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SANITARY WARE SPECIFICATION SHEET

<p>Item Descriptions</p>	<p>Stern (Israel) "Lotus Topfill SD" Chrome plated liquid soap dispenser with built-in sensor and soap level indicator in AC Supply with 5m wire AC 110-240 Vac 50/60Hz to 12V 2.5A IP68 waterproof switching transformer</p>	<p>Illustration/ Drawing</p>
<p>Model</p>	<p>Lotus Topfill Automatic Soap Dispenser E</p>	
<p>Code Number</p>	<p>230850</p>	
<p>Finish</p>	<p>Chrome Plated</p>	
<p>Material</p>	<p>Brass</p>	
<p>Supplier</p>	<p>Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen</p>	
<p>Contact Tel/Fax</p>	<p>(852) 2388-7171 / (852) 2710-8012</p>	
<p>E-mail</p>	<p>acme@acmesanitary.com.hk</p>	
<p>Website</p>	<p>www.acmesanitary.com.hk</p>	
<p>Lotus "Topfill" E, Ref # 230850</p> <p>Lotus Automatic Soap Dispenser, Lotus "Topfill" E, "Touch-Free" deck mounted automatic soap dispenser with a soap level indicator incorporated in the dispenser. The soap dispenser cap can be released, allowing you fill your soap tank with ease. Includes a 2 liter tank, that uses non-proprietary soap within the recommended viscosity range for significant cost-in-use savings.</p> <ul style="list-style-type: none"> · 100% brass body and cover construction. Available in the following finishes: Chrome Plated, PVD Brushed nickel and Matt Black. · Matching touch-free faucet available in a matching finish. · Dosage and sensor range are adjustable with remote control. · Refill operation can be done by pushing a manual button or using the optional remote control. · Peristaltic pump that prevents back flow and clogging. · The following functions can be performed by using Stern remote control: Soap quantity selection, Refill the soap tank, temporary off, coming back to factory settings. · Lotus Touchless Soap Dispenser – Lotus Commercial Soap Dispenser 		
<p>PRODUCT AT A GLANCE</p>		
Installation	Deck mounted	
Power Supply	12V transformer	
Soap Tank Capacity	2 Liters / 0.52 Gallons	
Soap Dose	Default setting: 1.2-1.6 cc Adjustable by remote control in accordance to the selected soap	
Soap Viscosity	100-3800 cPs (for liquid soap) Up TO 100 cPs (for foam soap)	
Refill	Soap priming operated by remote control or by easy-to-use manual refill button	

* All information of the above is for the reference only. No prior notice is made if any changes.



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Touchless automatic soap dispenser operated by infrared sensor.

The soap dispenser automatically activates when users place their hands within sensor range, providing a measured amount of soap (adjustable by remote control).

If the users remove the hand before the full amount is dispensed, the soap dispenser immediately stops the flow.

When the soap tank is full there should be a flashing green LED light on the level indicator in the base of the dispenser. When the level indicator shows red, the tank is empty.

Operation

Touch free electronic Soap dispenser operated by infrared sensor. The Soap dispenser automatically activates when users place their hands within sensor range, providing a measured amount of soap (adjustable by remote control). If the user removes the hand before the full amount is dispensed, the Soap dispenser immediately stops the flow. The level indicator at the dispenser base shows green when tank is full, orange when level is low and red when a refill is needed.

Application

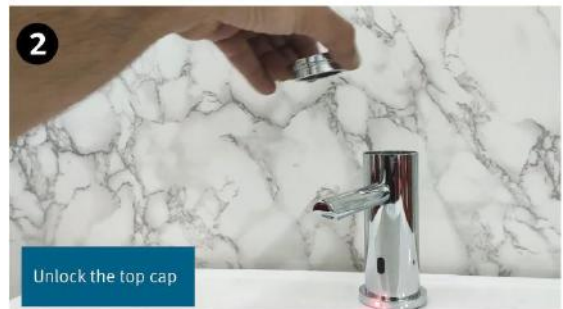
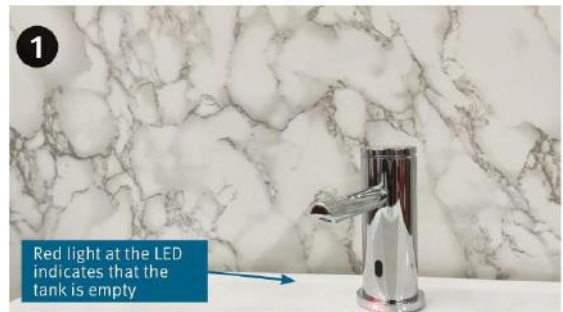
Touch-free electronic soap dispenser with dripless automatic shutoff and level indicator is the ideal solution to reduce maintenance costs in heavy usage areas with no need to open the cabinet to check soap level. Combined with the touch-free electronic faucet, it creates a germ-free automated environment. Ideal for stadiums, train and bus stations and highway rest stops.

Use

Touchless commercial soap dispenser. The soap dispenser is activated automatically when the users bring their hands within the sensor range and stops when the users remove their hands.

ORDERING INFORMATION	
MODEL	CODE
Lotus Topfill E	230850
Lotus Topfill FE (Foam)	230860

OPTIONS	
OPTION	CODE
Remote control	07100008



PRE-INSTALLATION INFO

Check contents

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

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

If any parts are missing, do not attempt to install your touch free soap dispenser until you obtain the missing parts.

Warnings

Do not install the system 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 soap dispenser and any other objects.

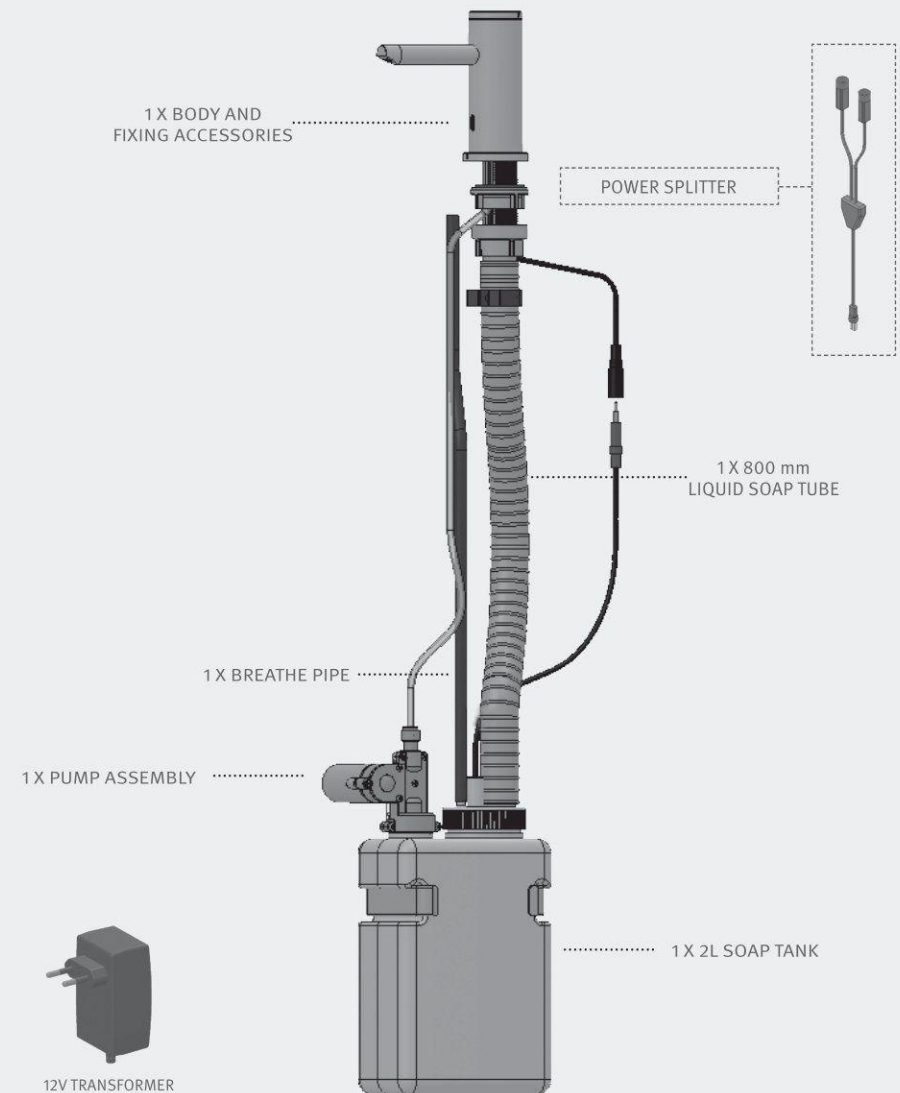
IMPORTANT: Keep in mind that when using the faucet installed next to the soap dispenser, the user hands should not interfere with the soap dispenser sensor detection area.

STERN liquid soap dispensers, with proper care, will provide long term trouble free service. Quality liquid soap of recommended viscosity and pH levels are the main factors for smooth operation of your dispenser. If needed, use a viscometer to verify the viscosity of your soap to ensure maximum benefit. The recommended range for liquid soap viscosity is 100-3800 cPs. Thicker liquid soap flows slower and inhibits the pump valve, causing strain and damage.

STERN liquid soap dispensers are suitable for use with any generic liquid soap of the correct viscosity and pH. The pH level of all soap used in STERN liquid soap dispensers should be between 6.5 to 8.5. Lower levels will cause corrosion to the metal dispenser and even the rubber and plastic components. Higher pH levels will cause swelling to rubber parts and degradation of plastic components over time.

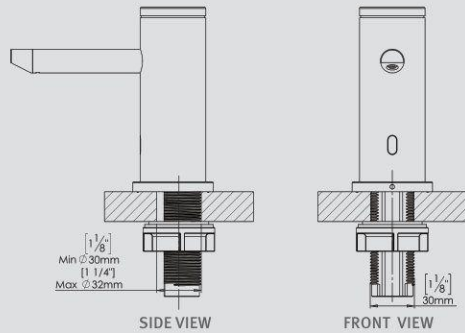
PACK CONTENTS

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



INSTALLATION

RECOMMENDED HOLE SIZE

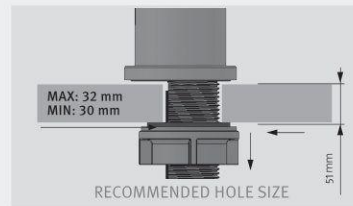


Keep a distance (DISTANCE = 210 mm / 9-3/4") from the wall to prevent difficulty, while opening cap to fill soap.

STEP 1 – REMOVE ALL MOUNTING HARDWARE

Drill a hole in the deck or lavatory according to the recommended hole size.

Place the tube connector nut on the shank in the correct position. Thread the tube connector nut to the shank until it is secure. Make sure that the black gasket is located inside. This can be done by hand, no tools are necessary.

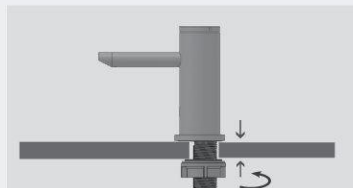


STEP 2 – INSTALLING THE SOAP DISPENSER

1

Place the soap dispenser body along with the bottom ring into the hole in the deck or lavatory.

Slide the gasket, disk and nut over the soap dispenser body nipple and secure it.



2

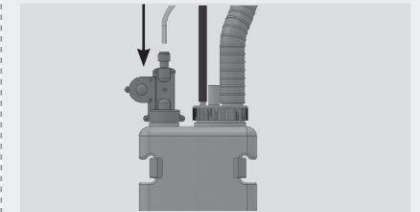
Attach the Soap Dispenser to the tube and rotate the dispenser until its secure. Do not forget to slide the gasket in between the dispenser and tube.



INSTALLATION

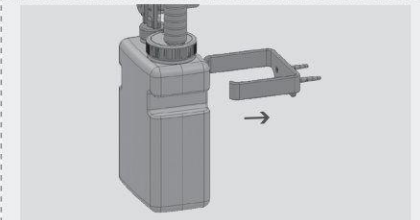
3

Connect the soap pipe from the dispenser body into the quick connection fitting of the pump.



4

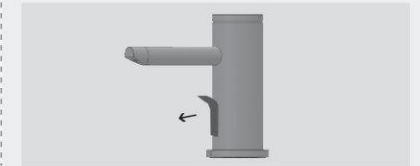
Fix the tank with bottle support to the desired location.



STEP 3 – CONNECTING THE POWER SOURCE

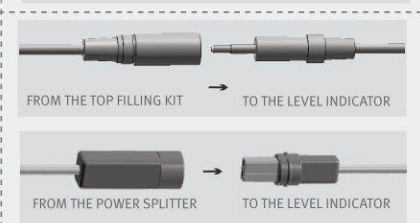
1

Remove the protective sticker covering the sensor. Keep away from the sensor range.



2

Connect the 4-contacts connector to the matching connector from the top filling mechanism. Then, connect the power connector to the matching connector of the power splitter.



IMPORTANT: the 4 contacts connector should be connected properly so that the white o-ring is not visible and a clicking sound is heard.

PAY ATTENTION: If the 4 contacts connectors is not connected properly, the motor will work continuously.

3

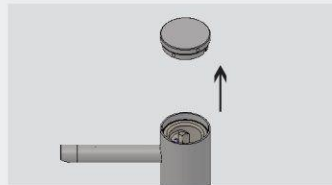
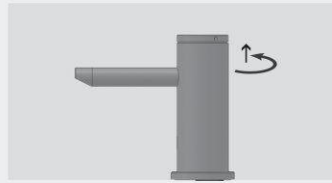
Wait about 10 seconds before you put your hands within the sensor range.



FILLING THE SOAP TANK

1

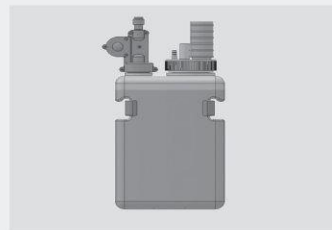
Release the cap from the soap dispenser by turning it clockwise, until there is a click. Proceed by lifting the cap from the Soap Dispenser and filling the soap tank with the appropriate amount of liquid soap through the hole. Once you begin filling the soap tank, the LED light on the level indicator will switch from red to green. Once you reach the appropriate soap level amount, the green LED light will start to flash for a few seconds, and then stop, signaling a full soap tank.



2

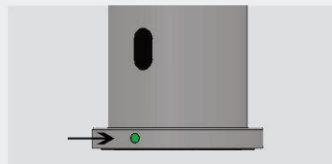
Fill the soap tank with liquid soap until it is full.

Warning: Do NOT OverFill



3

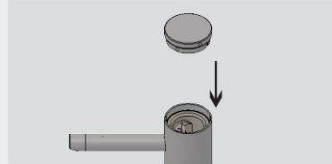
When the soap tank is full there should be a flashing green LED light on the level indicator in the base of the dispenser. When the level indicator shows red, the tank is empty.



4

Return the cap to the soap dispenser and rotate counter clockwise until there is a click.

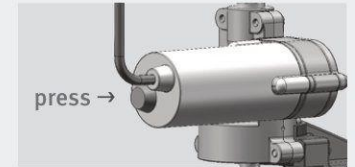
- 1) Keep in mind to clear the cap area from all soap particles, before returning the cap .
- 2) To avoid difficulty in releasing the cap again afterwards DO NOT seal the cap on any soap particles.



FILLING THE SOAP TANK

5

To prime the soap, you have two options, you can press and hold the refill button located at the back of the pump assembly until soap is dispensed from the soap dispenser spout.



6

Alternately, press the FILL button on the soap or foam dispenser remote control (if available).



MAINTENANCE

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 soap dispenser. For surface cleaning use ONLY soap and water, then wipe dry with a clean cloth or towel. When cleaning bathroom tiles, the soap dispenser should be protected from any splattering of harsh cleansers.

Disassemble of the soap pipe from the pump

The soap pipe can be disconnected from the soap pump by a simple slide & pull action. The sliding ring of the quick connection fixation nipple on the pump should be pulled down. It releases the open end of the soap pipe which can then be easily pulled out.

Clean the soap tank

Clean out the tank prior to refill by flushing warm water through the hoses and pump until clean water is released from the spout. TIP: Keeping a spare tank will enable this process to be completed in a speedy and hygienic manner with minimal downtime.

SETTINGS ADJUSTMENT WITH A REMOTE CONTROL

If desired, use the remote control to adjust the soap dispenser settings.
Hold the remote control straight in front of the sensor in a distance of about 4-6"
(10-15cm).

Attention: Holding the soap dispenser remote control out of the recommended range (too close or too far) may interfere with the remote activation.

Choose the function you want to adjust by pressing on the function button as following:

1-SOAP QUANTITY

The 1-4 drop keys allow the user to choose the desired soap quantity. *

① 0.7 to 0.9 ② 1.2 to 1.6 ③ 1.6 to 1.9 ④ 2.1 to 2.3 *

Indication: continues blink of the LED in the sensor eye.

* The exact soap dosage depends on the soap viscosity.

2-ADJ

This function allows getting back to the soap quantity factory settings.

Indication: 2 blinks of the LED in the sensor eye.

3-TEMPORARY OFF FUNCTION

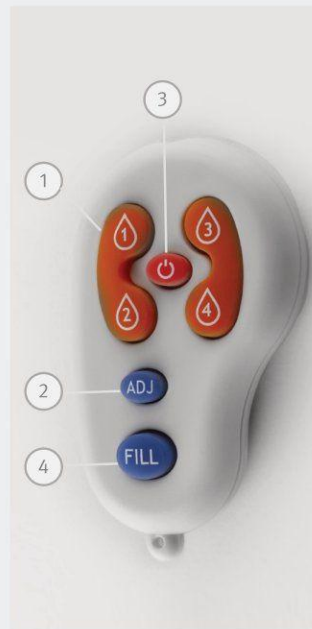
This function is ideal to perform any kind of activity in front of the sensor without operating the system (for example, cleaning). The soap dispenser will remain shut for one minute when this button is pressed once. To cancel this function and to return to normal operation press the On/Off button again or wait one minute.

Indication: OFF – 2 fast blinks, ON – 4 fast blinks


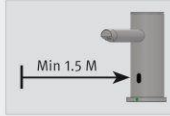



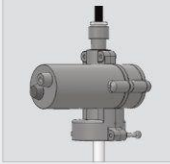


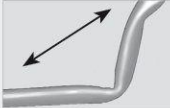
4-FILL THE SOAP TANK

Once the soap tank has been filled \ re-filled press the FILL button. The pump would work for one minute in order for the soap to start coming out of the soap dispenser spout.



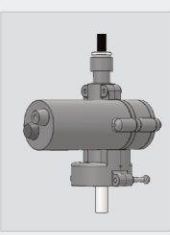
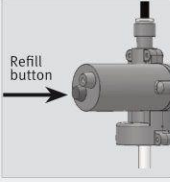

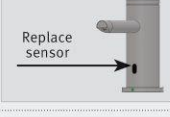

To stop this activity press the FILL button again. If the soap has not started coming out of the spout, press the Fill button again.



TROUBLESHOOTING

Problem	Indicator	Cause	Solution	Illustration
False activation: Soap dispensing	Continuous discharge from the nozzle	AUX connector not fully inserted	The connector should be inserted fully until white o-ring is not visible. Remove the o-ring if necessary.	
	Random discharge from the nozzle	Reflection issue from other object	Eliminate any cause of reflection and if necessary use appropriate remote control to shorten detection range.	
	Soap discharging from pump housing	Damaged pump due to high viscosity or debris in pipes	Replace the Pump. Rinse warm water through the pipe and the body of the soap dispenser all the way to the nozzle.	
Soap not dispensing	Pump is making sounds when sensor is activated	Soap tank is empty	Fill with soap with correct viscosity (100 - 3800 cPs) and prime pipes using the fill button on remote control.	
		Soap dispenser has not been primed	Prime the soap dispenser by pressing the fill button on the remote or by pressing the refill button located at the bottom of the pump, until soap exits the nozzle.	
		Damaged pump (discharge from housing)	Replace the Pump	
		Debris or dried soap in the pipe or tank	Run warm water through pipe, pump, and body all the way to the nozzle. Replace with soap of correct viscosity.	
		High viscosity soap (> 3800 cPs)	NOTE: Using the soap dispenser with high viscosity soap may cause permanent damage to the pump and shorten the lifecycle.	
		Bent pipes	Unbend or straighten pipes.	

TROUBLESHOOTING

Problem	Indicator	Cause	Solution	Illustration
Soap not dispensing	Pump not making sound when the sensor is activated and Sensor is blinking when hand is placed in front.	AUX connector not fully inserted.	The connector should be inserted fully until the white o-ring is not visible. Remove the o-ring if necessary.	
		Refill button on pump does not activate the pump.	Replace the Pump. Rinse warm water through the pipe and the body of the soap dispenser all the way to the nozzle.	
		Damaged pump (discharge from housing).	Replace the Pump. Rinse warm water through the pipe and the body of the soap dispenser all the way to the nozzle.	
		Debris or dried soap in the tank or tubing	Run warm water through pipe, pump, and body all the way to the nozzle. Replace with soap of correct viscosity. NOTE: Using the soap dispenser with high viscosity soap may cause permanent damage to the pump and shorten the lifecycle.	
		Reflection issue from other object	Eliminate any cause of reflection and use appropriate remote control to shorten detection range	
The Cap is stuck and cant be released	Remnants of soap particles around cap area.	Soap overflowed and caused cap to harden itself shut.	Use Allen key on hole a few centimeters below the cap to release it. Afterwards thoroughly clean the cap area from the hardened soap with Hot Water (50/60C°)	
		Damaged sensor	If the above two solutions have not resolved this issue replace with appropriate sensor. For part numbers see spare parts list.	

TROUBLESHOOTING

SOAP LEVEL INDICATOR

PROBLEM	INDICATOR	CAUSE	SOLUTION
No soap is coming out of the spout	Led light flashes (once) in the sensor and the soap pump operates	Soap has run low or is completely out.	Refill the soap tank. <i>Refer to page 6</i>
		The soap tank has been filled, but soap has not reached the spout.	Press the refill button located at the bottom of the pump to prime the soap to the spout. Alternatively, remote control FILL button can be used for priming. <i>Refer to page 6</i>
		The connectors between the pump and the electronic unit are not connected properly.	Connect the connectors properly so that the white o-ring is not visible.
		Soap solidification in the pipe.	Fill the tank with hot water (50/60C [°]) and run the pump continuously for a short time until the pipe is cleansed.
		The pipe for the specific dispenser is bent or curved and does not reach the bottom of the soap tank.	Make sure the pipe is adjusted inside the tank for an ideal soap intake.
Soap coming out from the spout does not stop	Led light in the sensor does not flash (once) when user's hands are within the sensor range	Sensor is picking up reflections from the washbasin or another object.	Eliminate cause of reflection.
		Connectors between the electronic unit and power source are disconnected or not properly connected.	Connect the electronic unit connectors to the power source connector.
Soap coming out from the spout does not stop		The connectors between the pump and the electronic unit are not connected properly.	Connect the connectors properly so that the white o-ring is not visible.

TROUBLESHOOTING

SOAP LEVEL INDICATOR

PROBLEM	INDICATOR	CAUSE	SOLUTION
The level indicator is red, but the tank is full, or the level indicator is green, but the tank is empty		The floaters are stuck	Open the coupling nut, unscrew the cover and take the sleeve with the level indicator assembly out. Rinse the floaters in the running water and assemble back in the tank.
The LED indicator is off		The connectors between the soap dispenser pump and the top filling mechanism, or the power connectors are not connected properly.	The connectors between the soap dispenser pump and the top filling mechanism, or the power connectors are not connected properly.
The tank still has soap in it, but the soap is not coming out		The pipes of the Multifeed Soap Dispensers were not inserted properly and do not reach the bottom of the tank.	Insert the pipes. Make sure that the end of the pipe is approximately 2 cm longer than the tank inner base.
		No priming was performed.	Press the refill button located at the bottom of the pump to prime the soap to the spout. Alternatively, remote control FILL button can be used for priming. <i>Refer to page 6.</i>