

# SUPRATECH

*HYGIENE ON THE MOVE!*



## FLO 4 IN 1 UNIT

MIRROR - SOAP - WATER - AIR

INSTALLATION AND MAINTENANCE GUIDE

**FLO 4 in 1 Mirror-Soap-Water-Air unit**

Ref. RES-350

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# INTRODUCTION

Congratulations on your purchase of a wall-mounted mirrored cabinet containing an automatic liquid soap dispenser with its 6-litre reservoir, an electronic faucet and a touch-free, high-speed hand dryer.

## HYGIENE

Functions are automatically activated by placing the hand in the sensor area, and stop when the hand is removed.

Illuminated pictograms (choice of colours: blue, white, red or green) to guide users in public spaces.

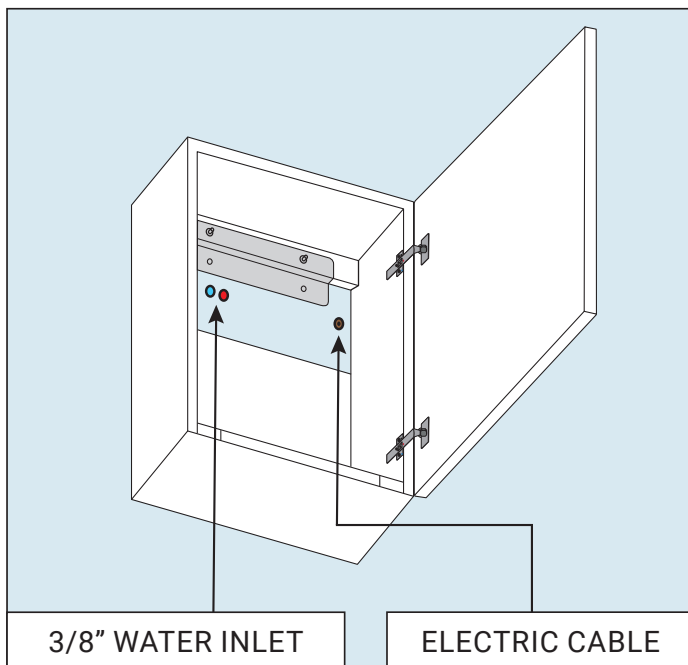
Key lock.

## POWER SUPPLY

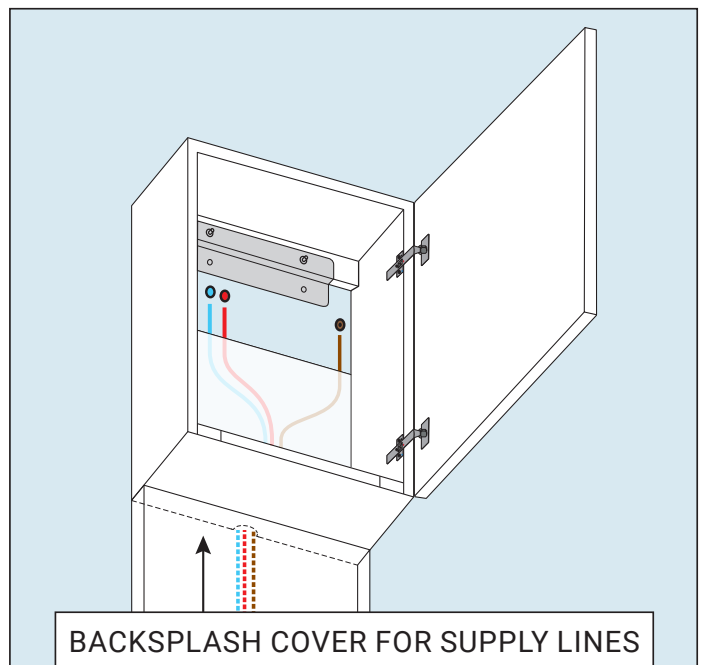
Plan for connection on 230V earthed power cable with overcurrent protection.

Protect the equipment with a 30 mA differential circuit breaker.

### RECESSED SUPPLY LINES INSTALLATION



### DOUBLE-BACKED INSTALLATION OF SUPPLY LINES



## PREPPING FOR INSTALLATION

**Flush water supply lines thoroughly before installing the faucet.**

Do not allow dirt, Teflon tape, or metal particles to enter the faucet.

## WARNING

To prevent reflection problems, it is recommended to keep a minimum distance of 300 mm between the bottom of the unit and the sensors.

## IMPORTANT

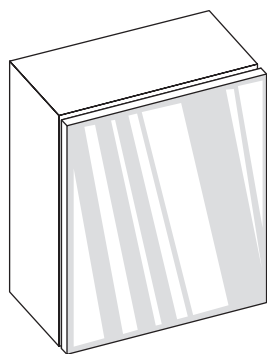
This faucet model with infrared sensor pointing down, is not intended to be used with a washbasin of reflective material such as bright stainless steel.

If the drain is straight below the faucet sensor, use a drain with a non-reflective finish (do not use a chrome plated one).

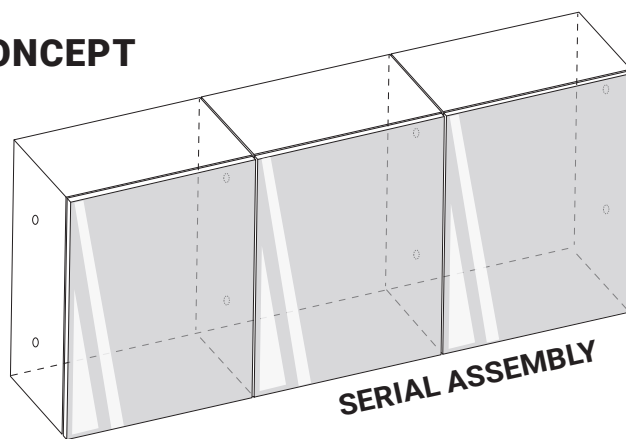
All plumbing is to be installed in accordance with local applicable codes and regulations.

# INSTALLATION TYPES

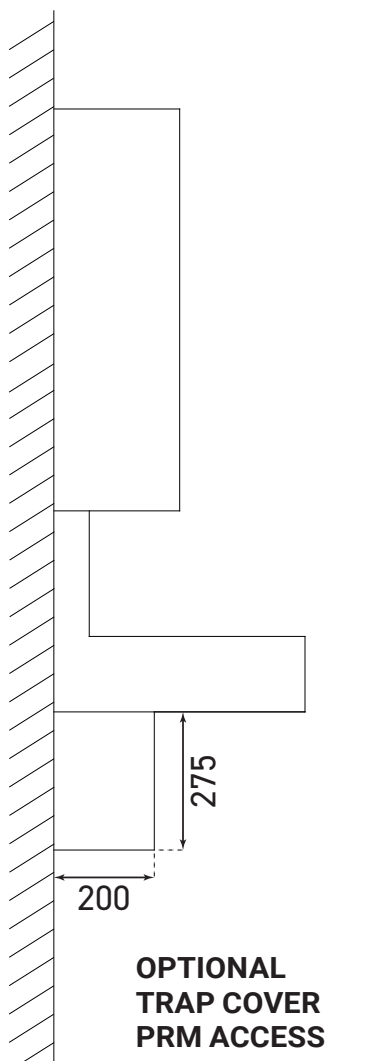
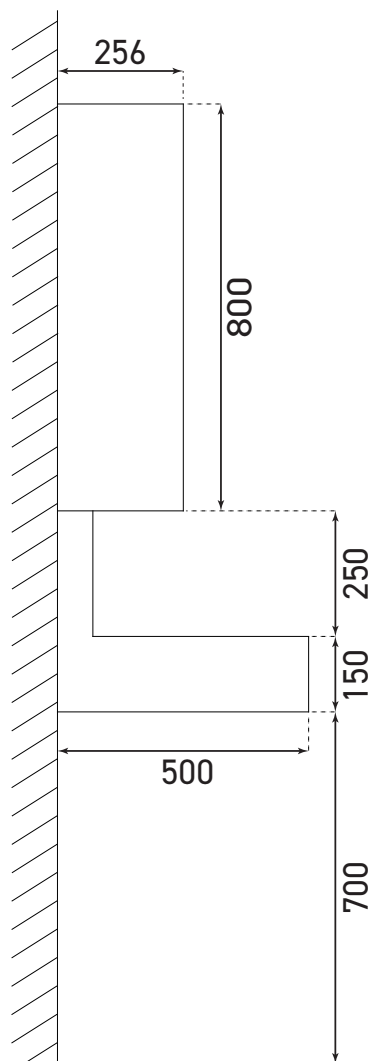
## MODULAR CONCEPT



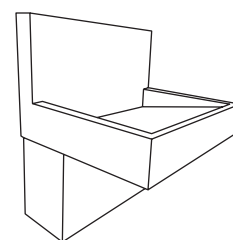
4 in 1 mirror unit  
W600 x H800 x D256 mm  
Ref. RES-350



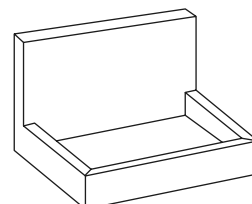
SERIAL ASSEMBLY



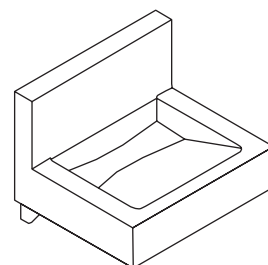
OPTIONAL  
TRAP COVER  
PRM ACCESS



Solid Surface washbasin  
for mirror unit  
W600 x H350 x D500 mm  
Ref. LVA-600-D



Stainless steel washbasin  
for mirror unit  
W600 x H400 x D500 mm  
Ref. L-114-D



Composite washbasin  
for mirror unit  
W600 x H395 x D495 mm  
Ref. LA-600

*Available in different widths.*

### OPTIONAL:

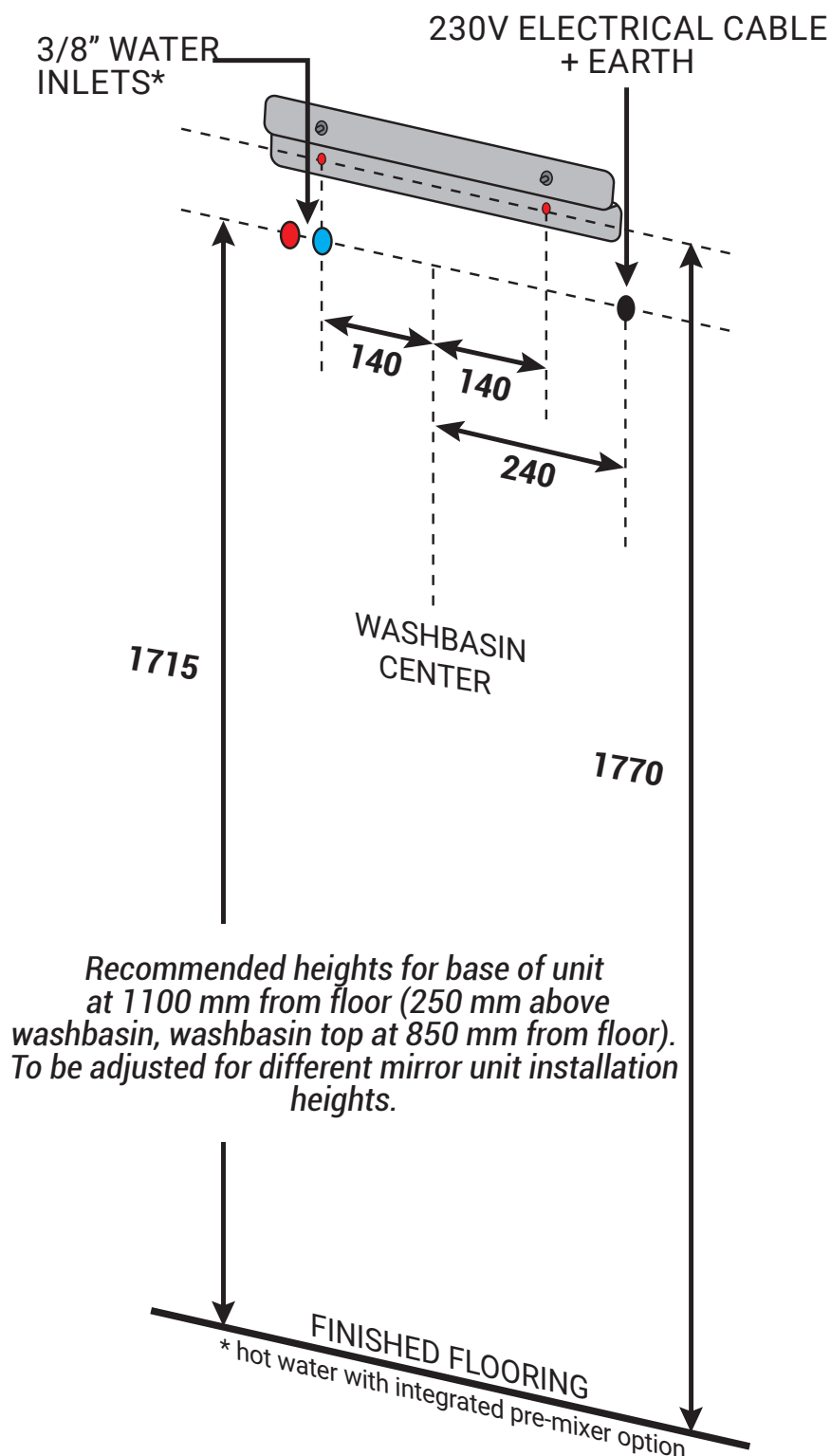
#### Stainless steel paper towel dispenser

- Top-filling, bottom-dispensing
- Capacity : around 500 paper towels

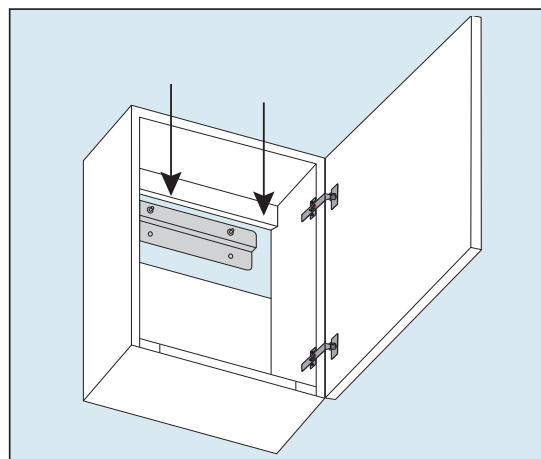


# PREPPING AND MOUNTING THE UNIT

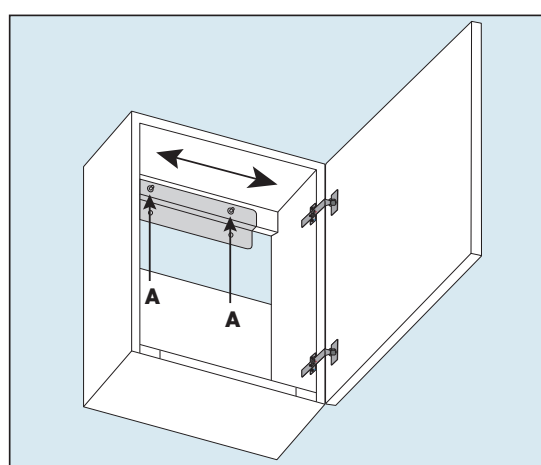
Install the water inlets and electrical cable.  
Mount the DIN rail of the unit to the wall.



**IMPORTANT**  
Provide reinforcements, plugs and fixings to suit the support

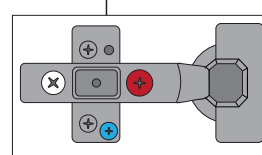
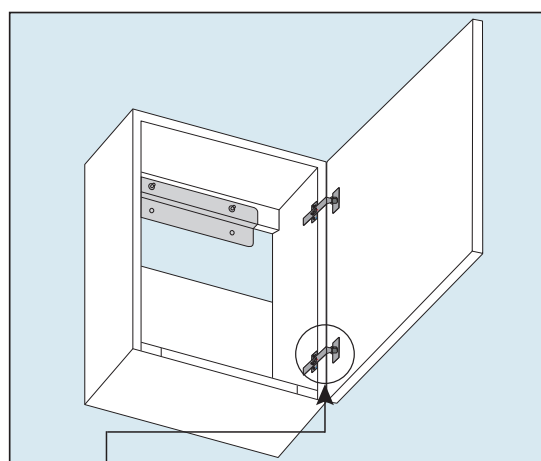


Place the unit onto the DIN rail.



Adjust the unit center to the washbasin center.  
Secure with clamping screws [A].

## MIRROR DOOR ADJUSTMENT:



**RED:** raise or lower the door  
**BLUE:** shift left / right  
**WHITE:** move the door forward or backwards

## STARTING - UP

Connect the water and electricity supply (see diagram on page 7).

### FOR THE WATER FAUCET

- 1 - Wait for 15 seconds after connecting to the power source before placing your hands in the sensor area.  
The solenoid valve will open and close for 1 second to indicate that the ideal sensor range has been set and the product is ready for use.
- 2 - Turn on the main water supply line. Check for leaks.
- 3 - If the automatically set sensor range is not satisfactory, use the RES-30 or RES-31 remote control (optional) to adjust the settings.



### FOR THE SOAP DISPENSER

- 1 - Wait for about 10 seconds before placing your hands in the sensor range.
- 2 - Fill the soap tank: see below.

### SOAP VISCOSITY

100 - 3800 cPs for liquid soap.

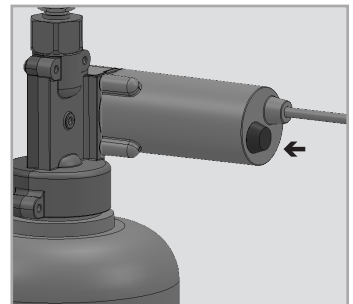
PH level between 6.5 and 8.5.

Lower levels will result in corrosion of the metal dispenser as well as rubber and plastic components.

Higher pH levels will cause rubber parts to swell and plastic components to degrade over time.

### FILLING THE SOAP TANK

- 1 - Remove the 1L tank from its support.
- 2 - Fill with soap up to the top line.
- 3 - Put the tank back onto its support.
- 4 - Press the refill button on the back of the pump to prime the soap until it comes out of the spout.  
This step can also be completed using the FILL button on the RES-38 or RES-30 (optional) remote control.



**NOTE:** the tank must be refilled once the soap reaches the bottom line.

### OPTION: ADAPTER CAP KIT FOR NON-PROPRIETARY SOAP TANK



**RES-797G**  
Large : 45 - 59 mm



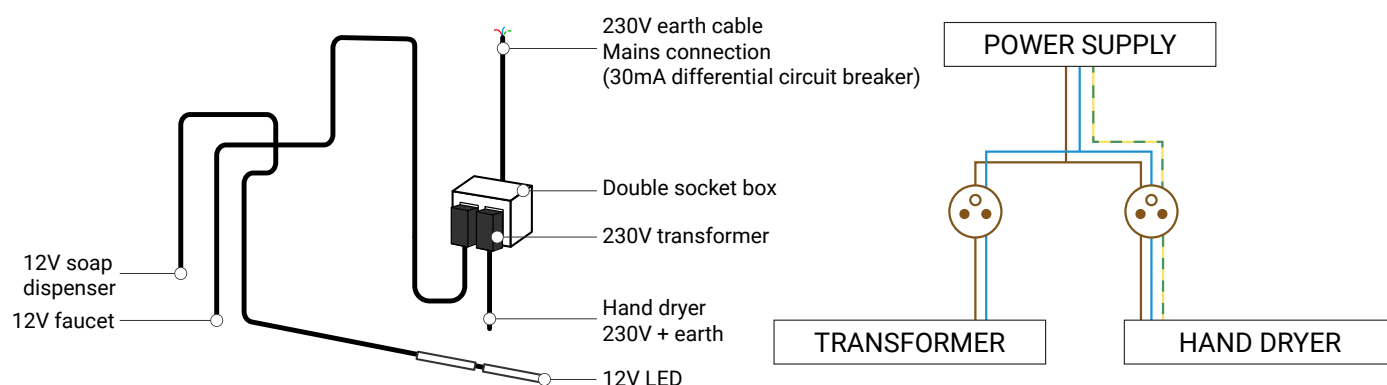
**RES-797**  
Small : 30 - 38 mm

Flexible cap kit to supply soap dispenser directly from 5L non-proprietary tanks. Includes small Ø 30-38 mm or large Ø 45-49 mm flexible cap, depending on bottleneck diameter, rigid beveled tube to draw from the bottom of the tank, and quick-connect fitting on the soap output hose.



# TECHNICAL CHARACTERISTICS

## ELECTRICAL DIAGRAM



## CABINET

Top cabinet in 19 mm thick hydro white or black melamine pannels, 1 mm white PVC coated edges, and underside in rot-proof white Komacel.  
19 mm Komacel door with mirror and invisible hinges.

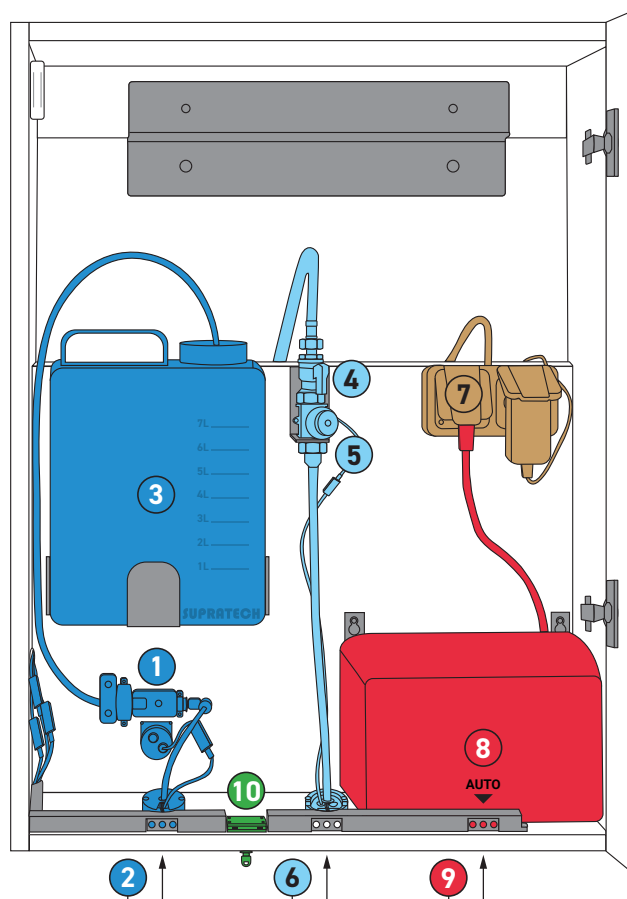
## DIMENSIONS

Width: 600 mm - Depth: 256 mm - Height: 800 mm.  
Or custom sizing.

## MIRROR

6 mm thick mirror with shatterproof backing film, polished edges, and engraved SOAP / WATER / AIR / PAPER pictograms.

## COMPONENTS



### SOAP DISPENSER

- 1 Pump
- 2 Sensor
- 3 6 L tank

### WATER FAUCET

- 4 Shut-off valve
- 5 Solenoid valve
- 6 Sensor

### ELECTRICITY

- 7 IP54 double socket

### HAND DRYER

- 8 Hand dryer
- 9 Sensor

### MIRROR CLOSING

- 10 Lock

# TECHNICAL CHARACTERISTICS

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## 1) ELECTRONIC FAUCET

- Self-adjusting infrared sensor, adjustable with RES-31 or RES-30 remote control. (sensor range, flow time, start/stop...).
- Powered by 230/12V transformer  $\overline{\text{---}}$ .
- Security stop after 90 seconds without interruption.
- Water pressure 0.5 - 8 bars. Temperature: max 70°C.
- Cold or pre-mixed water supply with 1/2" solenoid valve.
- NEOPERL aerator with limited 6LPM flow (1.9 LPM option).  
Aerator with anti-scale protection.
- CE. ACS

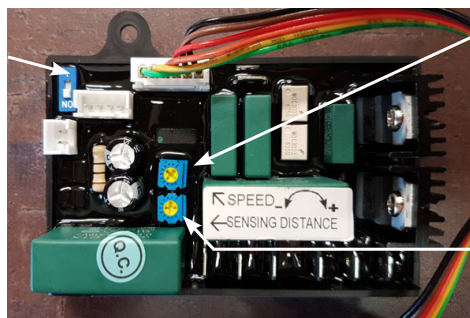
## 2) AUTOMATIC SOAP DISPENSER

- Infrared sensor
- Powered by 230/12V transformer  $\overline{\text{---}}$ .
- Peristaltic pump: the soap passes through a tube without coming into contact with the pump, preventing contamination and backflow.
- Precise, even soap dosage.
- Refillable 6L tank.
- Soap dosage adjustable with RES-38 or RES-30 remote control.

## 3) ELECTRIC HAND DRYER

- Self-adjusting infrared sensor.
- Operating voltage: 230V 50/60Hz. 4A 0.85-0.92Kw.
- Security stop after 60 seconds without interruption.
- Nominal output 920W (motor 460W, heater 460W).
- 9 second drying time. Drying speed from 52 to 90m/s. Airflow 102m<sup>3</sup>/h.
- Sound level 67.4 to 71.2 dB at 1m.
- Adjustable airflow and sound level. Heated or ambient air switch.
- 1.2mm white epoxy steel cover.
- ErP 1275/2008 compliant (standby consumption less than 0.5W).
- CE. Class 1. IP 11.

**ON - I switch**  
to activate / deactivate  
the heating element



**SPEED potentiometer**  
to adjust  
blower speed

**SENSING DISTANCE  
potentiometer**  
to adjust sensor range

*The PCB can be accessed by removing the hand dryer from the unit, slightly loosening the 2 screws on the support and removing the 2 screws on the cover.*



## SETTING ADJUSTMENTS

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### SETTING ADJUSTMENTS WITH THE (OPTIONAL) SOAP & WATER RES-30 REMOTE CONTROL

The ideal detection range will be set automatically.  
If necessary, the sensor settings can be adjusted as follows:

Turn the water supply off.

To adjust the sensor using the remote control, hold the remote directly in front of the sensor at about 15-20 cm away.

























Select the function you wish to adjust by pressing the corresponding button once.

After pressing the function button, the blue LED on the sensor will flash quickly.

At this point, you can adjust the setting by pressing the (+) or (-) buttons, each press increasing and decreasing by one level.

When you have finished adjusting, open the shut-off valve.

# SETTING ADJUSTMENTS

 	<p><b>SENSOR RANGE:</b></p> <p>The sensor range represents the optimum distance at which a person or hand must be placed to trigger the system.</p> <p>If needed, the sensor range can be adjusted as follows:</p> <p>Press the <b>RANGE</b> button. Wait for the blue LED to flash on the sensor.</p> <p>Then press <b>(+)</b> to increase the range and <b>(-)</b> to decrease it.</p>				
	<p><b>NOTE:</b> even in the event of a power cut, once the sensor range has been set using the remote control, it is memorised.</p>				
 	<p><b>TEMPORARY OFF FUNCTION:</b></p> <p>The temporary off function is ideal for performing any activity in front of the sensor without operating the system (e.g. cleaning).</p> <p>Faucets and soap dispensers remain closed for 1 minute when this button is pressed once. To deactivate this function and return to normal operations, press the <b>ON/OFF</b> button again or wait for 1 minute.</p>				
 	<p><b>SOAP TANK PRIMING:</b></p> <p>This function button operates foam / liquid soap dispensers.</p> <p>Once the soap tank has been filled/re-filled, press the <b>FILL</b> button.</p> <p>The pump will operate for one minute to initiate the soap flow through the dispenser spout. To stop this activity, press the <b>FILL</b> button again. If the soap has not started dispensing from the spout, press the <b>FILL</b> button again</p>				
 	<p><b>SELF ADJUSTMENT MODE:</b></p> <p>To activate, first ensure that no objects are in front of the sensor.</p> <p>Press the <b>ADJ</b> button and wait for a quick flashing of the sensor's LED.</p> <p>Remove the hand holding the remote control and move away from the detection range. The ideal detection range will be set automatically.</p> <p>Opening of the solenoid valve for 1 second to indicate that the adjustment is complete and the valve is ready for use.</p>				
 	<p><b>RESET:</b></p> <p>The reset function allows the sensor to return to the original factory settings. If your faucet has self-adjusting detection, the <b>RESET</b> button restores all factory settings except for the detection length.</p> <p>Use the <b>ADJ</b> button to activate the self-adjustment mode.</p> <p>If needed, the detection length can be adjusted as follows:</p> <p>Press the <b>RANGE</b> button. Press and hold down the <b>RESET</b> button and, at the same time, press the <b>(+)</b> button once.</p>				
 	<p><b>SOAP DOSAGE:</b></p> <p>This function button operates liquid soap dispensers only.</p> <p>Use the 1-4 drop buttons to select the desired soap dosage in cm<sup>3</sup>.</p> <table><tr><td> 0.7 to 0.9 cm<sup>3</sup></td><td> 1.2 to 1.6 cm<sup>3</sup></td><td> 1.6 to 1.9 cm<sup>3</sup></td><td> 2.1 to 2.3 cm<sup>3</sup></td></tr></table> <p>Wait for quick flashing LED in the sensor eye. The exact dosage will vary depending on the soap viscosity.</p>	 0.7 to 0.9 cm <sup>3</sup>	 1.2 to 1.6 cm <sup>3</sup>	 1.6 to 1.9 cm <sup>3</sup>	 2.1 to 2.3 cm <sup>3</sup>
 0.7 to 0.9 cm <sup>3</sup>	 1.2 to 1.6 cm <sup>3</sup>	 1.6 to 1.9 cm <sup>3</sup>	 2.1 to 2.3 cm <sup>3</sup>		

## **FAUCET - FILTER MAINTENANCE**

The faucet comes equipped with a stainless steel filter designed to trap debris at the entrance of the solenoid valve. It is recommended to clean the filter every 6 months. If the water flow decreases, this may be due to the filter being dirty/clogged. Remove and clean under running water.



## **HAND DRYER**

Isolate the power supply.  
Remove the 2 fixing screws on the stainless steel plate, then the 2 screws of the cover and the cover.  
Remove any dust inside the hand dryer.  
Wipe the cover with a damp cloth and a mild cleaning solution.  
Do not soak. Never use abrasives on the cover.  
Put the cover back in place. Do not tighten the screws too firmly.  
Clean the sensor.  
Regular maintenance is recommended to ensure optimal performance.

## **SOAP DISPENSER - DISCONNECTING THE SOAP HOSE FROM THE PUMP**

If needed, remove the soap hose from the pump by simply pressing on the quick connector's blue ring. Make sure to properly push the hose into the quick connector to prevent leaks.

## **MAINTENANCE AND CLEANING OF CABINET**

Use only a clean and soft cloth with non-abrasive and chlorine-free cleaning products. Dust with a microfiber cloth.  
For a deeper clean, remove dirt using a damp cloth before moving on to the use of a general cleaning product such as Glassex.  
In case of greasy fingerprints or splashes, the surface can be gently cleaned with isopropyl alcohol.  
Do not use household alcohol, acetone, or thinner to clean the furniture

## LIMITED WARRANTY

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The 3 year warranty for the faucet and hand dryer and the 2 year warranty for the soap dispenser against any manufacturing defect or malfunction will, at SUPRATECH's discretion, be repaired, replaced or adjusted.

SUPRATECH will not be responsible for any labour, installation or other additional or indirect costs other than those specified above. In no event shall SUPRATECH's liability exceed the purchase price of the product. This warranty does not cover breakdowns due to incorrect installation and maintenance, normal wear and tear, battery or water composition.

This warranty does not cover product damage caused by the following:

- Incorrect installation, inversion 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 soap tank.
- Use of soap outside viscosity recommendations.
- Alteration of the original soap dispenser components (including pipes).
- Wear parts (motor brushes, hand dryers)
- Vandalism.

Failure to comply with the safety precautions and/or installation recommendations described in this installation guide will void the warranty.

For all warranty claims, please contact your plumbing contractor, dealer, or SUPRATECH directly. Each claim will be assessed on a case-by-case basis to determine eligibility for repair, replacement, or adjustment.

Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the reference and model number, proof of purchase, and the installation date.

PROBLEM	INDICATOR	CAUSE	SOLUTION
No running water	1. The sensor's blue LED does not turn on when user's hands are within sensor range	1. The range is too short.	Increase range.
		2. The range is too long.	Decrease range.
		3. The unit is in "Security Mode".*	
		4. Sensor is picking up reflections from the washbasin.	Decrease sensor range with the RES-30 remote or eliminate reflection source.
	2. The sensor's blue LED flashes once when user's hands are within sensor range	1. Faulty connection/wiring between sensor and solenoid valve.	Re-connect sensor and solenoid valve properly.
		2. Dirt or scale in the solenoid.	Unscrew and clean the solenoid valve.
		3. The central opening of the diaphragm is blocked or torn.	Clean the opening or replace the diaphragm.
		4. The water supply pressure of the faucet is greater than 8 bars.	Decrease water supply pressure or use a pressure reducing valve.
Water does not stop running	1. The sensor's blue LED flashes once when user's hands are within sensor range	Dirt or scale in the diaphragm.	Clean the opening or replace the diaphragm.
	2. The sensor's blue LED does not flash when user's hands are within range	1. The sensor is dirty.	Clean or remove obstructions.
		2. Sensor is picking up reflections from the washbasin.	Decrease sensor range with the RES-31 remote or eliminate reflection source.
Weaker water flow		Filter or aerator is clogged.	Remove, clean, re-install.

\*Security mode: If the sensor is obstructed for more than 90 seconds, the faucet will automatically stop running. To return to regular operation, remove obstruction.

PROBLEM	INDICATOR	CAUSE	SOLUTION
Soap not dispensing	Sensor's blue LED flashes when user's hands are within range	The soap tank is empty.	Fill with soap of correct viscosity (100 - 3800 cPS) and prime pipes using the FILL button on remote control or by pressing the refill button on the pump.
		The soap tank has not been primed.	Prime the soap dispenser by pressing the FILL button on the remote or by pressing the refill button on the pump, until soap exits the spout.
		Damaged pump (discharge from housing).	Replace the pump.
		Debris or dried soap in the pipe or tank.	Using the button on the pump, run hot water through the pipe, the pump, and the dispenser all the way to the spout. Replace with soap of correct viscosity.
		High viscosity soap (>3800 cPs).	NOTE: Using the soap dispenser with high viscosity soap may cause damage to the pump and shorten the lifecycle.
		Bent pipes.	Unbend or straighten pipes.
	Sensor's blue LED does not flash when user's hands are within range	Faulty connection of AUX connector.	The connector should be inserted fully until the white o-ring is no longer visible. Remove the o-ring if necessary.
		Faulty connection of AUX connector.	The connector should be inserted fully until the white o-ring is no longer visible. Remove the o-ring if necessary.
		Debris or dried soap in the pipe or tank.	Using the button on the pump, run hot water through the pipe, the pump, and the dispenser all the way to the spout. Replace with soap of correct viscosity.  NOTE : Using the soap dispenser with high viscosity soap may cause damage to the pump and shorten the lifecycle.
		Reflection issue from washbasin or other object.	Eliminate any cause of reflection and/or, if necessary, use remote control to shorten detection range.
Soap runs continuously		Faulty connection of AUX connector.	The connector should be inserted fully until the white o-ring is no longer visible. Remove the o-ring if necessary.



PROBLEM	TROUBLESHOOTING FOR INITIAL INSTALLATION FAILURES
The hand dryer does not run	Ensure that the breaker supplying the dryer is engaged. If it is, isolate the power and remove the hand dryer cover. Taking suitable precautions to avoid shock hazard, reconnect the power and check for voltage at the terminal block. Check that the connections are made correctly.
The hand dryer cycles by itself or runs continuously	Ensure that there are no obstructions in front of or on the sensor. Clean the infrared sensor. Shorten detection range using the SENSING DISTANCE potentiometer. If problem persists, replace sensor.
The hand dryer makes a muffled sound and does not run for a complete cycle	Ensure that the power supply voltage is correct. The hand dryer will make a loud humming noise if the input voltage is too high. Replace damaged elements (PCB and sensor).
The hand dryer runs but the airflow is weak	Ensure that the power supply voltage is correct. The dryer will run weakly if the input voltage is too low. Correct the power supply as required.

PROBLEM	TROUBLESHOOTING FOR IN SERVICE FAILURES
The hand dryer does not run	Ensure that the breaker supplying the dryer is operational. If it is, isolate the power and remove the hand dryer cover. Replace PCB and sensor. Taking suitable precautions to avoid shock hazard, reconnect the power and check for voltage at the terminal block.
Very short detection range	Ensure that there are no obstructions in front of or on the sensor. Clean the infrared sensor. If problem persists, replace sensor.
The heater heats up but there is no airflow	Unplug the power cord. Remove the cover and open the blower housing. Replace the hand dryer motor.
The hand dryer blows cold air	Unplug the power cord. Remove the cover and open the blower housing. Test the open circuit thermostat. Check the heater element for signs of burning and/or damage. Replace damaged elements.
The hand dryer runs but the airflow is weak	Check that the air outlet is unobstructed. If there are no obstructions, unplug the power cord. Remove the cover. Remove dust, dirt build-up on ventilation slits. Open the blower housing. <b>Check motor brushes for wear (<math>\leq 30</math> mm of graphite) and replace if necessary.</b>

# SUPRATECH

AUTOMATED SYSTEMS - SANITARY ACCESSORIES - STAINLESS STEEL SANITARY WARE

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10.2024