

stern

STERN ENGINEERING LTD.



ARTIS H

ELECTRONIC CISTERN FOR WC WITH
IRON FRAME

INSTALLATION AND MAINTENANCE GUIDE

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PRE INSTALLATION

ABOUT THE ARTIS H

A touch free electronic cistern valve system, complete with an iron frame for wall hung toilets.

- Dual flush infrared sensor activation
- Primary wave flush option
- Integral overflow pipe
- Install in brick walls, drywall and wood frame constructions

DUAL FLUSH (PROX OPERATION)

The Artis H sensor controls the flushing according to the time the user spent within the sensor range.

If the user spent less than one (1) minute within the sensor range a reduced 3 liters flush will take place.

If the user spent one (1) minute or more within the sensor range a full 6 liters flush will take place.

Note that flush volumes are adjustable using the remote control.

PRIMARY CLEANING FLUSH (WAVE OPERATION) - optional

Allows the user to activate a cleaning flush prior to use.

The 3 liter flush occurs when the user places their hand very close to the sensor.



Notes & Cautions:

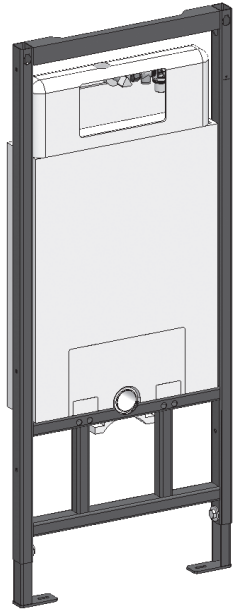
Before installing the Artis H, please fully read and understand this document, and verify the package contents.

It is the installer's responsibility to comply with relevant local codes and regulations.

Water and electrical supplies should be kept OFF throughout the entire installation.

PACK CONTENTS

PRE TILING PARTS



HEX NUT &
ANCHOR SET AND WASHER
(QTY: 4)



WASTE PIPE MOUNTING CLIP
(QTY: 1)



DUST COVER
(QTY: 1)



BACK WASTE PIPE SET & PLUG
(QTY: 1)
DUST COVER
(QTY: 1)



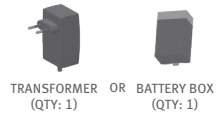
WALL ANCHORING SET:
THREADED ROD &
PLASTIC SLEEVE SET AND WASHER
(QTY: 2)



TOILET ANCHORING:
THREADED ROD &
PLASTIC SLEEVE SET AND WASHER
(QTY: 2)



POWER SUPPLY



STUD, NUT & CAPS SET
(QTY: 2)



PACK CONTENTS

POST TILING PARTS

TANK PROTECTIVE SLEEVE
AND COVER
(QTY: 1)



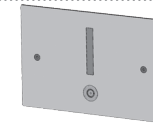
FRONT WASTE PIPE SET
(QTY: 2)



INLET PIPE
(QTY: 1)



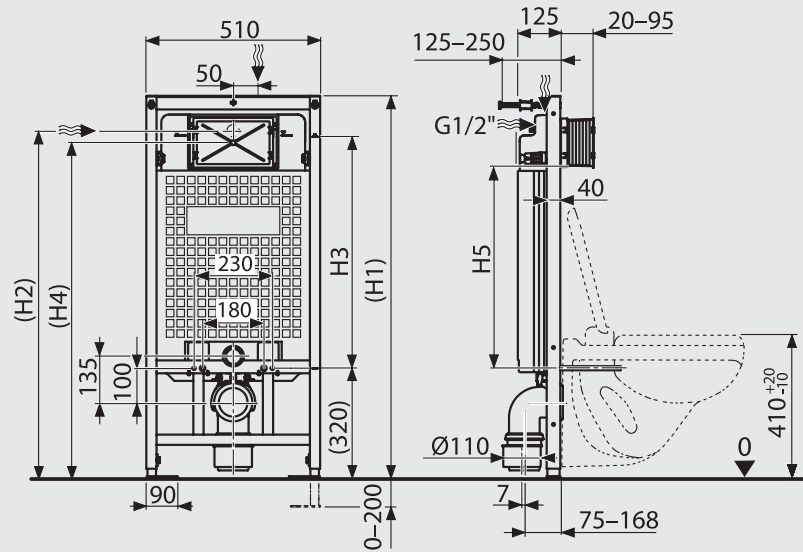
ARTIS H PANEL



ALLEN KEY
(QTY: 1)



TECHNICAL DATA



	(H1)	(H2)	H3	(H4)	H5
ARTIS H	1120	1025	680	980	593

ARTIS H

800430

Power supply 9V 0.5A Transformer / 9V battery

Recommended water pressure 1.0 - 8.0 bar

Preset sensor range 700-400 mm

INSTALLATION

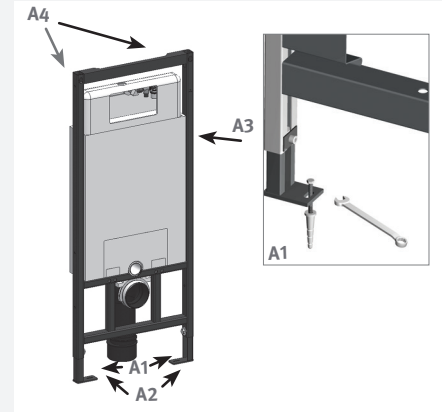
ARTIS H - CONCEALED CISTERN INSTALLATION

Artis Floor and Wall Mounting:

The installation of the toilet anchoring bolts height will be set according to the installed model only. Adjust the two legs (A1) of the Cistern Iron Frame to the desired height.

Note: To assure standard height of the toilet bowl, it is recommended that the height indicator (A3) is set to 1m (39.37") above the finished floor covering level.

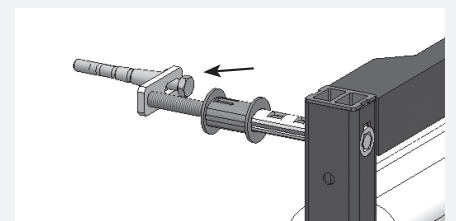
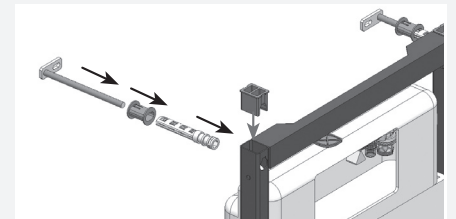
Mount the frame legs to the floor (A2).



1

Use the supplied Wall Brackets to fix the frame to the wall using the ANCHOR SET.

Note: the cistern should be installed at 125-250mm(4.9 - 9.8") away from the wall to allow accommodation of the drain piping.

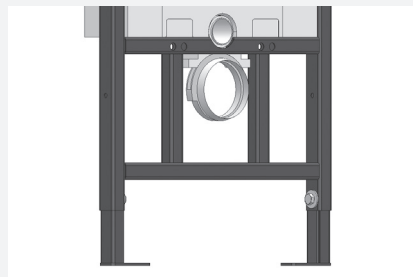


INSTALLATION

ARTIS - CONCEALED CISTERN INSTALLATION

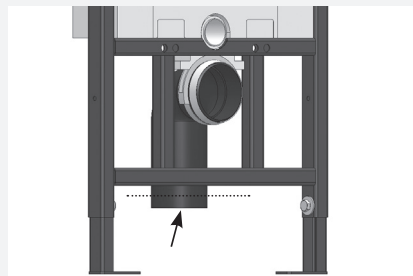
Pipe Assembly

Fasten the Waste Pipe mounting clip to the iron frame.

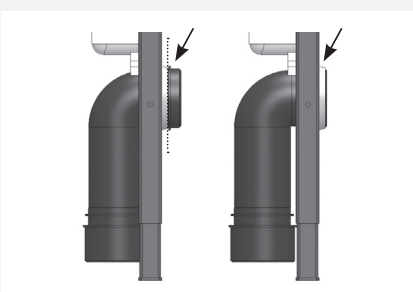


2

Cut the lower part of the Waste Pipe to the desired length.



Fasten the Waste Pipe set to the cistern's Iron Frame and connect it to the main drain line.



ARTIS H - CONCEALED CISTERN INSTALLATION

Toilet Support Rod Assembly

Use a screwdriver to install the two Bowl Support Threaded Rods (1) into the cistern frame. Use either the external or the internal pair of threaded holes (2) in the frame to fit the dimensions of the selected toilet bowl.

⚠ Caution: verify that the Bowl Support Threaded Rods are tightly fastened to their position and are not loose.

Place the Rod Cover Sleeves onto the Threaded Rods.

3

Plug the Dust Covers into the Flush Pipe and the Waste Pipe.

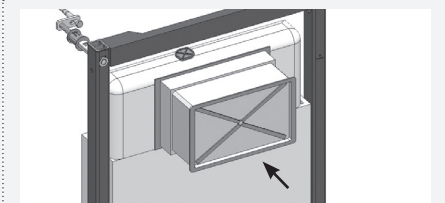
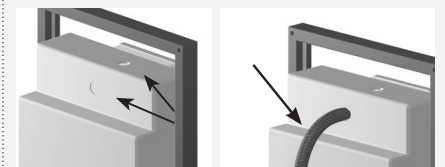
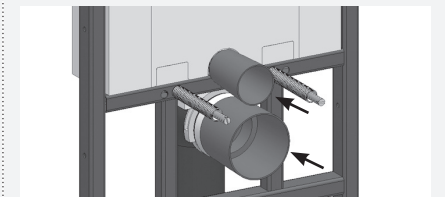
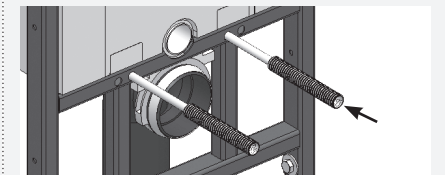
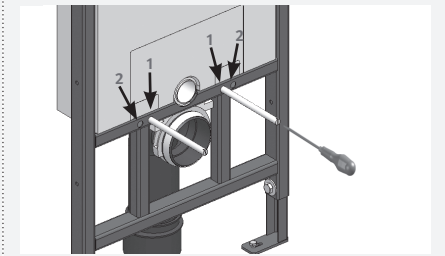
Optional if it is power supply operated. Electrical Infrastructure Assembly

Connect an Electrical Wire Guide Hose to one of the two holes in the tank. Use this hose to guide the electrical wires from the Artis H transformer to the cistern.

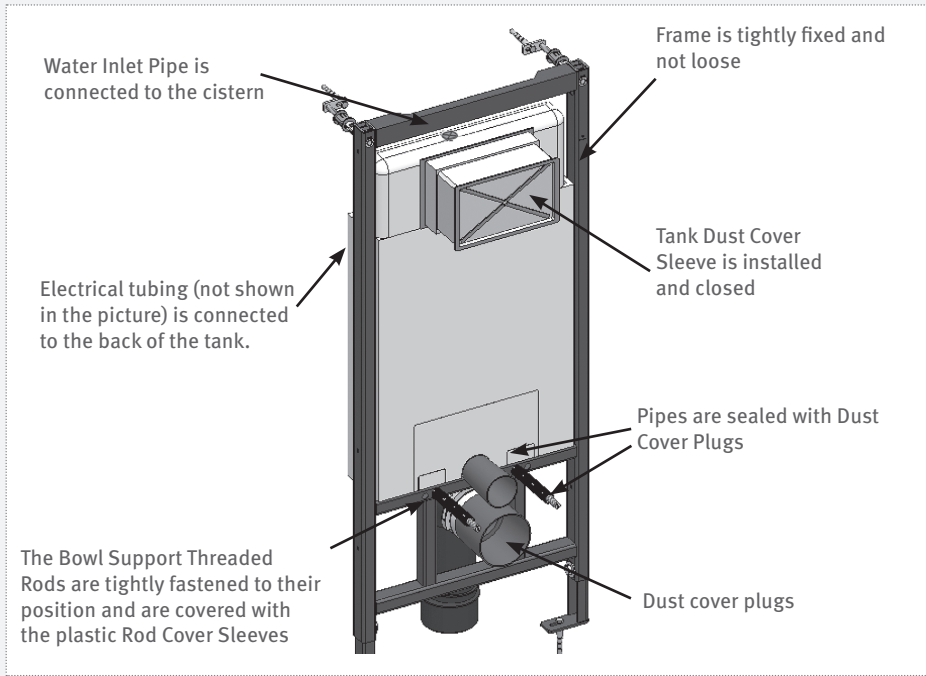
4

Install the Tank Protective Sleeve and close it up with its cover.

5



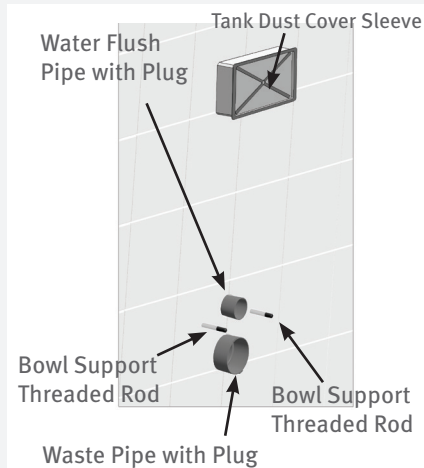
INSTALLATION



BOWL AND ACCESS PANEL INSTALLATION

This part of the installation should be performed after the wall and floor construction is completed.

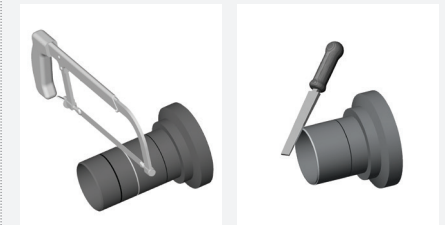
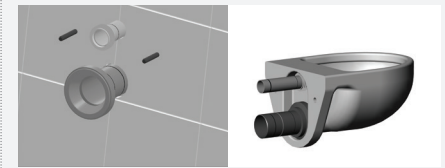
Use a standard wall-hung toilet bowl (not supplied with the Artis H)



INSTALLATION

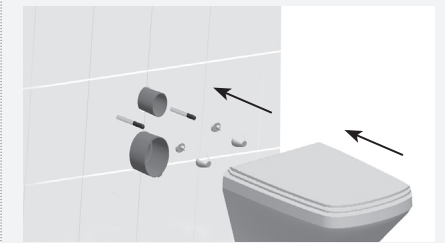
Toilet Bowl Installation
Remove the Waste Pipe and the Water Flush Pipe plugs.

6 Measure and Cut the adapters to the necessary length between the wall surface and the toilet bowl, to allow for maximum sealing.
Smooth any sharp edges to prevent damages to the pipes sealing rings).

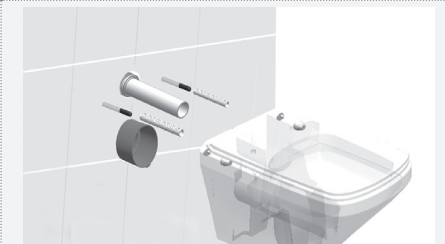


7 Cut the Rod Cover Sleeves to expose the threading at the end of the Rods ends.

Carefully install the Isolation Pad followed by the Toilet Bowl and tighten them as shown.
Cut the exposed part of the Isolation Pad.

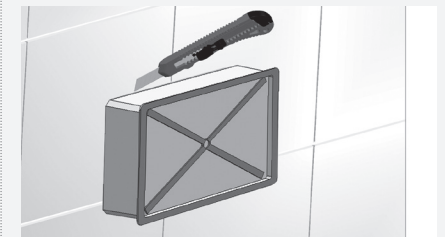


8 Scure the toilet bowl using the nut and provided nut and washer, cover it with caps



Access & Control Panel Installation

9 **⚠ Caution:** switch off the electrical and water supplies to the Cistern before proceeding with this part of the installation.
Cut the exposed portion of the Tank Protective Sleeve and dispose of it.



INSTALLATION

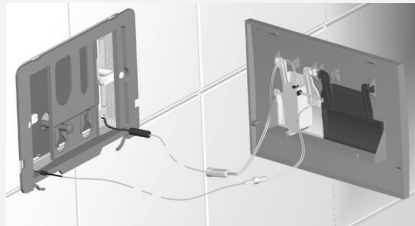
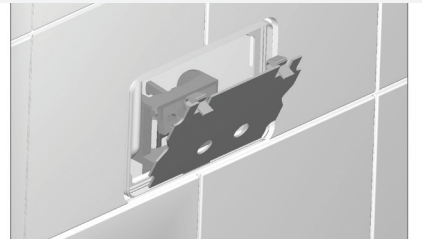
Artis panel installation

Open the Internal Panel to reveal the internal part of the cistern.

Turn OFF the Shut off valve

Note: there should be no water flow since the main water system is still switched off.

Note: if the Transformer Electrical Cable



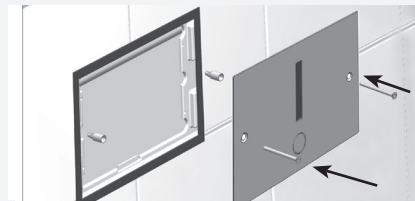
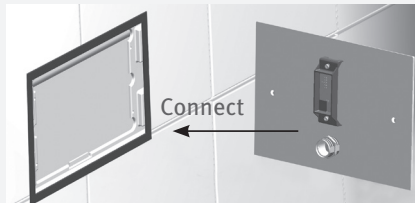
10

Connect the Transformer Electrical Wire connection wire and the Solenoid Connector to their corresponding connectors

CAUTION

Please make sure to connect the sensor to the power supply, use wire colors to assist you.

Secure the panel to its place using the screws, nuts and studs provided.

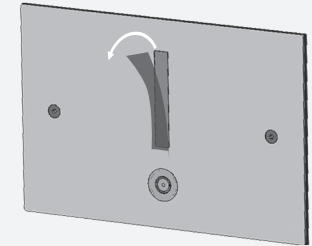


INSTALLATION

Important: Check that no objects are in front of the sensor besides the washbasin.

11

Now, remove the protecting sticker that covers the sensor.



12

Wait about 30 seconds before you step or place your hand within the sensor range. As an indication of the self adjustment, a LED in the sensor eye will flash continuously. The solenoid valve will open and close for 1 second as an indication that the ideal sensor range is set and the product is ready for use.



SETTINGS ADJUSTMENT



Adjusting the settings with the remote control

If necessary, the sensor settings can be adjusted as following:

Shut off the water supply. In order to adjust the sensor with the remote control, hold the remote control straight in front of the sensor in a distance of about 6-8" (15-20cm). Choose the function you want to adjust by pressing once on one of the function buttons. After pressing once on a specific function button, a quick flashing of the red light at the front of the sensor will occur. At this stage, you can change the setting by pressing the (+) or the (-) buttons, every push will increase or decrease one level. After finishing the adjustment, turn the water supply back on.



DETECTION RANGE: Only if necessary, use the remote control to adjust the sensor range as follows:

Press the RANGE button. Wait until a quick flashing of the blue light in the sensor eye is perceived. Then, press + to increase the one level and - to reduce it every push will increase or decrease one level.

NOTE: Once you have changed the detection range with the remote control, this distance will be remembered by the sensor, even if the power source is disconnected.

SETTINGS ADJUSTMENT



DELAY IN TIME: If required, the delay in time can also be modified as follows: Press the IN button. Wait until a quick flashing of the blue light in the sensor eye is perceived. Then, press + to increase the delay in time and - to reduce it.



DELAY OUT TIME: This button allows modifying the flushing start time after the user moves away from the product. A delay out time close to 0 will save more water. An increased delay out time will make the user experience more comfortable.

If required, the delay out time can be modified as follows: Press the OUT button. Wait until a quick flashing of the blue light in the sensor eye is perceived. Then, press + to increase the delay out time and - to reduce it.



TEMPORARY OFF FUNCTION: This function is ideal to perform any kind of activity in front of the sensor without operating the system (for example, cleaning).

The product will remain shut for 1 minute when this button is pressed once. To cancel this function and to return to normal operation press the On/Off button again or wait 1 minute.



RESET BUTTON: This function restores all the factory settings except for the sensor range. If required, press the Reset button and without releasing it, press the + button once.



SECURITY TIME: The Security time, prevents continuous flushing of water due to reflections or vandalism. By default, if the sensor is covered for more than 90 seconds the water flow will shut automatically. To resume regular operation any obstruction must be removed.

Press the SEC button. Wait until a quick flashing of the red light of the sensor eye is perceived. Then, press + to increase the security time and - to reduce it.



24 HOUR HYGIENE FLUSH: This model includes a 24 hours hygiene flush which is disabled. To activate the hygiene flush, press the clock button. Wait until a quick flashing of the blue light in the sensor eye is perceived. Then press + to activate the hygiene flush. To deactivate it again, press - to deactivate it.



COMFORT FLUSH: If your model includes a COMFORT FLUSH setting, it can be activated by pressing the flush button.

When the button is pressed, one blink of the blue light in the sensor eye is perceived. The pre-programmed flush cycle will take place then. The Comfort flush cannot be interrupted or deactivated by pressing any button until it is over.

FUNCTIONALITY TESTING

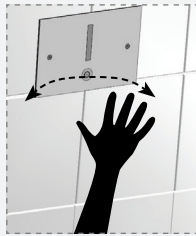
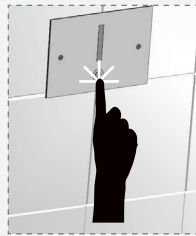
Manual and Touch Free Activation Testing

Turn on the electricity to the Artis (i.e. plug in the transformer).

Open the main water valve and wait until the cistern fills up.

Press the Override Handle to flush the water; then wait for the cistern to fill up again.

Pass your palm in front of the sensor and wait for at least 10 seconds to activate the primary flush



Walk away from the cistern (after staying in front of it for at least 5 seconds) to activate the touch free short or long flush.

The Artis H is now ready for use.

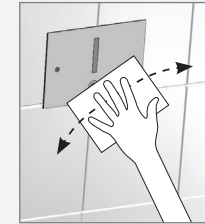


MAINTENANCE

Panel Cleaning

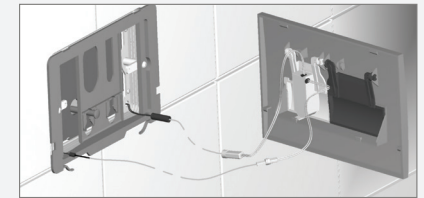
To prevent accumulation of dust and dirt on the Access & control Panel, gently wipe it clean with a damp cloth.

⚠ Caution: Do not use abrasive cleaners, polishes, solvent based cleaning agents, or alkali based cleaners.

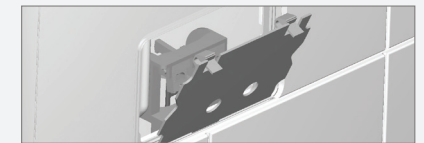


Artis H panel removal

1. Thread out the screws that hold the panel.
2. Disconnect the two electrical cables that are connected to it and lay the panel carefully aside.



unclip the cover to reveal the Internal Panel.
Snap out the Internal Panel to obtain access to the internal part of the tank.



MAINTENANCE & BATTERY REPLACEMENT

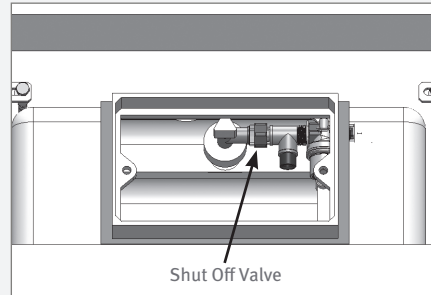
Shut Off Valve Filter Cleaning:

Close the Shut Off Valve from the main water inlet pipe.

Pull out the filter which is located inside valve's locking nut, using tweezers.

Use running water to rinse it.

Return the filter into the Shut Off Valve and connect it back to the main water inlet pipe.



Reactivating the cistern

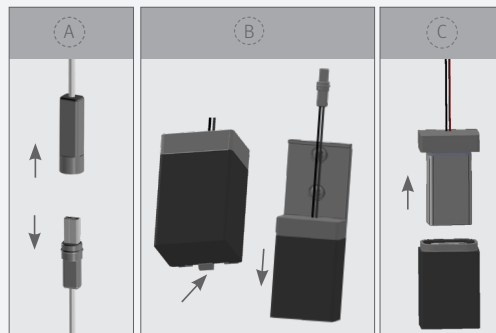
Use the installation instruction above (repeat step 8) to return the system to its original operating state.

When done, turn on the Water System and the electricity to the cistern, and test the system functionality (repeat step 9 above) to assure that both the manual and the hands-free activations are responding.

IMPORTANT: Disconnect the electricity and the water flow to the Cistern when performing filter cleaning.

Battery replacement:

- Disconnect the water proof connector between the battery box and the electronic unit.
- Pull out the battery box from the battery box holder by releasing the bottom clip.
- Pull out the battery cover.



LIMITED WARRANTY

Y. Stern Engineering Ltd. warrants that its electronic products will be free of defects in material and workmanship during normal use for two years from the date the product is purchased.

If a defect is found in normal use, Y. Stern Engineering Ltd. will, at its discretion, repair, provide a replacement part or product, or make appropriate adjustments. Damage caused by accident, misuse, or abuse is not covered by this warranty. Improper care and cleaning will void the warranty. Proof of purchase (original sales receipt) must be provided to Stern Engineering Ltd. with all warranty claims.

Stern Engineering Ltd is not responsible for labor charges, installation, or other incidental or consequential costs other than those noted above. In no event shall the liability of Stern Engineering Ltd. exceed the purchase price of the product.

If you believe that you have a warranty claim, contact your Stern Distributor, Dealer or Plumbing Contractor. Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the product, model number, the date the product was purchased, from whom the product was purchased and the installation date. Also include your original invoice.

Y. STERN ENGINEERING AND/OR SELLER DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty excludes product damage due to installation error, incorrect maintenance, wear and tear, battery, product abuse, or product misuse, whether performed by a contractor, service company, or the consumer. This warranty does not cover product damage caused by the following:

- Incorrect installation.
- Inversions of supply pipes.
- Pressures or temperatures exceeding recommended limits.
- Improper manipulation, tampering, bad or lapsed maintenance.
- Foreign bodies, dirt or scale introduced by the water supply or sanitizer tank.
- Use of the soap or sanitizer outside of viscosity specifications.
- Alteration of the original soap/foam/sanitizer dispenser components (including pipes).

Failure to adhere to the safety precautions and/or installation recommendations outlined in this Installation Guide will void the warranty.

SPARE PARTS

Seals & Screws Kit	07210193
Panel Kit & Sensor	07040338
Sensor Kit	07220467
Piezo button	07225356
Solenoid Valve Kit	07230017
Solenoid BS-Housing Kit	07231010
Battery Box (Battery version)	06530090
Transformer (Transformer version)	06522091

TROUBLESHOOTING

PROBLEM	INDICATION	CAUSE	SOLUTION
Cistern does not flush when the user places his hands within a short range of the sensor eye or when the user steps within the sensor range (prox operation).	The sensor's blue LED indicator DOES NOT flash (once).	Sensor range is not set properly.	Increase or decrease the sensor range.
		The sensor is picking up reflections from a mirror or another object. *For Prox operation only	Eliminate cause of reflection.
	The sensor's blue LED indicator flashes (once).	Connectors between the electronic unit and the solenoid valve are disconnected.	Connect the connectors of the electronic unit to the solenoid valve.
The solenoid valve plunger is stuck		Dismantle the solenoid valve by rotating it half a turn counterclockwise. Pull out the plunger and clean it. Check if the o-ring located inside the solenoid valve is intact, if not replace it.	
Cistern water tank does not fill up	-	Filters are clogged	Clean or replace the filters. See page 16.
		Main water shut off valve is turned off	Turn on the main water shut off valve.
		The float is stuck	Dismantle the float and clean it.
Dripping	-	The solenoid valve plunger gasket does not seal	Dismantle the solenoid valve by rotating it half a turn counterclockwise and pull out the mechanism. Check if the gasket sealing surface is clean, if not then clean it by removing any dirt or debris.
		The float mechanism does not work properly and water is draining through the overflow pipe.	Fix, adjust or replace the float mechanism.
Low Discharge	-	The float is set too low	Readjust the float height.
The Piezo element in the faucet cap does not work		Connectors between the electronic unit and the cap are disconnected or the Piezo element does not function.	Connect the electronic unit connector to the cap connector or replace the cap.

stern

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