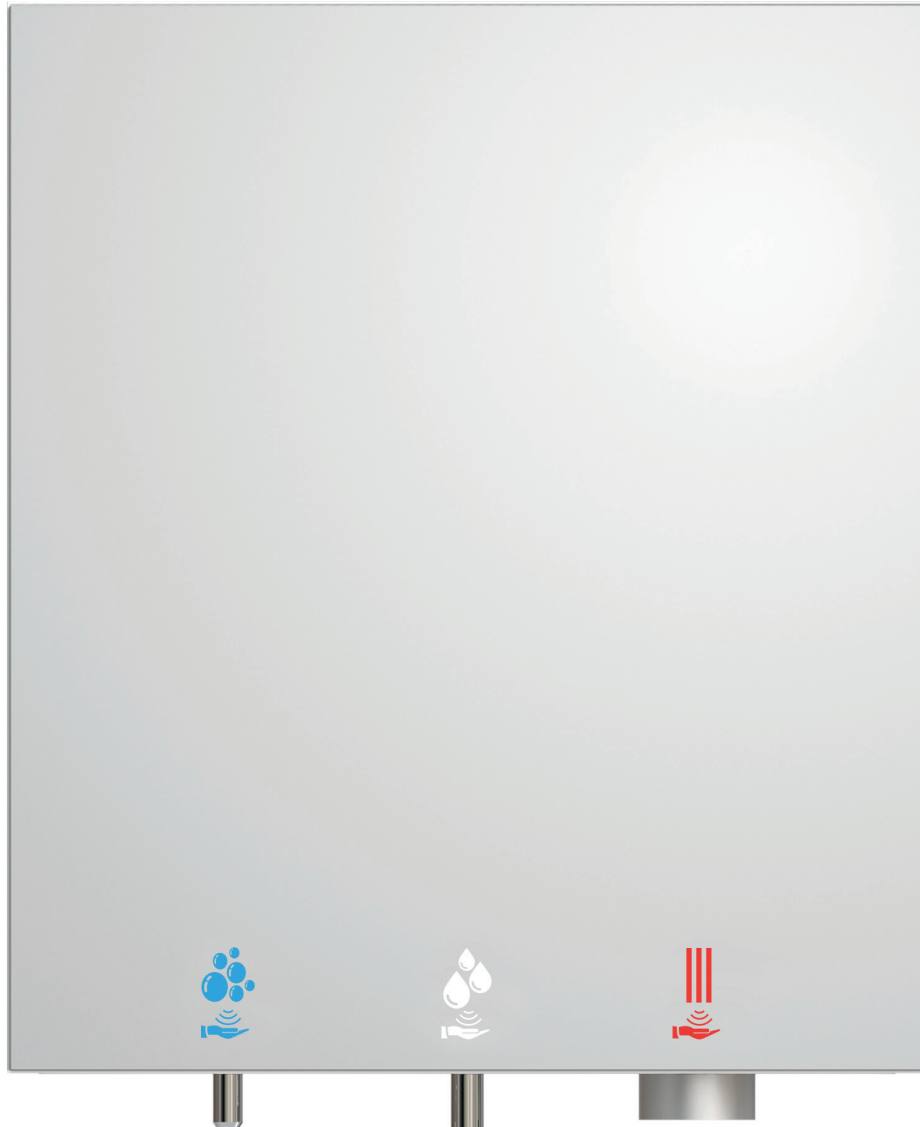


SUPRATECH

HYGIENE ON THE MOVE!



HYFLO 4 IN 1 UNIT

MIRROR - SOAP - WATER - AIR

INSTALLATION AND MAINTENANCE GUIDE

HYFLO 4 in 1 mirror-soap-water-air unit

Ref. RES-850

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3	INTRODUCTION
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INTRODUCTION

Congratulations on your purchase of a wall-mounted high mirrored cabinet containing an automatic liquid or foam soap dispenser with a 7-litre tank, an electronic faucet with thermostatic pre-mixer, and a touch-free, high-speed hand dryer.

Components mounted on a stainless steel strong plate, 1.2 mm thickness.

HYGIENE

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

Illuminated pictograms (choice of colors: blue, white, red or green), vertical and visible stainless steel spouts to guide users in placing their hands in public spaces.

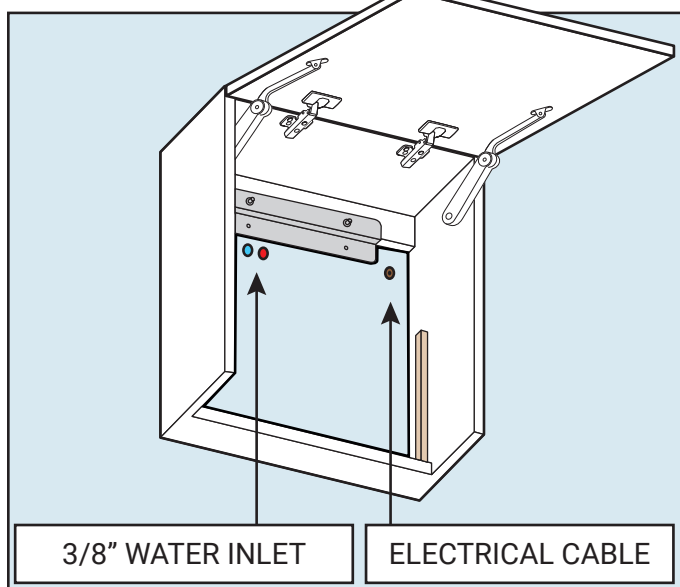
Key lock.

POWER SUPPLY

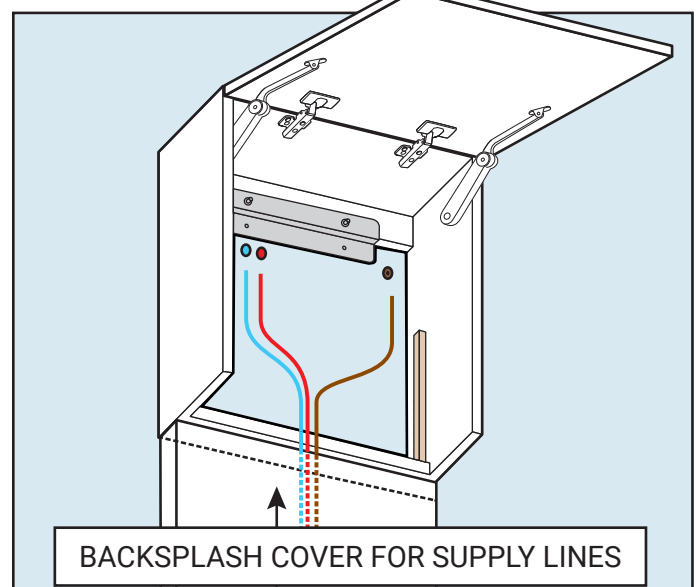
Plan for connection on 230V earthed power cable with overcurrent protection.

Protect the circuit with a 30 mA residual-current device (RCD).

RECESSED SUPPLY LINES INSTALLATION



DOUBLE-BACKED SUPPLY LINES INSTALLATION



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 sink and the sensors.

IMPORTANT

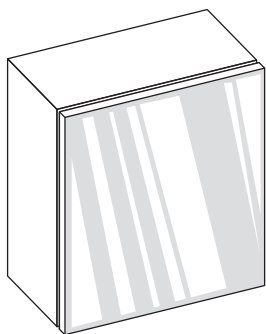
This faucet model with infrared sensor pointing down, is not intended to be used with a washbasin of reflective material such as bright stainless steel.

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

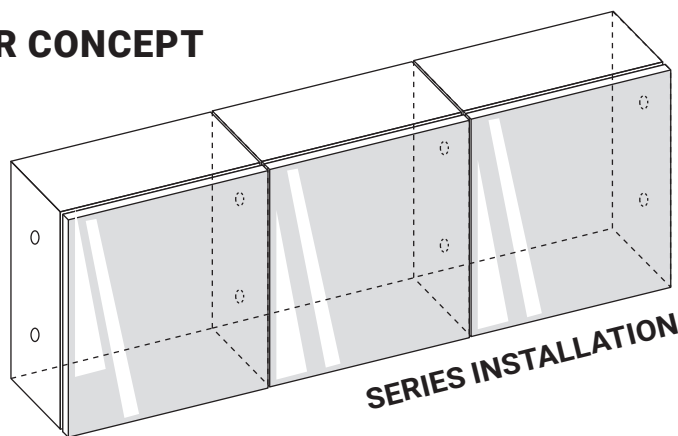
All plumbing is to be installed in accordance with local applicable codes and regulations.

INSTALLATION TYPES

MODULAR CONCEPT

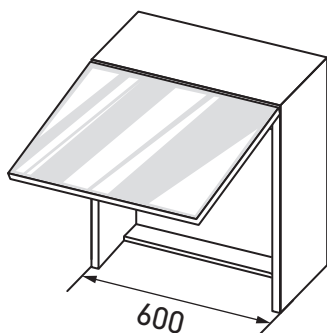


4 in 1 mirror unit
W600 x H700 x D250 mm
REF. RES-850

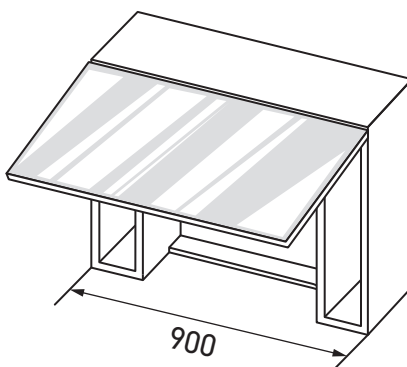


SERIES INSTALLATION

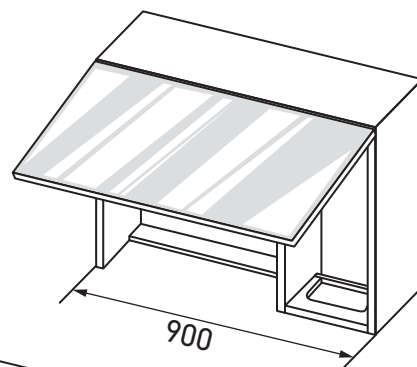
VARIOUS WIDTHS



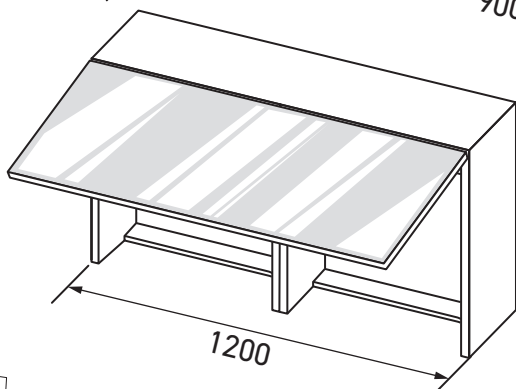
600



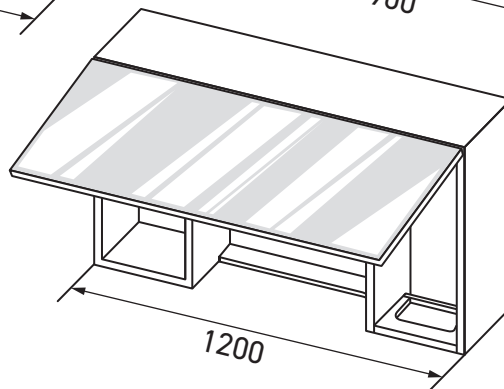
900



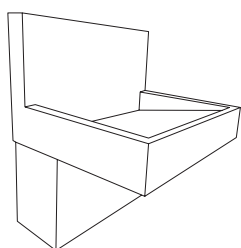
900



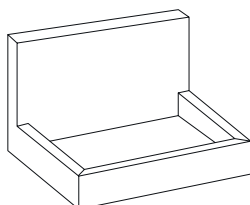
1200



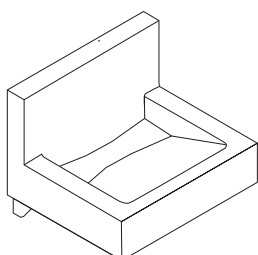
1200



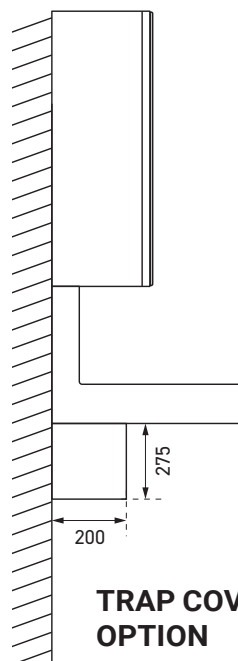
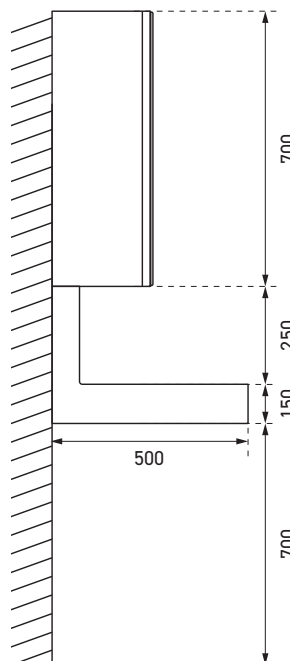
Solid Surface washbasin
for mirror unit
W600 x H350 x D500 mm
REF. LVA-600-D



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

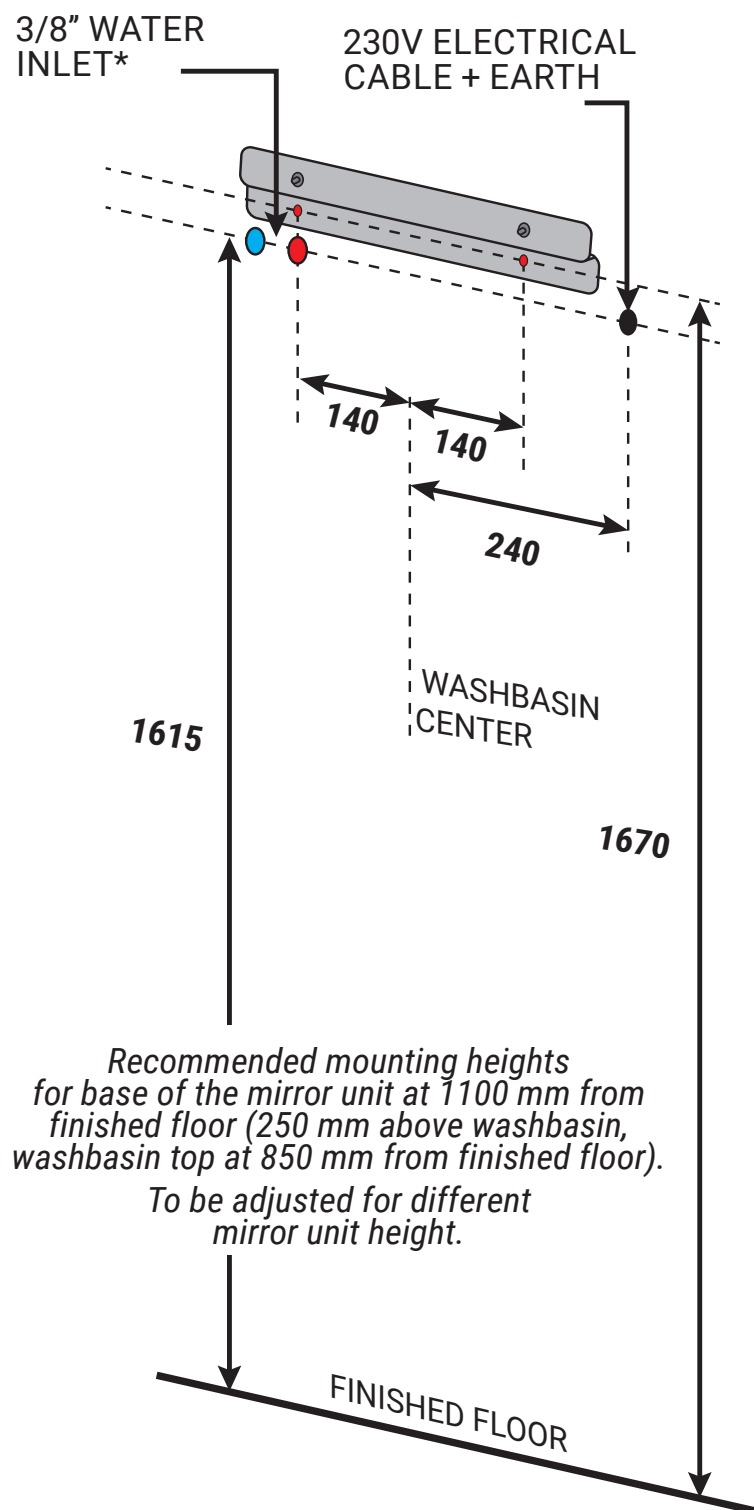


TRAP COVER
OPTION

PRM ACCESS

MIRROR UNIT PREPPING AND MOUNTING

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

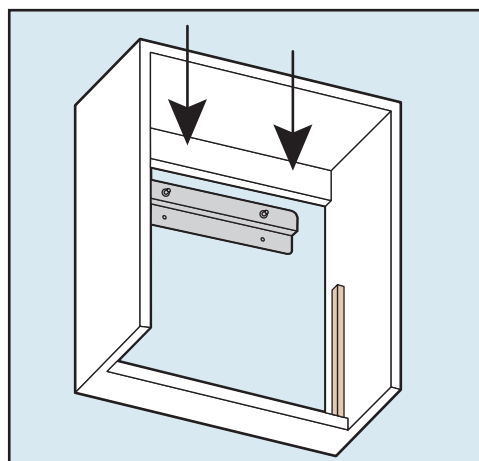


KG

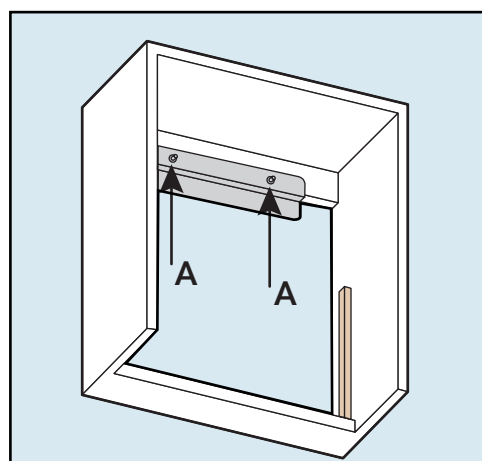
600mm unit
with soap tank

IMPORTANT

Provide reinforcements,
plugs and fixings to suit
the support

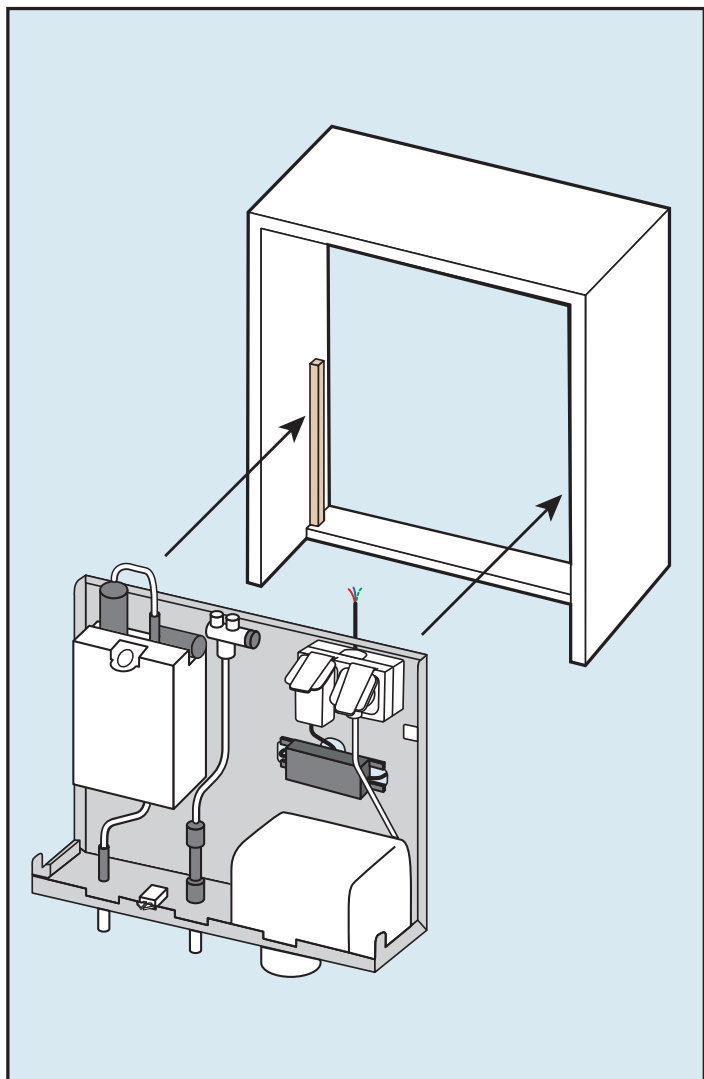


Place the unit into the fixing rail.

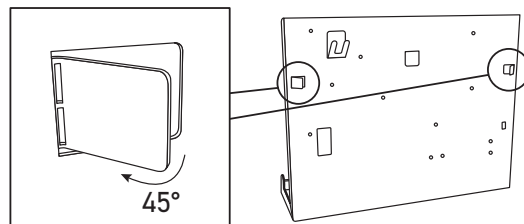


Adjust the alignment
of the unit with the washbasin.
Secure the unit using
the clamping screws [A].

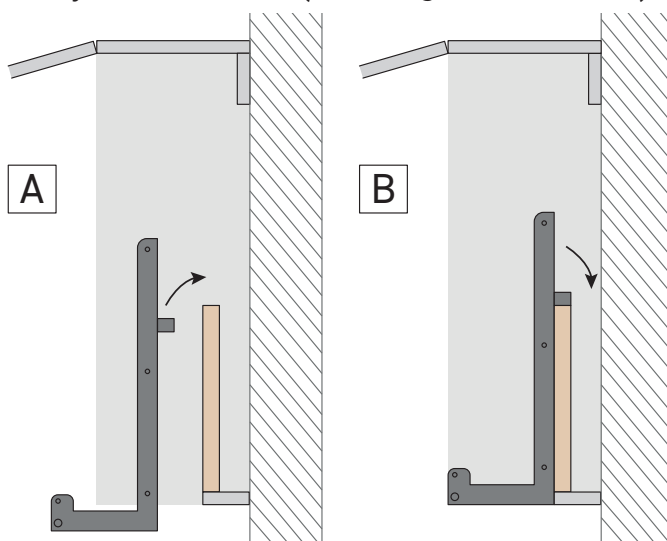
PLATE FIXING



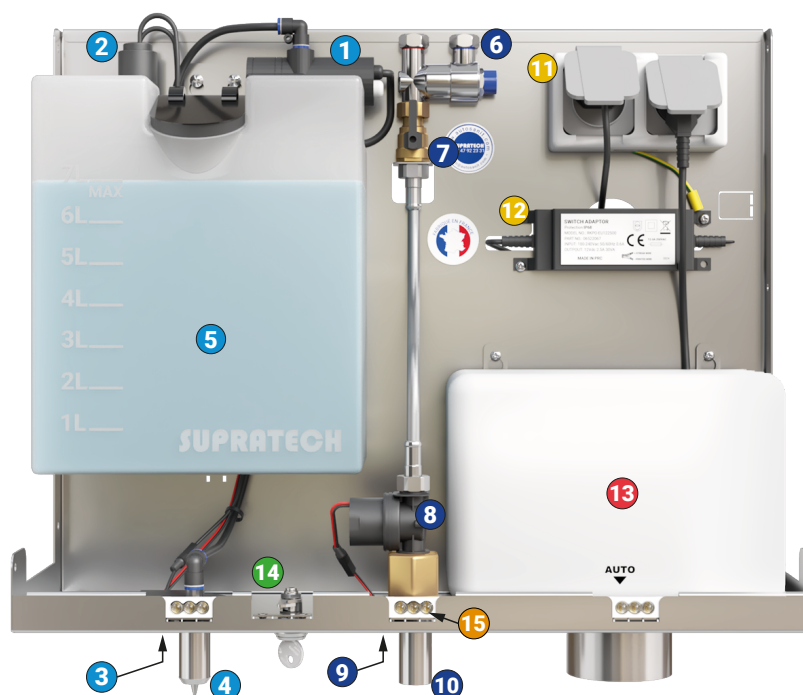
1. Manually fold the two stainless steel plate side tabs backward to 45°.



2. Position the stainless steel plate along the cleats inside the cabinet, supported by the side tabs (see diagrams A and B).



3. Fix the plate laterally to the cabinet on both sides using the eight supplied screws.



SOAP DISPENSER

- 1 Pump
- 2 Air compressor
- 3 Sensor
- 4 Spout
- 5 7 L tank

WATER FAUCET

- 6 Pre-mixer
- 7 Shut-off valve
- 8 Selenoid valve
- 9 Sensor
- 10 Spout

ELECTRICITY

- 11 Double socket
- 12 230/12 V transformer

HAND DRYER

- 13 Hand dryer

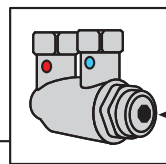
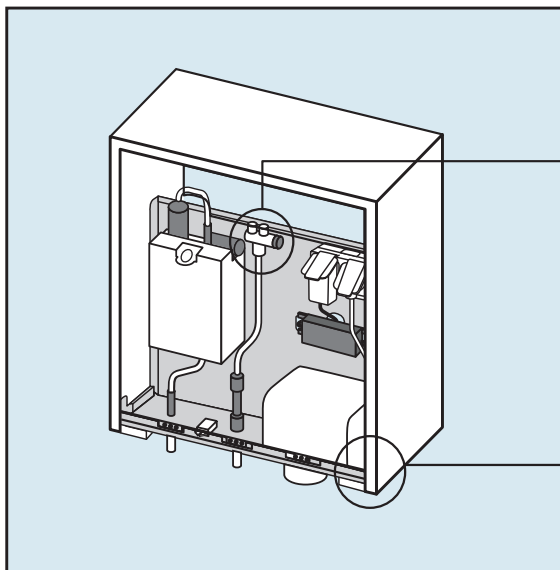
MIRROR CLOSURE

- 14 Key lock

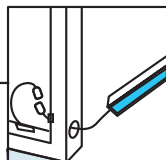
SIGNAGE SYSTEM

- 15 White or colors LED

ADJUSTMENTS AND FINISHES

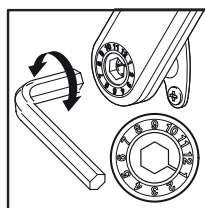
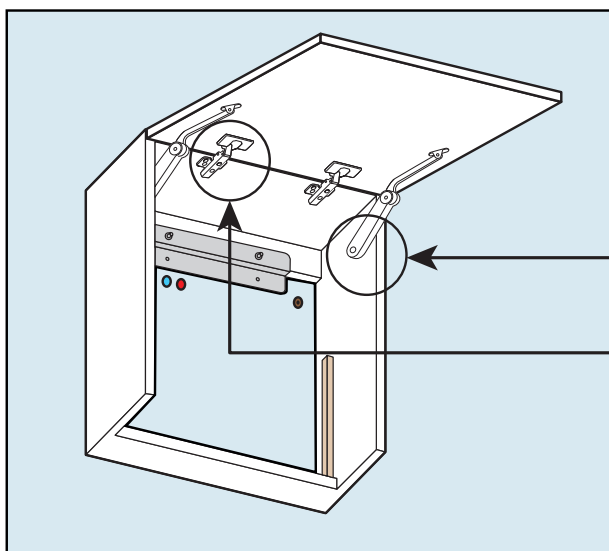


Water temperature adjustment with a 5 mm Allen key. Factory-set to 38°C.

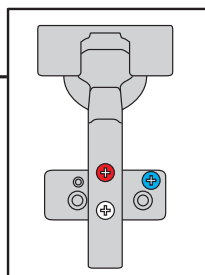


LED connection on the paper towel dispenser side (for ref. RES-854).

Connect the waterproof connectors between the LED in the central section of the unit and the paper towel dispenser.



Adjustment of the holding capacity using a 10 mm Allen screw.



Mirror door adjustment:

RED: to move the door up or down

BLUE: left/right translation

WHITE: to move the door forward or backward

OPTION

Stainless steel paper towel dispenser

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



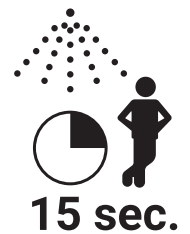
STARTING-UP

Connect the M3/8" water supply to the thermostatic pre-mixer and the R2V 3G2.5 mm² electrical cable to the double socket (see diagram p.9).

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 for one second to indicate that the adjustment is complete and the faucet is ready for use.



- 2 - Turn on the main water supply line and check for leaks.
- 3 - If the automatically set sensor range is not satisfactory, use the RES-30 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.

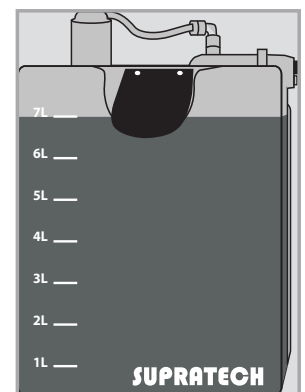
SOAP VISCOSITY

100-3800 cPs for liquid soap.
Up to 100 cPs for foam soap.

PH level between 6.5 and 8.5.

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

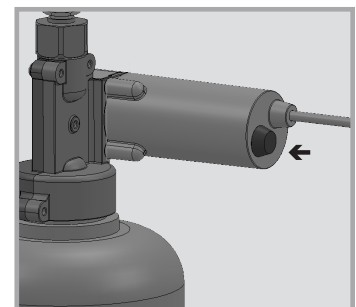
Higher pH level will cause rubber parts to swell and plastic components to degrade over time.



**Do not exceed
the max. fill line
when refilling**

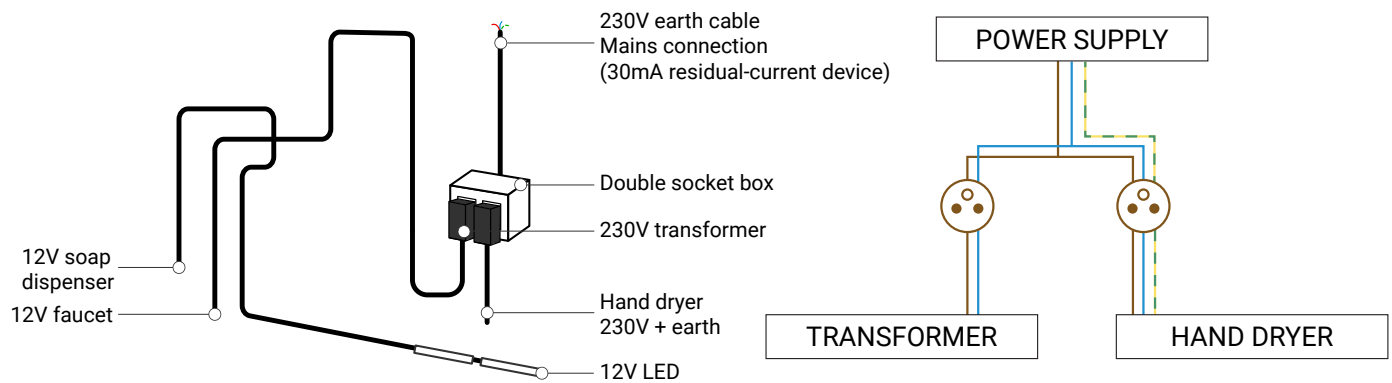
SOAP TANK FILLING

- 1 - Lift the rubber cap and rest the full soap tank on the edge of the empty tank to pour in the soap.
- 2 - Fill the soap tank up to the top line.
- 3 - 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 remote control.



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

ELECTRICAL DIAGRAM



CABINET

Top cabinet in 19 mm thick hydro white melamine panel, 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, 900 or 1200 mm - Depth: 256 mm - Height: 700 mm.

Or custom sizing.

MIRROR

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

Components mounted on 1.2 mm thick strong stainless steel plate:

1) THERMOSTATIC PRE-MIXER

Ensure a supply of mixed water at a consistent temperature, according to the selected temperature and anti-scald safety feature.

- F3/8" supply spacing: 34 mm
- Adjustment from 30 to 50°C
- Permissible temperature 80°C

2) ELECTRONIC FAUCET

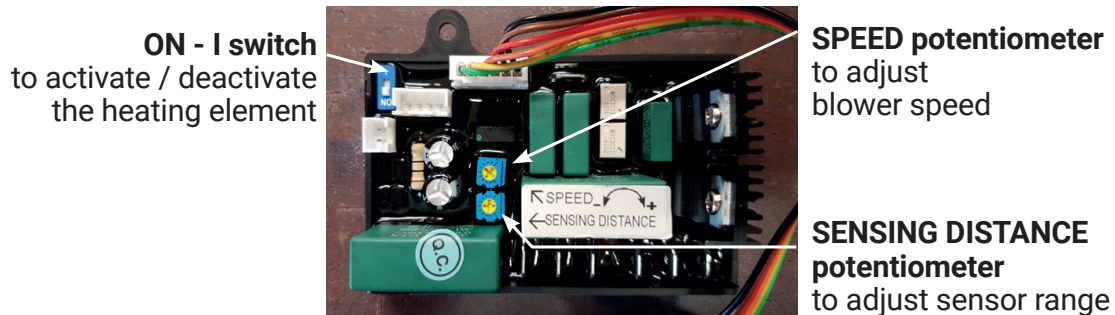
- Self-adjusting infrared sensor, adjustable with RES-31 or RES-30 remote control. (sensor range, flow time, on/off...).
- Powered by 230/12V transformer.
- Security stop after 90 seconds without interruption.
- Water pressure 0.5 - 8 bars. Temperature: max 70°C.
- Cold or pre-mixed water supply with 1/2" solenoid valve.
- NEOPERL aerator with limited 6L/min flow (1,9 L/min option).
- Aerator with anti-scale protection.
- CE. ACS.

3) AUTOMATIC FOAM OR LIQUID SOAP DISPENSER

- Infrared sensor.
- Powered by 230/12V transformer .
- Peristaltic pump: the soap passes through a tube without coming into contact with the pump, preventing contamination and backflow.
- Precise and consistent soap dosage.
- Can be used with non-proprietary soap, for cost savings.
- Adjustable soap and air dosage to enhance foaming effect with remote control (foam soap).

4) ELECTRICAL 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 90 m/s. Airflow 102 m³/h.
- Sound level 67.4 to 71.2 dB max at 1 m.
- Heated or ambient air switch.
- Adjustable airflow and sound level.
- 1.2 mm white epoxy steel cover.
- ErP 1275/2008 compliant (standby consumption less than 0,5W).



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

SETTING ADJUSTMENTS



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



SENSOR RANGE:

The sensor range represents the optimum distance at which a person or hand must be placed to trigger the system.

The water faucet or soap dispenser sensor range can be changed with this button.

If needed, the sensor range can be adjusted as follow:

Press the **RANGE** button. Wait for the blue LED to flash quickly on the sensor.

Then press **(+)** to increase the range or **(-)** to decrease it.

NOTE: even in the event of a power cut, once the sensor range has been set using the remote control, it is memorised.



SOAP QUANTITY:

This function is for foam soap dispensers only.

Press this button to customized the soap quantity.

Wait for the quick blue LED flash on the sensor.

Then press **(+)** to increase the soap quantity or **(-)** to decrease it.

Each pressure will increase or decrease the quantity by one level.



AIR QUANTITY:

This function is for foam soap dispensers only.

Press this button to customize the air quantity to mix and enhance the foaming effect.

Wait for the quick blue LED flash on the sensor.

Then press **(+)** to increase the air quantity or **(-)** to decrease it.

Each pressure will increase or decrease the quantity by one level.



TEMPORARY OFF FUNCTION:

This function temporarily turns off the system for one minute to allow activities (e.g., cleaning) in front of the sensor without activating the water faucet or soap dispenser.

To cancel this function, press the On/Off button again or wait one minute.

 	SOAP TANK PRIMING: <u>This function is for foam/liquid soap dispensers only.</u> Once the soap tank has been filled/re-filled, press the FILL button. The pump will operate for one minute to initiate the soap flow through the dispenser spout. To stop this activity, press the FILL button again. If the soap has not started dispensing from the spout, press the FILL button again.				
 	SELF ADJUSTMENT MODE: <u>This function is for water faucets only.</u> Ensure that no objects are in front of the sensor. Press the ADJ button. As soon as the sensor's blue LED flashes quickly, remove the hand holding the remote control and move away from the sensor area. The ideal sensor range will be set automatically. Opening of the solenoid valve for one second to indicate that the adjustment is complete and the valve is ready to use.				
 	BACK TO FACTORY-SET (RESET): This function restores the sensor to its original factory settings. <u>On the faucet,</u> the RESET button restores all the factory settings except the sensor's range. Use the ADJ button to activate the self-adjustment mode. Use the RANGE button to change the sensor's range. Press and hold down the RESET button and, at the same time, press the (+) button once.				
 	SOAP DOSAGE: <u>This function is for liquid soap dispensers only.</u> Use the 1-4 drop buttons to select the desired soap dosage. Wait for quick flashing blue LED in the sensor. The exact dosage will vary depending on the soap viscosity. <table><tr><td> 0.7 to 0.9 cm³</td><td> 1.2 to 1.6 cm³</td><td> 1.6 to 1.9 cm³</td><td> 2.1 to 2.3 cm³</td></tr></table>	 0.7 to 0.9 cm ³	 1.2 to 1.6 cm ³	 1.6 to 1.9 cm ³	 2.1 to 2.3 cm ³
 0.7 to 0.9 cm ³	 1.2 to 1.6 cm ³	 1.6 to 1.9 cm ³	 2.1 to 2.3 cm ³		

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 six 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 two fixing screws on the stainless steel plate, then the two 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.

FOAM SOAP DISPENSER - FILTER CLEANING

This soap dispenser is supplied with a soap filter on the air compressor.

It is recommended to clean the filter every six months. A decrease in soap flow may indicate that the filter is clogged. To clean it, follow these steps:

1. Unscrew the chromed quick connector at the top of the soap compressor.
2. Remove the white filter and rinse it with clear water.
3. Reassemble the components.



MAINTENANCE AND CLEANING OF STAINLESS STEEL SURFACES

Do not use steel wool or cleansing agents containing alcohol, acid, abrasives, or similar substances as they can damage the stainless steel surface. For surface cleaning use only soap and water, then wipe and dry with a clean cloth or towel.

PROBLEM	INDICATOR	CAUSE	SOLUTION
No running water	The sensor's blue LED does not turn on when user's hands are within sensor range	The range is too short.	Increase range.
		The range is too long.	Decrease range.
		The unit is in "Security Mode".*	
		Sensor is picking up reflections from the washbasin.	Decrease sensor range with the RES-30 remote or eliminate reflection source.
	The sensor's blue LED flashes once when user's hands are within sensor range	Faulty connection/wiring between sensor and solenoid valve.	Re-connect sensor and solenoid valve properly.
		Dirt or scale in the solenoid.	Unscrew and clean the solenoid valve.
		The central opening of the diaphragm is blocked or torn.	Clean the opening or replace the diaphragm.
Water does not stop running	The sensor's blue LED flashes once when user's hands are within sensor range	The water supply pressure of the faucet is greater than 8 bars.	Decrease water supply pressure or use a pressure reducing valve.
	The sensor's blue LED does not flash when user's hands are within range	The sensor is dirty.	Clean or remove obstructions.
Weaker water flow		Sensor is picking up reflections from the washbasin.	Decrease sensor range with the RES-31 remote or eliminate reflection source.
		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.
		Faulty connection of 4-way waterproof connector.	The connector should be inserted fully until the white o-ring is no longer visible. Remove the o-ring if necessary.
	Sensor's blue LED does not flash when user's hands are within range	Faulty connection of 4-way waterproof 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.

PROBLEM	INDICATOR	CAUSE	SOLUTION
Soap runs continuously		Faulty connection of 4-way waterproof connector.	The connector should be inserted fully until the white o-ring is no longer visible. Remove the o-ring if necessary.
Foam too liquid (foam version)		Air ratio too low.	Use the RES-30 remote control to decrease the air ratio in the foam by pressing the «AIR -» button.
Foam too dense		Air ratio too high.	Use the RES-30 remote control to increase the air ratio in the foam by pressing the «AIR +» button.
The pump does not work	The sensor's blue LED flashes once when user's hands are within sensor range, and the foam soap dispenser does work.	Faulty connection between soap pump connectors and the compressor.	Connect the pump connector on the compressor connector.
The foam compressor does not work	The sensor's blue LED flashes once when user's hands are within sensor range, and the pump does work.	Faulty connection between sensor connectors and the compressor.	Connect the sensor connector on the compressor connector.

PROBLEM	TROUBLESHOOTING FOR INITIAL INSTALLATION FAILURE
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. 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 following the hand dryer label. 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. Check motor brushes for wear (≤ 30 mm of graphite) and replace if necessary.

LIMITED WARRANTY

The 3-year warranty for the water faucet and the hand dryer, and the 2-year warranty for the soap dispenser, against any manufacturing defect or malfunction, will, at the manufacturer's discretion, be replaced free of charge, or the defective part repaired.

If a defect is found during this period under normal use, the unit will, at SUPRATECH's discretion, be replaced, or the defective part repaired in the event of a material or manufacturing defect.

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.

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.

SUPRATECH

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