NEPTUNE MEDICAL 1000T
TOUCH-FREE ELECTRONIC SHOWER CONTROL

SPECIFICATIONS

Touch-free electronic shower control. Operated by infrared Wave On/Off sensor. With a thermostatic mixer for water temperature adjustment for hot and cold water. Powered by a 9V battery or a 9V transformer. Battery version includes a low battery indicator. Non return valves, filters and Thermostop at 38° included. All components are located inside the body for added vandal protection. Flow cycle with auto shutoff after 120 seconds of use. Adjustable settings by remote control: sensor range, flow time, delay in, delay out, on-off and reset to factory settings.

OPERATION

Touch free electronic shower control. The shower would be activated once the user presents his hand within the sensor range and will stop when the hand is presented again or after a preset cycle of 120 sec.

APPLICATION

Touch-free shower control. Enables patients and medical personnel to use shower without touching the product. Prevents cross contamination. Helps washrooms to stay cleaner. Ideal for hospitals, laboratories, clinics and commercial kitchens. Combines an elegant design with high quality into a vandal resistant product. Helps washrooms to stay hygienic, safe and water saving.

PRODUCT AT A GLANCE

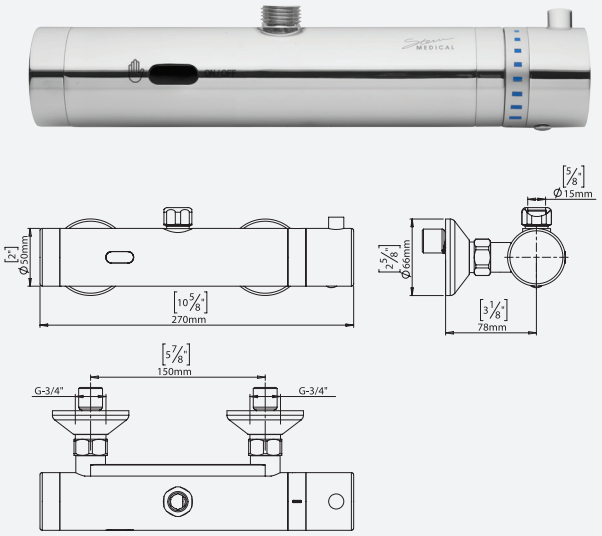
Installation	Exposed wall-mounted
Power Supply	Internal 9V battery
Operating pressure	0.5-8.0 bar / 7.0-116.0 PSI
Water supply	Hot and cold water
Water Temperature	Maximum 38°C

ORDERING INFORMATION

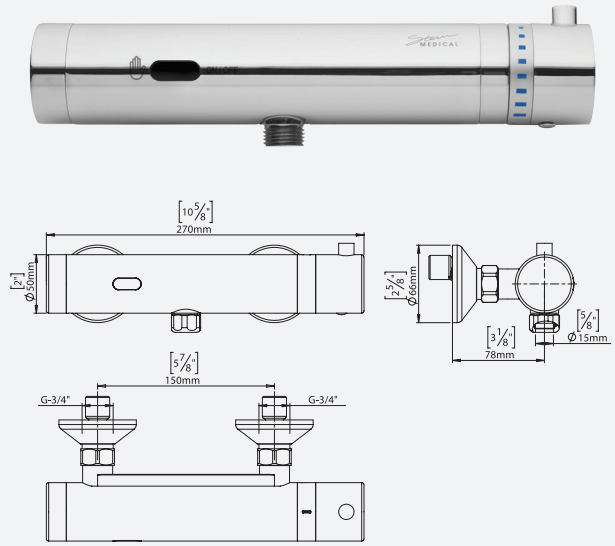
MODEL	CODE	POWER	ADDITIONAL FEATURES
NEPTUNE MEDICAL 1000T	610250	9V battery	Exposed installation Mixer for water temperature adjustment
NEPTUNE MEDICAL 1000T WITH BOTTOM OUTLET	610255		

OPTIONS

OPTION	CODE
Remote control	07100005



NEPTUNE MEDICAL 1000T



NEPTUNE MEDICAL 1000T WITH BOTTOM OUTLET

STERN ENGINEERING LTD.

ADVANTAGES

- MEDICAL
- LEED RATING
- 24 HOURS — OPTIONAL HYGIENE FLUSH
- GERM FREE
- ADJUSTABLE SETTINGS
- EASY TO INSTALL
- ADA DESIGNED

APPROVALS

ILGBC

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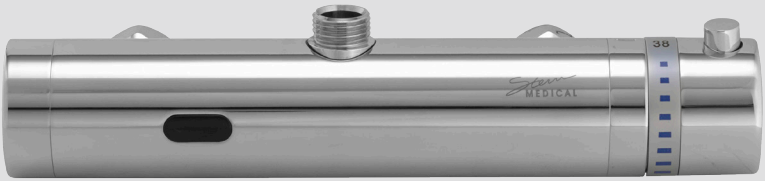

NEPTUNE MEDICAL 1000T

NEPTUNE MEDICAL 1000T | NEPTUNE MEDICAL 1000T BOTTOM OUTLET

INSTALLATION AND MAINTENANCE GUIDE

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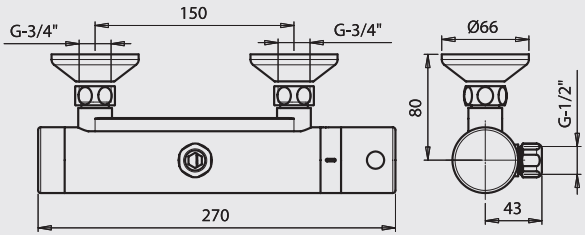
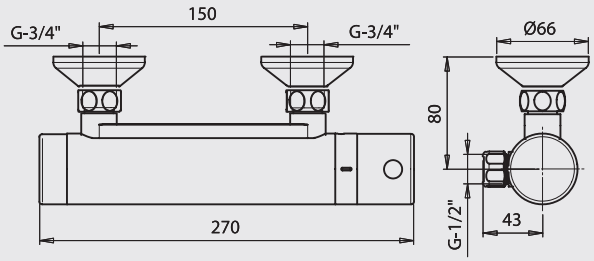
TECHNICAL DATA



NEPTUNE MEDICAL 1000 T	610250

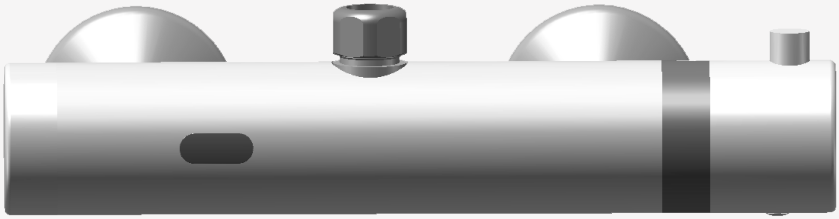


NEPTUNE MEDICAL 1000 T BOTTOM OUTLET	610255

Power supply	Internally mounted 9V battery
Minimum operating water pressure:	0.5 bar
Maximum operating water pressure:	8.0 bar
Max. Hot water supply:	65° C
Sensor range	45 cm - Adjustable
Security time	10 minutes
24 hs. hygiene / anti freeze flush:	Disabled. Can be enabled on site.

PACK CONTENTS

Familiarize yourself with the part names and confirm that the parts are included.

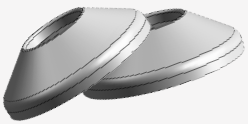


1 x Shower and attachments

1 x 2mm Allen key

2 x Eccentric unions

2 x Filters



2 x Fixation accessories (rosettes)

PRE-INSTALLATION INFO

CHECK CONTENTS

Separate all parts from the packaging and check each part with the “Pack contents” section.

Pay attention to the different models variations.

Make sure all parts are accounted for before discarding any packaging material.

If any parts are missing, do not attempt to install your electronic shower until you obtain the missing parts.

WARNINGS

Do not install facing a mirror or any other electronic system operated by an infrared sensor.

To prevent reflection problems, it is recommended to keep a minimum distance of 1.50 meters between the shower and any other objects.

PREPARATION FOR INSTALLATION

Flush water supply lines thoroughly before installing the shower. Do not allow dirt, Teflon tape or metal particles to enter the shower.

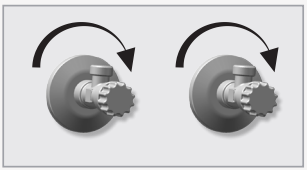
Shut off water supply.

IMPORTANT

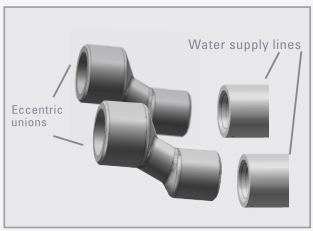
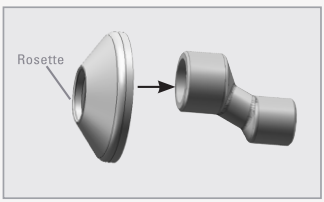
All plumbing is to be installed in accordance with applicable codes and regulations.

SHOWER INSTALLATION

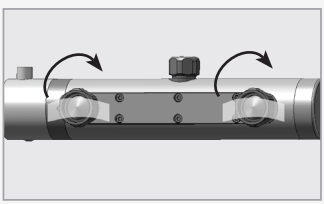
STEP 1 – INSTALLING THE SHOWER

1	Shut off the water supply.	

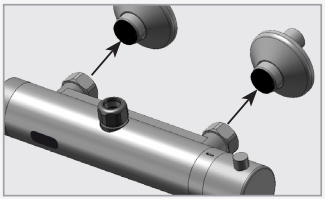
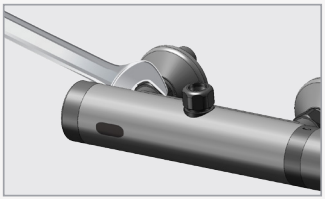
NOTE: The standard distance between the water supply pipes centers is 150 mm. Two eccentric unions are provided to allow variations from 130mm to 170mm.

2	Mount the eccentric unions on the water supply pipes.	
3	Apply the covering rosettes on the eccentric unions, and set the eccentric unions so that they correspond with the shower inlets.	

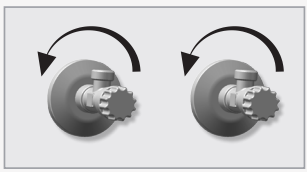
IMPORTANT: To make sure it will be installed in the right location, the filter is joined to the shower nuts with a clear adhesive tape.

4	Remove the clear adhesive tape holding the filters in place.	

SHOWER INSTALLATION

5	Proceed to mounting the shower on the eccentric unions.	
6	Tighten the nuts carefully with a 30mm wrench.	

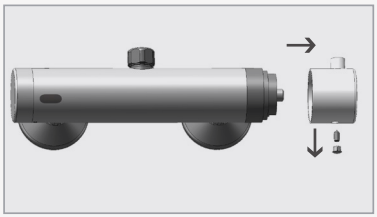
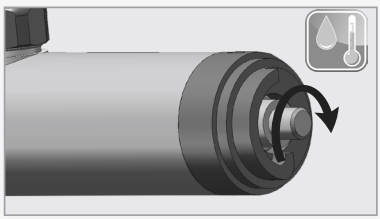
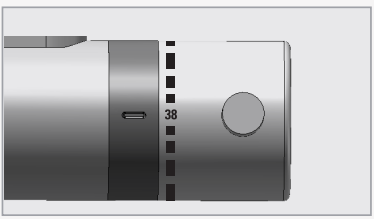
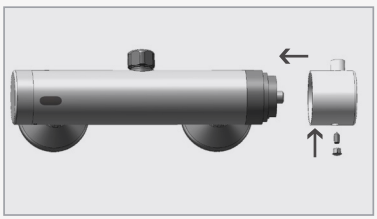
STEP 2 – CONNECTING THE WATER SUPPLY AND OPERATING THE SHOWER

1	Turn on the central water supply and the shut-off valves and check for leaks. Remove the protective sticker that covers the sensor and wait 10 seconds before activating the shower. IF THE RANGE IS UNSATISFACTORY, REFER TO THE SECTION TITLED “SETTING ADJUSTMENT”.	

ADJUSTING THE WATER TEMPERATURE

The shower has been factory calibrated to 38°C under ideal installation conditions.

Due to variations in site conditions, the mixed water temperature may need adjustments to match the site conditions and make sure that it is safe.

1	Unscrew the regulation knob screw and remove the regulation knob.	
2	Proceed to achive a38°C settings by turning the spindle and measuring the water temperature with a thermometer. NOTE: Make sure always to use a thermometer with proven accuracy.	
3	Assemble the regulation knob to the 38°C position. The anti scalding knob must correspond to the 38°C stop in the stop ring, without moving the spindle.	
4	Screw the regulation knob screw and tighten it.	

THE SHOWER IS NOW CALIBRATED ACCORDING TO THE SITE SPECIFIC CONDITIONS.

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 red light of the sensor eye is perceived. Then, press + to increase the one level and – to reduce it every push will increase or decrease one level.

SETTINGS ADJUSTMENT

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.	
	SECURITY TIME: The Security time, prevents continuous running of water due to reflections or vandalism. By default, if the sensor is covered for more than 10 minutes 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.
	DELAY IN TIME: It is recommended to change the delay in time for flush valves for urinals or toilets only. If required, the delay in time can also be modified in showers as follows: Press the IN button. Wait until a quick flashing of the red light of 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 water flow time after the user removes his hands from the shower. 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 red light of the sensor eye is perceived. Then, press + to increase the delay out 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 red light of the sensor eye is perceived. Then press + to activate the hygiene flush. To disable it again, press – to deactivate 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 shower will remain shut for 2 minutes when this button is pressed once. To cancel this function and to return to normal operation press the On/Off button again or wait 2 minutes.
	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.

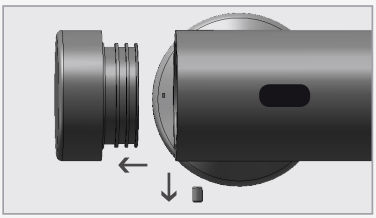
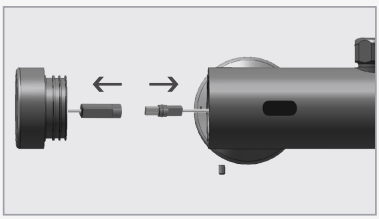
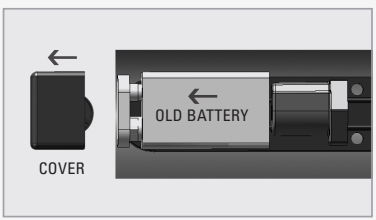
BATTERY REPLACEMENT

LOW BATTERY INDICATOR

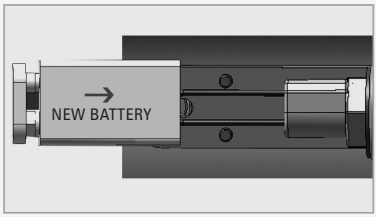
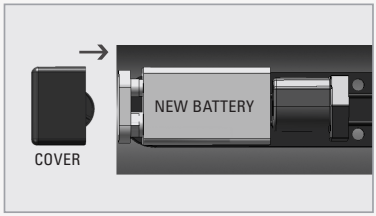
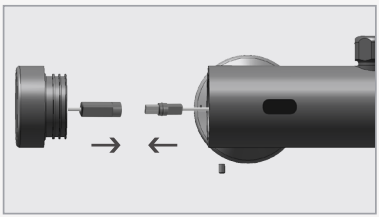
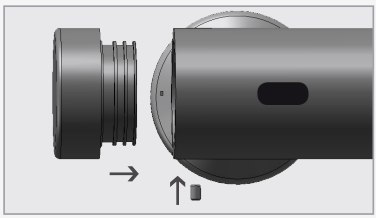
The Neptune Medical 1000 T has an advanced battery level management system consisting of 2 steps. In the first step, the battery still has enough power to open and close the solenoid valve and allows the solenoid valve to open.

In the second step the battery might not have enough power to open and close the solenoid valve. In this case, the battery level management system does not allow the solenoid valve to open. Instead of providing an opening and closing pulse, the systems provides two closing pulses.

BATTERY REPLACEMENT INSTRUCTIONS

1	Unscrew the M4X6 Allen screw on the shower left hand side and pull out the cap with the battery.	
2	Disconnect the connectors between the battery and cap.	
3	Remove the battery cover protection and take out the old battery.	

BATTERY REPLACEMENT

4	Replace the used battery with a new 9V battery. A Lithium battery is recommended.	
5	Put the battery protection cover back on.	
6	Reconnect the connectors between the battery and the cap.	
7	Place the cap back into place and tighten the Allen screw.	

- Do not allow moisture or water into the system while the battery is being replaced.
- The interior of the shower control must be fully dry before reassembling the parts. If it is not fully dry, carefully dry it.

IMPORTANT: Spent batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.

MAINTENANCE

FILTER CLEANING INSTRUCTIONS

The system is provided with two stainless steel filters preventing foreign particles to enter the lines. If the water flow has decreased, this may be because the filters are clogged. The filters can be cleaned as follows:

1. Shut-off the water shut off valve.
2. Disassemble the shower and remove the filters located between the shower nuts and the eccentric unions
3. Wash the filters under running water.
4. Reassemble the parts.
5. Make sure that there is no water leakage.

CARE AND CLEANING OF CHROME AND SPECIAL FINISHES

DO NOT use steel wool or cleansing agents containing alcohol, acid, abrasives, or the like. Use of any prohibited cleaning or maintenance products or substances could damage the surface of the shower. For surface cleaning of shower use ONLY soap and water, then wipe dry with clean cloth or towel. When cleaning bathroom tile, the showers should be protected from any splattering of harsh cleansers

SPARE PARTS LIST

SEALS AND SCREWS KIT	07210075
SOLENOID VALVE	07500065
SENSOR KIT	07220091
INLET NIPPLE KIT	07246001
THERMOSTATIC CARTRIDGE KIT	07240021
THERMOSTATIC HANDLE KIT	07110015
ADAPTER FOR HANDLE	07055067
COVER FOR BATTERY	06500001
NUT FOR THERMOSTAT	07055070
COVER KIT	07270088

WARRANTY

Y. Stern Engineering Ltd. warrants that its electronic faucets, flush valves and controls 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 shower, valve or control.

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, water composition, 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.

SERVICE CHECK LIST

PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the shower head:	1.Sensor flashes continuously when user's hands are within the sensor's range.	Low battery.	Replace battery.
	2. Red light in the sensor does not flash once when user's hands are within the sensor's range.	1. Range is too short.	Increase the range.
		2. Range is too long.	Decrease the range.
		3. Battery is completely used up	The battery must be replaced.
		4. Unit is in "Security Mode"*	
		5. Sensor is picking up reflections from the washbasin or another object.	Eliminate cause of reflection.
	3. Red light in the sensor flashes once when user's hands are within the sensor's range.	1. Connectors between the electronic unit and solenoid are disconnected.	Connect the electronic unit connectors to the solenoid.
		2. Check the solenoid valve.	Check the solenoid valve.
		4. The water supply pressure is higher than 8 bar.	Reduce the supply water pressure.
Water flow does not stop:	1. Sensor flashes once when user's hands are within the sensor's range.	Check the solenoid valve.	Check the solenoid valve.
	2. Red light in the sensor does not flash once when user's hands are within the sensor's range.	1. Sensor is dirty or covered	Clean or eliminate case of interference.
		2. Sensor is picking up reflections from mirror or another object.	Decrease the range or eliminate cause of reflection.

* "Security Mode": If the sensor is covered for more than 10 min. the shower will automatically shut off water flow.

To return to normal operation remove any blockage.

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