MEFE
MITCHELL ENGINEERING
FOOD EQUIPMENT PTY LTD

Instruction Manual

Auto Toilet Flush

Infrared Sensor and Button CAT 672062

Revision 1

Pre-Install Instructions

- Before installing the valve, all pipes should be flushed with clean water to remove any impurities or silt in the pipeline.
- Do not install in direct sunlight.
- Avoid any reflections in front of the sensor such as mirrors, marble, stainless steel, etc.
- Dynamic working pressure is 0.3Mpa—0.4Mpa.
- Recommend pipe inner diameter greater than 25mm for maximum flow.
- Use Water Temperature 1-50°C
- Flush Volume Average: 3.4L (0.15/0.25/0.35Mpa test data) (flush volume is adjustable)
- Automatically flushes every 24 hours when not in use.
- 304 stainless steel ultra-thin panel. Remove the panel to maintain the solenoid valve and close the water gate.

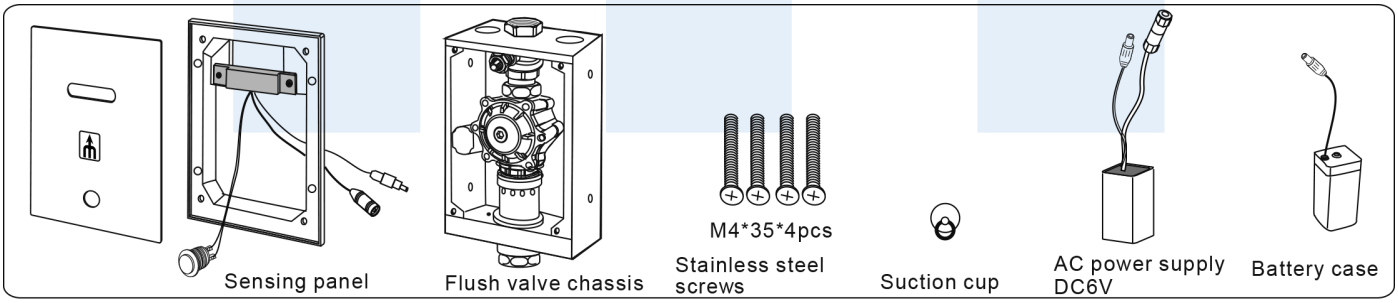
Recommended Tools and Materials

Open end/adjustable wrench	Level	Special wrenches
Tape measure	Pliers	Wire cutter
Basin wrench	Socket wrench with sockets	Insulation tape
Pipe wrench	Phillips driver	Bushing
Square	Seal tape	

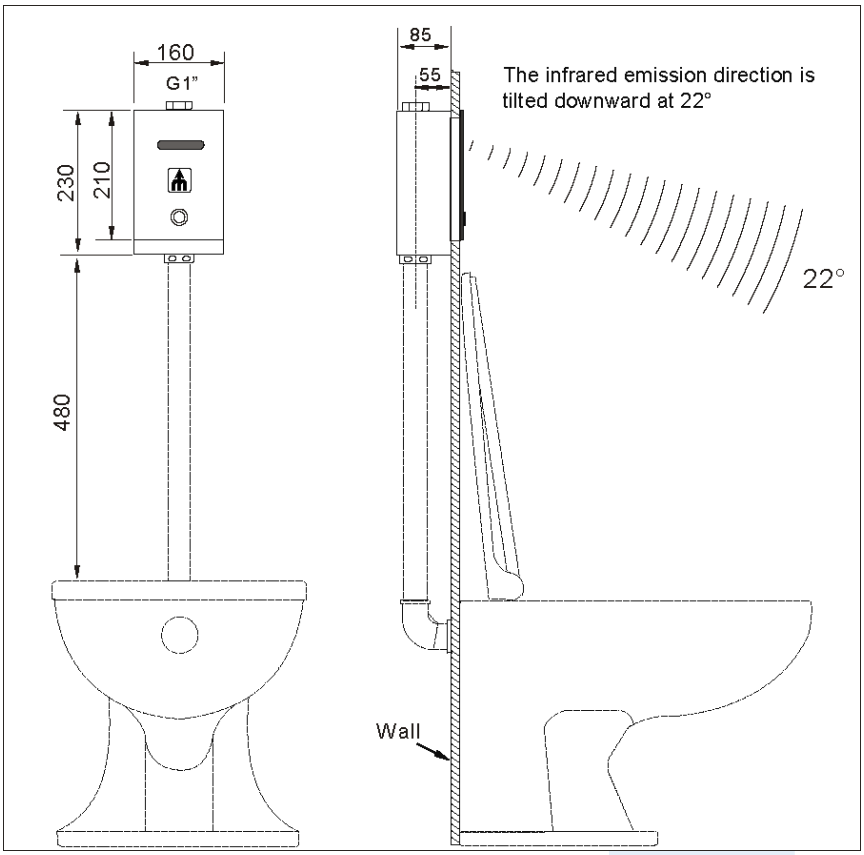
Specifications

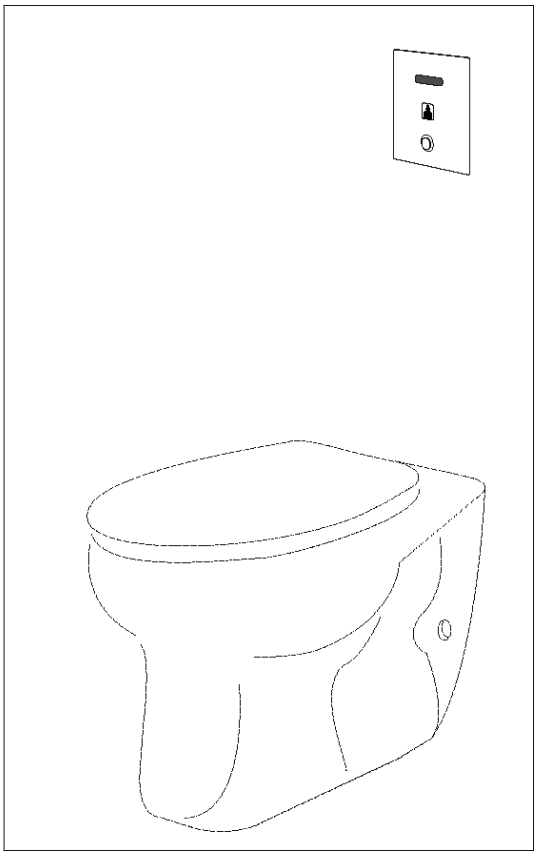
Power Supply	AC 220v 50-60Hz supply or DC 4 x AA Alkaline Batteries
Sensor Distance	Within 75cm (along the direction of the emission angle—22°)
Dimensions	28 cm x 16 cm x 9 cm
Flushing Style	The user is within the sensing range for at least 3 seconds and flushes for roughly 6 seconds after leaving
Inlet Water	G 1” internal thread
Outlet	Outer Ø32mm PVC Pipe
Dynamic Pressure	0.3Mpa—0.4Mpa
Recommended Pressure	0.24—0.55Mpa
Installation	Concealed into wall

Packing List



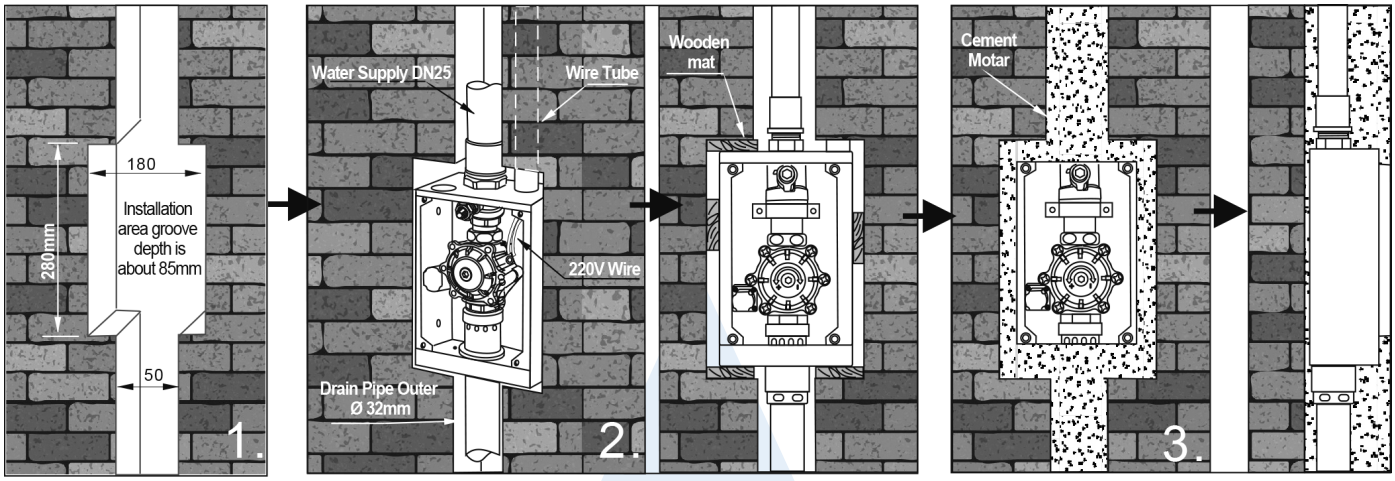
Installation



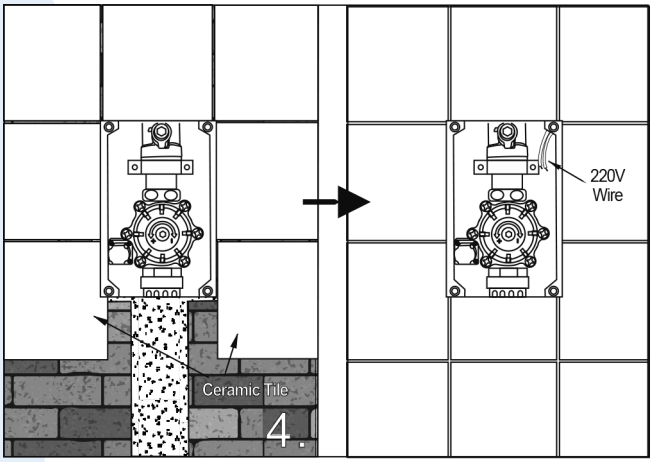


Recommended water pressure: The static pressure at the water inlet of the flushing valve is 0.24-0.55Mpa. The inner diameter of the water supply pipeline is not less than 25mm (including water meters, valves, etc.) This flush valve device is suitable for concealed installation. There are two methods:

Note: Avoid reflective objects directly opposite the sensor (such as mirrors, bright stainless steel plates and other mirrored objects, etc. and keep away from strong ultraviolet or electromagnetic fields.



Method 1 — Cut a groove in the main body of the brick wall or reserve a groove when laying bricks, and then insert the flush valve and pipe into the groove to fix it. Determine the installation height and size according to the installation location of the toilet, and bury water supply pipes, drainage pipes, electrical conduits, and flush valve casings.



Step 1 - Dig out a groove according to the size shown in the picture. The depth of the groove is about 85mm.

Step 2 - Connect the water inlet pipe and drain pipe of the flush valve chassis.

Notice: Before connecting the water inlet pipe, the water gate should be opened to flush the pipe to avoid impurities and debris in the newly connected pipe from blocking the solenoid valve.

Notice: For AC power, wires and pipelines must be laid in advance, and the protective cover must be opened to introduce the power cord into the chassis (this step is omitted for battery power supply).

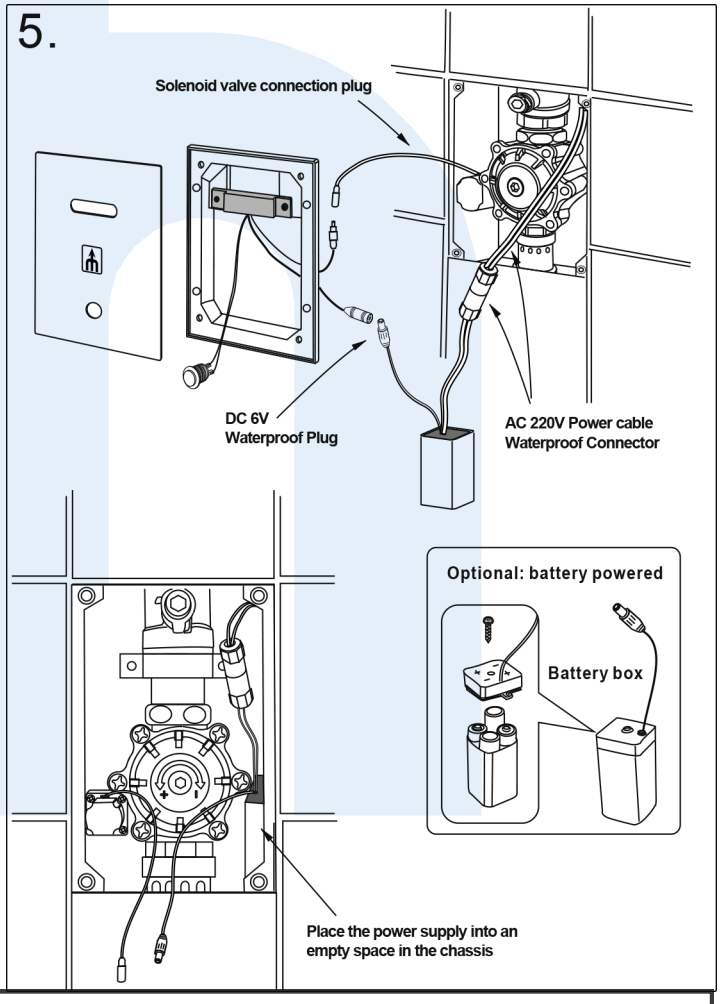
Notice: After the pipeline connection is completed, a hydraulic press should be used to check whether there is leakage at the connection.

Step 3 - Fix the case and fill it with cement mortar.

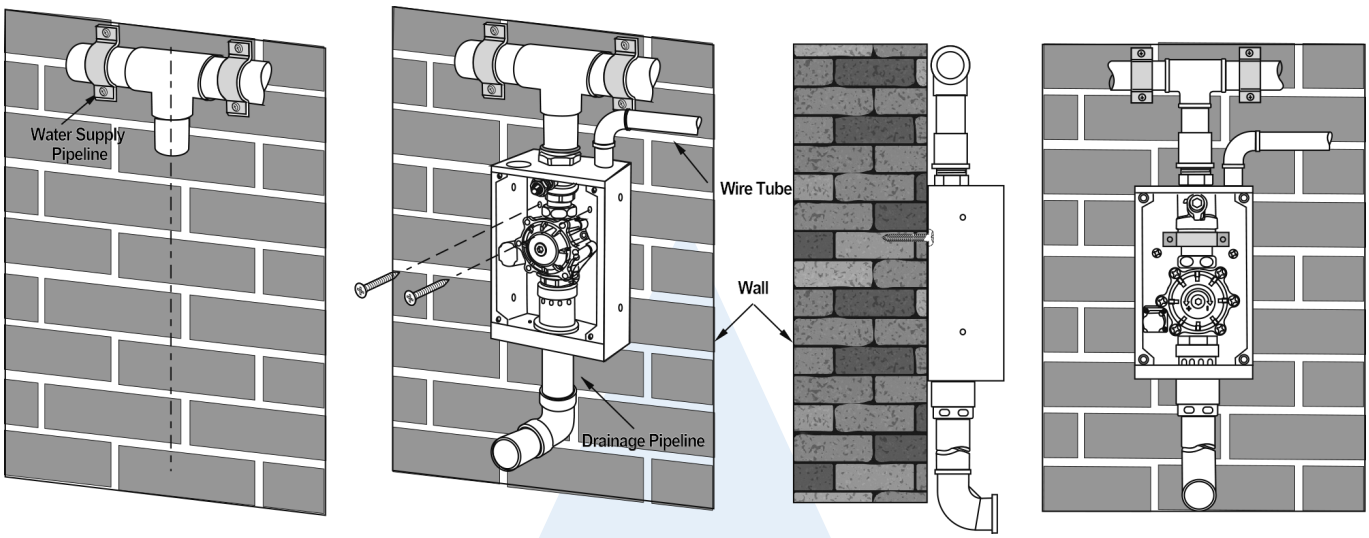
Step 4 - Wait until the cement mortar is dry before pasting ceramic tiles or other decorative boards. (When laying ceramic tiles or decorative boards, the opening should be close to the protective cover. Avoid creating too big a gap so that the sensing panel cannot be blocked)

Step 5 - Remove the protective cover and connect the power cord and solenoid valve as shown in the figure. Place the power supply into an empty space inside the chassis. When the power is turned on, the red light flashes for about 2 seconds and goes out.

Notice: When connecting the power supply, the power supply must be cut off and a warning sign must be placed at the switch.

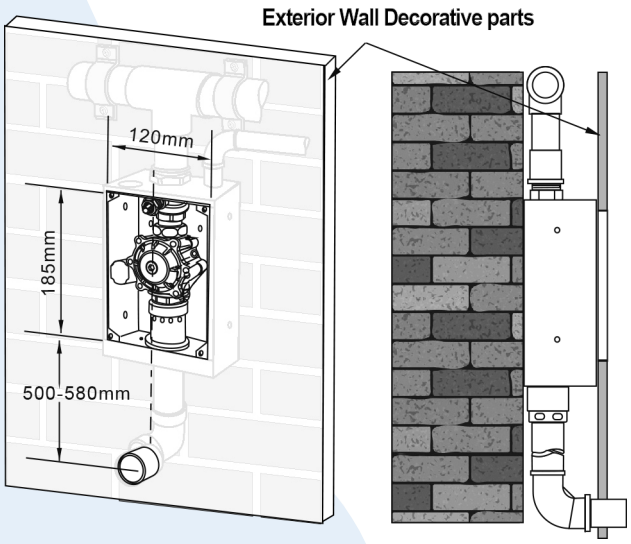


Method 2 — Use brackets to fix the flush valve and pipes to the wall, and then make another wall panel to cover them.



Step 1 - Determine the reasonable installation height and size according to the installation location of the toilet, and fix the water supply pipe on the wall.

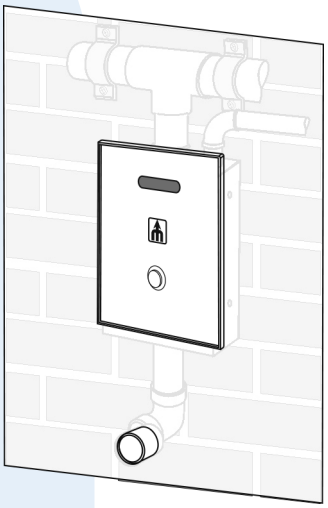
Step 2 - Connect the flush valve chassis to the water supply pipe, open the construction protective cover, fix it to the wall with screws, and then connect the drainage pipe and electrical conduit. Please refer to the Notices below.



Notice: Before connecting the water inlet pipe, the water gate should be opened to flush the pipe to avoid impurities and debris in the newly connected pipe from blocking the solenoid valve.

Notice: For AC power, wires and pipelines must be laid in advance, and the protective cover must be opened to introduce the power cord into the chassis (this step is omitted for battery power supply).

Notice: After the pipeline connection is completed, a hydraulic press should be used to check whether there is leakage at the connection.



Step 3 - Refer to the precautions in above of solid brick wall installation and reinstall the construction protective cover.

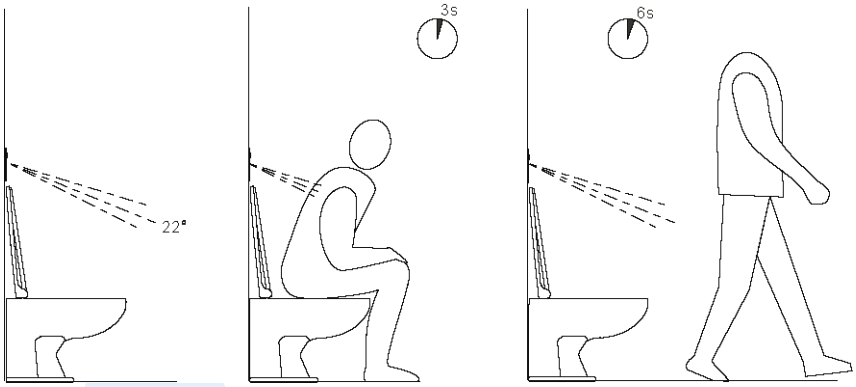
Step 4 - When installing and configuring exterior decorative panels, measure the position and size of the construction protective cover and make holes according to the size.

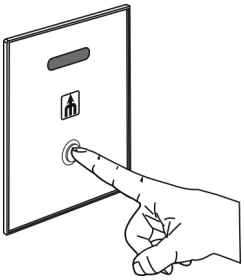
Notice: In order to avoid unnecessary property damage, the opening position should be carefully confirmed before proceeding.

Step 5 - After the wall decorative panel is installed, install the power supply and panel according to the diagram shown in step 5 on previous page, in method 1.

Use:

When no one is using it, the sensor continuously emits infrared waves diagonally downward at an angle of 22 degrees.
When the sensor senses that the user is sitting on the toilet, or standing in front of the toilet and remains for more than 3 seconds, the sensor automatically opens the flush valve and flushes the toilet for about 6 seconds.



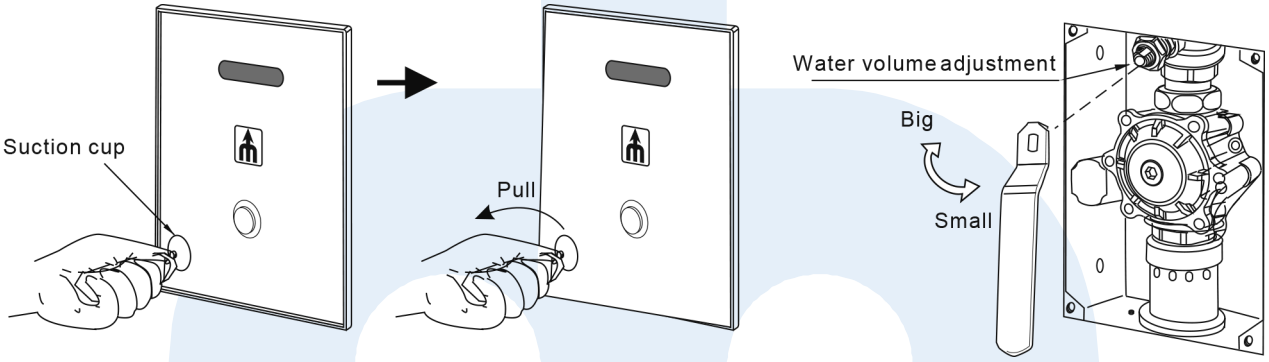


Manual flush button function

When you need to flush at any time, you can press the button and the flush valve will automatically flush for about 6 seconds.

Water Volume Adjustment

When the flushing water pressure is high and there is splashing, you can adjust the water flow appropriately, use a small suction cup to suck the sensing window and open the panel.
Use the supplied tool to adjust the flow rate, clockwise to decrease flow and counterclockwise to decrease flow.



Maintenance

If the flushing volume reduces sharply after installation or the valve has been used for a long time, and the cause is not related to water pressure, and you have checked and adjusted water flow, check the filter.

Turn off the water supply or fully close the valve. Then use an adjustable wrench to remove the filter and check for any silt and impurities and rinse accordingly. Check the seal is in place and tight. Please be cautious foreign materials do not enter the valve body.

When not in use for a long time, the sensor will drive the solenoid valve to flush once every 24 hours to prevent the deodorizer and drain pipe from drying up.

Cleaning

Keep the sensing window clean by wiping it regularly with a soft cloth. Only ever use soapy water.

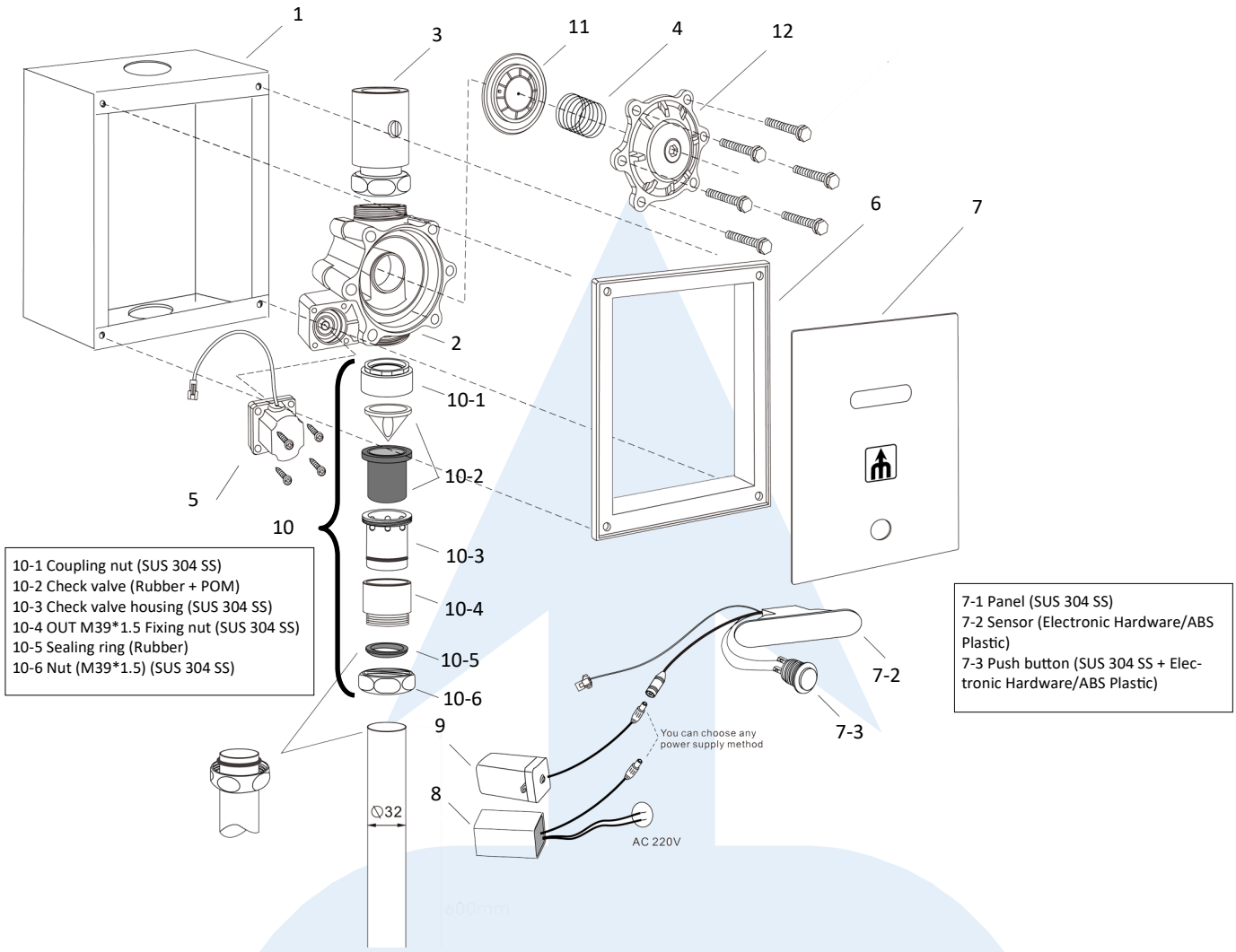
Do not use dust removing powder, abrasive powder, bleach, oil, acid or alkaline based products.

Do not spray air refresher, disinfector or other deodorising or cleaning solvent directly onto sensor window.

Troubleshooting

Problem	Cause	Solution
No water	Low battery; Sensor and power socket issues; No power supply; Faulty sensor	- Replace sensor or battery. - Check power supply or replace batteries. Replace sensor if necessary.
No water & indicator light off	Sensor and power socket issues; No power supply; Faulty sensor	- Check power supply or replace batteries. Replace sensor if necessary.
No water & light flashes every 3 sec	Poorly connected solenoid valve line or faulty solenoid valve component	- Replace solenoid valve component.
No water & light flashes 5 times every 6 sec	Obstacles or highly reflective objects in front of the sensor	- Move away obstacles or reflective objects.
Water won't stop & large flow	Check as described in previous steps	- Close water volume regulating valve, open valve cove

Exploded Diagram and Parts List



No.	Part	Description	Material	No.	Part	Description	Material
1.	672062-1	Embedded Box	SUS 304 SS	7.	672062D	Sensor Panel and Push Button	See breakout panel
2.	672062-2	Body	PPA Plastic	8.	67206-11	240V AC Power Adaptor	Electronic Hardware/ABS Plastic/ Epoxy Sealants
3.	67206-4	Inlet G1" Internal thread	SUS 304 SS	9.	679-121	6V DC Battery Box	ABS Plastic
4.	67206-8	Spring	SUS 304 SS	10.	CAT 67VB	Vacuum Breaker	See breakdown panel
5.	672062-9	Solenoid Valve	SUS 304 SS + POM Plastic + Rubber	11.	672062-15	Diaphragm	Rubber + POM
6.	672062-10	Frame	ABS Plastic	12	672062-16	Cover	PPA Plastic

*CAT 67206R

Optional remote to adjust sensing range and flush cycle