Since 1949
Acme Sanitary Ware Co. Ltd.
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Tel: 2388 7171 Fax: 2710 8012
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PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			Page	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	Stern (Israel) Completed cabinet including mirror, hand dryer, mixing valve, touch-free faucet and touch-free liquid soap dispenser in AC supply
Dimensions	L600 x W217 x H895 mm
Model	SWAR City
Code Number	280455
Supplier	Acme Sanitary Ware Co. Ltd
	Mr. Eric Wong/ Mr. Wilson Hung
Contact Tel/Fax	(852) 2388-7171 / (852) 2710-8012
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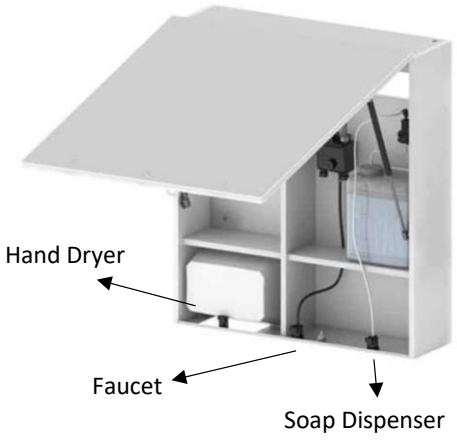
Illustration/ Drawing



SWAR City - Ref #280455
Sanitary cabinet with a lockable mirror for budget projects.

Includes high speed hand dryer, touch free faucet, touch free soap dispenser and LED pictograms for intuitive user guidance and decoration in one color. Delivered with remote controls to adjust soap dosage and customize the faucet settings.

- Eliminates messy, slippery floors and hand drying queues.
- Reduces the amount of labor for commercial facilities maintenance.
- Electrical connection supplied according to your region / needs.

SWAR - Soap, Water & Air Revolution
Stern's touchless tap, soap dispenser and high-speed hand dryer or paper dispenser behind a mirror at a lockable cabinet. Behind The Mirror Cabinet – Clean, Hygienic & Germs Free Bathroom Solution One of Stern's bathroom breakthroughs, the all-inclusive SWAR, Soap, Water and Air Revolution, a complete sanitary cabinet with a lockable mirror including a high-speed hand dryer, mixing valve, touch-free faucet, touch-free soap dispenser, and LED pictograms for user guidance, is now available in a variety of sizes and modules.

Application
Offers a complete installation solution for an IR faucet, soap dispenser and hand dryer behind the mirror. Helps washrooms stay clean and stylish and saves water. Ideal for shopping malls, sport facilities, entertainment centers, hotel, airports and transportation hubs.

Use
Touch free electronic faucet, soap dispenser and hand dryer. The products are automatically activated when the users place their hands in the sensor range and stops when the users remove their hands.

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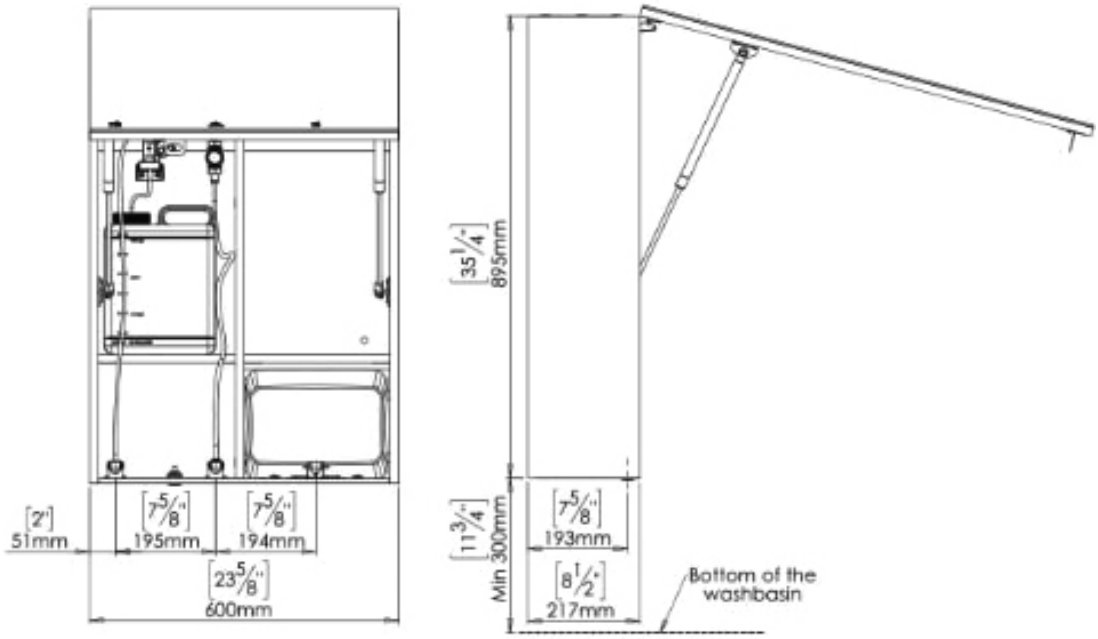

PRODUCT AT A GLANCE

SOAP	Soap	6 Liter soap tank The peristaltic pump enables the use of a wide range of liquid soap, detergent or antibacterial gel
	Viscosity	Since Stern's pump is peristaltic, it works with a big range of viscosities from 100 to up to 3,800 cP.
	Refill	Soap priming by remote control or by an easy-to-use manual refill button
WATER	Operating pressure	0.5-8.0 bar / 7.0-116.0 PSI
	Water supply	Hot and cold water
	Water flow	1 GPM / 3.78 LPM - PCA Stream; 0.5 GPM / 1.89 LPM – PCA Spray; 0.35 GPM / 1.32 LPM – PCA SPRAY; 1.32 GPM / 5 LPM - PCA Stream
	Water temperature	One inlet with optional thermostatic mixing valve.
	Security time	Auto shutoff after 90 seconds. Adjustable by remote control
AIR	Operating voltage	120/240 VAC, 50/60 HZ, 1.0 kW
	Output warm air volume	42-60 CFM (71-102 m3/h)
	Drying time	less than 15 seconds
	Stand by power	less than 0.5W
	Sensor range	standard 6" (152mm +/- 20mm)
	Timing protection	60 seconds auto shut off

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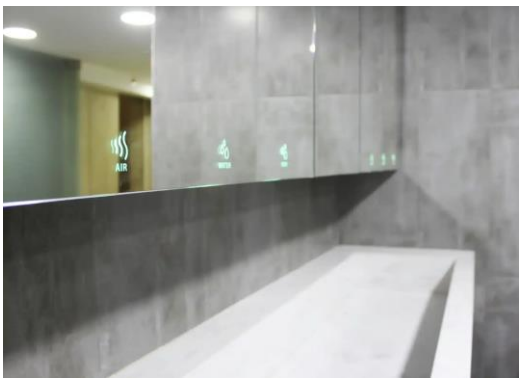
stern

	Stern's SWAR City
	
Water Temperature	One inlet with optional thermostatic mixing valve.
Length	600 mm * Bespoke sizes available upon request
Material	Available in White or Black
Mirror & indicative icons	4 mm thick glass mirror with full MDF inside. Intuitive illuminated LED pictograms for intuitive user's guide and decoration. White LED illuminated icons.
Soap tank capacity.	6 litres tank automatic soap dispenser. Soap can be primed with the provided remote control or with the individual button at the pump. Multifeed option available. 1 tank can be used to serve up to 6 SWAR cabinets.
Soap viscosity	Since Stern's pump is peristaltic, it works with a big range of viscosities from 100 to up to 3,800 mPa.s.
Special features included	N-A
Optional features and accessories	Thermostatic mixing valve



ADVANTAGES

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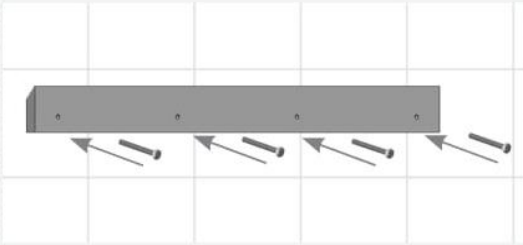
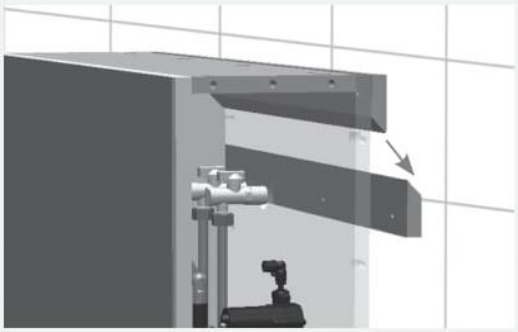
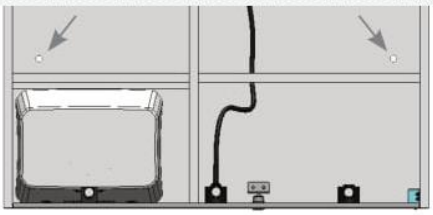
INSTALLATION

Note: Before installing the SWAR, flush water lines and shut off all valves.

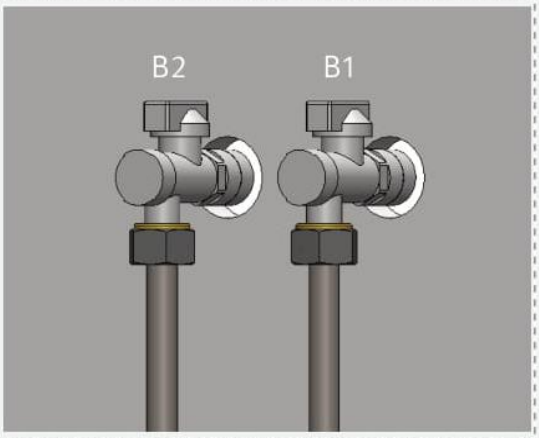
STEP 1 – WALL MOUNTING

1	Firmly attach the wall support to the wall. Note: Ensure the wall support is installed leveled. Screws not uncluded.	
2	Place the SWAR unit on the support. Make sure to pass the electrical wire(s) and valves through the holes in the SWAR.	
3	Secure the SWAR cabinet to the wall by installing the masonry anchors and screws provided.	

STEP 2 –CONNECT THE WATER SYSTEM

For SWAR with cold water option:
connect the water system to inlet B1

For SWAR with premixed water option:
connect hot water system to B1 and cold water system to B2



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INSTALLATION

Notes:
Thoroughly flush the water supply lines before connecting them to the SWAR.
Do not allow dirt, Teflon tape or metal particles to enter the faucet.
Shut off water supply when done.

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

For installation of the SWAR hand dryer system, follow the directions below.

STEP 3 – POWERING THE HAND DRYER

Warning

Warning: *Work on electrical installations may only be carried out by certified electricians or by instructed persons working under the guidance and supervision of a certified electrician, in accordance with local regulations.*

Important Note: *SWAR is available only as a 110 volt model or a 220 volt model.*

To power the hand dryer, a certified electrician must remove the dryer unit cover and hardwire it to the main power line.

To remove the dryer unit cover, remove the two Allen screws with the included Allen key.

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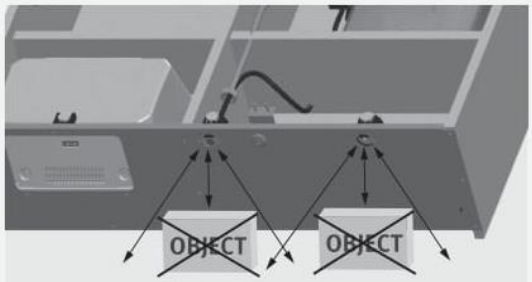
INSTALLATION

STEP 4 – POWERING THE SYSTEM

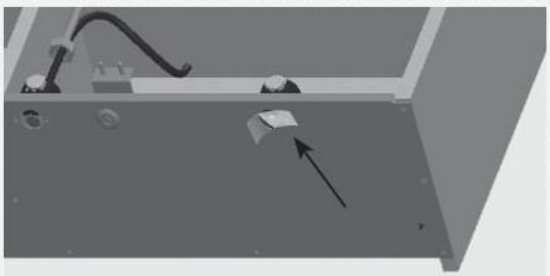
⚠ ***Important Note:*** *The SWAR's sensors are self-adjusting; therefore, the ideal sensor range for a given location will be set automatically.*

Before proceeding, check that there are no foreign objects in front of the sensors withing 300 mm.

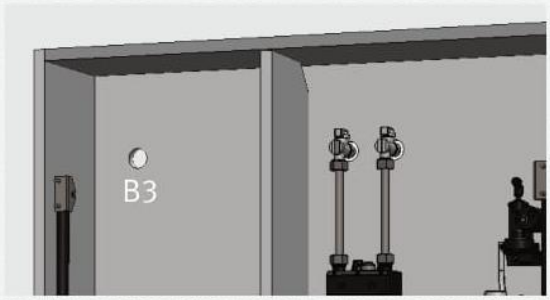


1. Remove the protective stickers that cover the sensors, both on the Faucet and on the Soap Dispenser.

   Re-open the water shut-off valves.



2. To power the faucet and the soap dispenser, run the end of the transformer cord through hole B3 then connect it to the power splitter. Plug the transformer into the main power line.



3. Wait about 10 seconds for the Faucet and the Soap Dispenser sensors to complete their self-adjustment.

4. Put your hands under the Faucet and the Soap Dispenser and verify their functionality.

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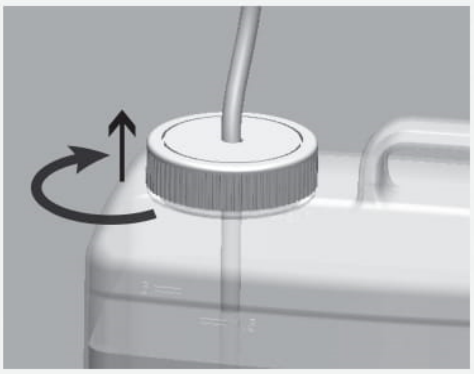
FILLING THE SOAP TANK

STEP 5– FILLING THE SOAP TANK

1. Unscrew the cover of the soap bottle and fill with liquid soap.



2. Place the cover back and screw it closed, making sure the hose extends to the bottom of the soap bottle.

3. Press the refill button located on the top of the pump assembly until soap starts coming out of the soap dispenser spout.

   This operation can also be done using the soap dispenser remote control Refill function.

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TROUBLESHOOTING - FAUCET

PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the faucet.	LED in the sensor does not flash (once) when user's hands are within the sensor's range.	Range is too short.	Increase the range.
		Range is too long.	Decrease the range.
		Unit is in "Security Mode": If the sensor is covered for more than 90 sec. the faucet will automatically shut off water flow.	To return to normal operating mode remove any blockage.
		Sensor is picking up reflections from the washbasin or another object.	Eliminate cause of reflection.
	LED in the sensor flashes once when user's hands are within the sensor's range.	Debris or scale in solenoid.	Unscrew the solenoid, pull out the plunger and the spring from the solenoid and clean them. Use a scale remover material if needed. When replacing the plunger, please make sure that the spring is in vertical position.
		The central orifice in the diaphragm is plugged or the diaphragm is torn.	Clean the orifice or replace diaphragm.
		The water supply pressure is higher than 8 bar (116 PSI).	Reduce the supply water pressure or install a pressure reducer valve.
		The water supply pressure is under 8 bars and yet the pressure in the faucet's body is higher. This situation could be caused by a sudden increase in the water supply pressure that the backcheck prevents from dropping, even after water supply pressure drops under 8 bars.	Shut off water supply and unscrew one of the flexible pipes in order to reduce the pressure that is blocking the product.
Water flow from spout does not stop.	Sensor flashes once when user's hands are within the sensor's range.	Debris or scale in diaphragm.	Clean the orifice or replace diaphragm.
	LED in the sensor does not flash once when user's hands are within the sensor's range.	Sensor is dirty or covered. (In this case, the water flow will stop anyway after 90 seconds due to the security time out).	Clean or eliminate cause of interference.
		Sensor is picking up reflections from the washbasin or another object.	Decrease the range or eliminate cause of reflection.
Water flow diminished.		Filter or aerator is clogged.	Remove, clean re-install.

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TROUBLESHOOTING - SOAP DISPENSER

PROBLEM	INDICATOR	CAUSE	SOLUTION
No soap coming out of the spout	LED in the sensor flashes (once) and the motor is operating.	Soap has run low or completely out.	Refer to page 8 and refill the soap tank.
		The soap tank has been filled but soap has not reached the spout.	Press the refill button located at the bottom of the pump until soap starts to come out of the spout again.
		The connectors between the motor and the power source are not connected properly.	Connect the connectors properly so that the white o-ring is not visible.
	LED in the sensor does not flash (once) when user's hands are within the sensor's range.	Sensor is picking up reflections from the washbasin or another object.	Eliminate cause of reflection.
		Connectors between the electronic unit and the pump assembly\transformer are disconnected or not properly connected.	Connect the electronic unit connectors to the pump assembly and transformer.
	LED flashes (once) and the motor operates.	Soap solidification at the pipe.	Fill the bottle with hot water at 50/60C and run the pump constantly.
Soap coming out of the spout does not stop	-	The black connectors between the pump assembly and soap dispenser are not connected properly.	Connect the connectors properly so that the white o-ring is not visible.

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TROUBLESHOOTING - HAND DRYER

PROBLEM	CORRECTIVE ACTIONS
If the dryer will not run	HAZARD: BE SURE TO TAKE SUITABLE PRECAUTIONS TO AVOID SHOCK. First ensure that the breaker supplying the power to the dryer is operational. If it is, disconnect the power and remove the dryer cover. Reconnect the power and check for voltage at the terminal block. Verify that the connections are made properly.
The dryer cycles be itself or runs constantly	Ensure that there is no obstruction on or infront of the IR sensor. Clean any dirt or debris off the sensor lens.
The dryer makes a loud noise and does not run for a complete cycle	Ensure that the supply Voltage is correct. The dryer will make a loud humming noise if the input Voltage is too high. Check that the voltage requirement on unit rating label and correct the supply if required.
The dryer runs but air stream is low pressure and/or low velocity	Ensure that the supply Voltage is correct. Dryer will run weakly if the input Voltage is to low. Check that the voltage requirement on unit rating label and correct the supply if required.
The IR sensor only “sees” close range object	Ensure that there is no obstruction on or infront of the IR sensor. Clean any dirt or debris off the sensor lens.
The air stream is low pressure and velocity	Check the output nozzle for obstructions. If none are present, disconnect the power. Remove the dryer cover. Remove any dust/lint buildup from intake vent slots.