When enabled the system monitors each channel (Flushvalve, Hot and Cold Water and Shower) independently in blocks of 15 minutes.

If 4 operations of a single channel are carried out within that 15 minute block the system will lock out that particular channel for the remainder of that block.

Set by Hand-Held Programmer (See Step 8)

7



The optional key switch is used to cancel, disable and reset all options and needs to be ordered separately.

When the key switch is ON for approximately 2 seconds all current operations are cancelled and all lockouts are cleared. Purges will continue to activate however the countdown timer to the next purge will be reset to 0, all other programmed purge settings (purge regularity and purge run time) will be retained. Normal operation is resumed by turning the key switch off, additionally this will also reset the purge countdown timer to 0 again.

The cancel feature is only available during 'normal' use, not during any other program routine.

Wiring guide

Connect the blue and brown lead from the key switch to the correct position on the connector plug as illustrated in the diagram.

8

CHLORINATE MENU

Chlorination Time

Abort and Reset

1 Minute

1, 2, 3, 4, 5, 10, 20 & 30 Minutes

When all valves close normal operation will resume.

Repeat if further chlorination is required.

Set by Hand-Held Programmer (See above)

2. Product disposal

EN Installation



The use of this crossed out wheeled bin logo indicates that this product needs to be disposed of separately to any other household waste.

Within each of the European Union member countries, provisions have been made for the collection and recycling of unwanted electrical and electronic equipment. Outside of the EU it will be necessary to dispose of this product at your local community waste collection or recycling centre.

In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local city council for collection centre details.

3. Product list

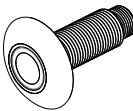
EN Installation



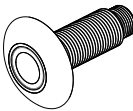
- The following parts are compatible with the VR07 - 020 Washroom Control System. The actual parts supplied will vary according to the detail of the kit you have ordered.
- VR07-020 - Washroom Control System
- AC04-016 - Key switch for Washroom Control System
- WC01-023 - Slimline flushvalve with in-built overflow (2 inch base)
- WC01-022 - Slimline flushvalve with in-built overflow (1 ½ inch base)
- XXXX-XXX - Anti-Microbial Solenoid Valve
- AC17-047 - 4 in 1 thermostatic mixing valve
- VR01-030 - High security basin with integrated backplate
- VR01- 010 - High security WC pan
- Other options: VR01-017 - Wall hung WC pan, VR01-011 - Disabled height WC pan

WARNING! : Installing sensors opposite mirrors or other infrared sensors can affect normal operation and should be avoided.

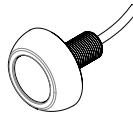
AC02-047 - Tactile switch with 50mm stainless steel bezel and Red insert (Hot)



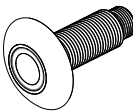
AC02-046 - Tactile switch with 50mm stainless steel bezel and Blue insert (Cold)



SH00-001 - Shower Sensor

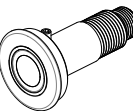


AC02-040 - Anti vandal WC wave on sensor with 50mm stainless steel bezel

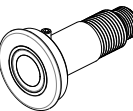


The following sensors are specifically designed for use with the high Security basin and backplate.

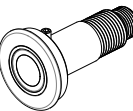
VR00-002 - Wave on sensor for backplates with Red insert (Hot)



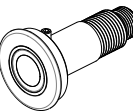
VR00-001 Wave on sensor for backplates with Blue insert (Cold)



VR00-006 - Push sensor for backplates with Red insert (Hot)



VR00-005 Push sensor for backplates with Blue insert (Cold)



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