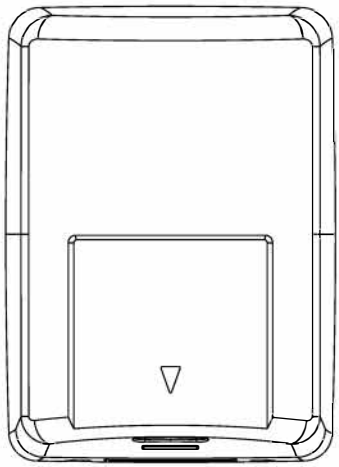
TSL +

HERITAGE

Hand dryer

Air Fury High Speed



TSL.89.W
TSL.89.C
TSL.89.CS

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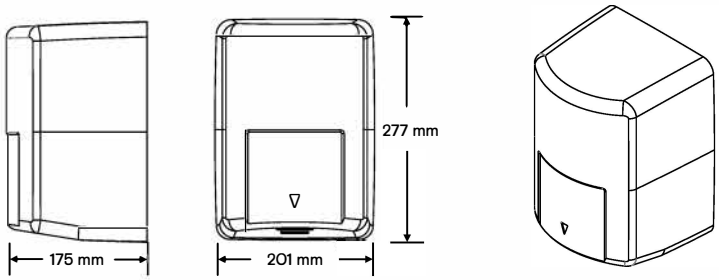
HIGHSPEED
Hand dryer

Operating Instructions and Parts Manual (Automatic)

Surface Mount



TECHNICAL SPECIFICATIONS

ITEM CATEGORY	PERFORMANCE DATA
Operating Voltage	220-240Vac, 50/60 Hz, 1.34-1.6 kW
Warm Air Speed Output	75-100 m/s (169-225 mi/hr), Adjustable
Motor Type	350-700W, 12000-18000 R.R.M, Adjustable; Brush Type, Dual Ball Bearings
Motor Thermal Protection	Auto Resetting Thermostat turns unit off at 95°C (140°F)
Heater Element	450-900W, Adjustable
Heater Thermal Protection	Auto Resetting Thermostat turns unit off at 85°C (185°F)
Drying Time	Less than 15 seconds
Stand-by Power	Less than 0.5W
Circuit Operation	Infrared Automatic, self adjusting
Sensor Range	Auto adjust; standard 170 mm ± 20 mm
Timing Protection	60 seconds auto shut off
Drip proof	IP23
Isolation	CLASS 1
Net Weight	5.8 kgs
Shipping Weight	6.6 kgs
Cover Type	TSL.89.W - Steel; White porcelain enamelled (t:1.6mm) TSL.89.C -Stainless steel; Bright finish. (#304 t:1.5 mm) TSL.89.CS - Stainless steel; Satin finish. (#304 t:1.5 mm)

General safety information

⚠ WARNING This product is intended for installation by a qualified service person. Use 2.0 mm² (AWG NO.14) solid conductor for wiring.

⚠ WARNING Disconnect power at the service breaker before installing or servicing. NOT FOR HOUSEHOLD USE - MAY CAUSE BURNS.

⚠ DANGER Failure to properly ground unit could result in severe electrical shock and/or death.

⚠ WARNING All units must be supplied with a 3-wire service. The ground wire must be connected to the dryer's backplate.

-- NOTE: Do not install dryer over washbasin --

[Type Y attachment]
If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard. Means for disconnection must be incorporated in the fixed. Wiring in accordance with the wiring rules.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless then have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

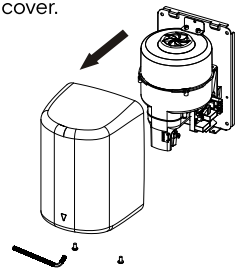
Children should be supervised to ensure that then do not play with the appliance.

Installation

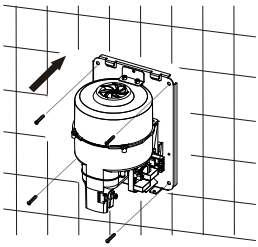
1. Make sure power supply breaker is switched off. Installation must be carried out in accordance with the current edition of the local wiring regulations code having jurisdiction. Installation should be performed only by a qualified electrician.
2. Place template against wall at desired height (see mounting height recommendations) and mark locations of 4 mounting holes and wire service entry at knockout (KO) location.

Note: For two or more dryers, dryers should be no closer than 610 mm on center.

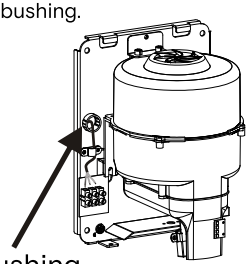
1. Remove and retain 2 cover screws and cover.



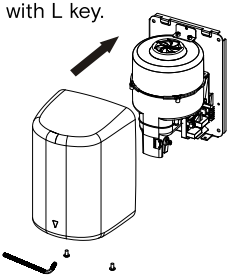
4. Fix the base plate to the wall with 4 screws of 1/4" x 1-3/4" dimension.



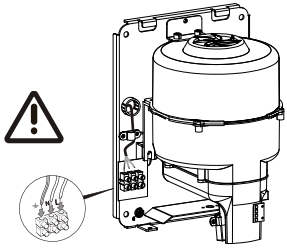
2. Insert the power cord into the bushing.



5. Put the front cover back and screw it with L key.



3. Connect the wire into terminal as below:



Connections:
A. Connect the live wire (colored red or brown or white) to the terminal block marked "L".
B. Connect the neutral wire (colored black or blue) to the terminal block marked "N".
C. Connect the ground wire (colored green and yellow) to the green screw marked "⏚".

Note that colors of live and neutral wires depend on voltage of supply service.

Recommended mounting heights

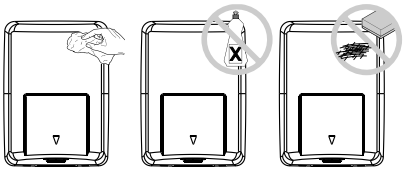
- from bottom edge of dryer above finished floor (AFF)

Men	1090 mm
Women	1040 mm
Children 11-17 years	990 mm
Children 3-10 years	840 mm
Handicaped	890 mm

Cleaning and Maintenance

Periodic cleaning of the unit is recommended to ensure optimum performance.

- Disconnect the electrical supply.
- Remove the two cover-mounting screws.
- Remove the cover.
- Clean all dust lint from the interior of the dryer.
- Wipe the cover with a damp cloth and mild cleaning solution. Do not Soak. Never use abrasives to clean the cover.
- Replace the cover. Do not over tighten the screws.

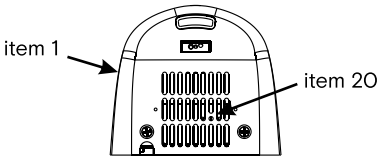


Operation

- No-touch operation
- Shake excess water from hands.
- Place hands under the outlet to start operation.
- Rub hands lightly and rapidly.
- Stops automatically after hands are removed.

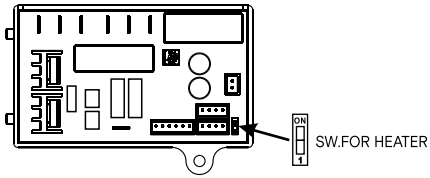
Warm air speed adjustment

Use flat blade screwdriver small enough to fit through access hole [Ø4.8mm] in bottom grille of cover (item 1). The adjustment potentiometer (item 20) is visible through the slots of the grille. With respect to axis of screwdriver viewed from handle end, gently turn adjustment potentiometer. shaft clock-wise [CW] to increase power to maximum (shaft will hard stop; DO NOT OVERTURN!). Turn tool gently CCW to reduce power as required (shaft will hard stop; DO NOT OVERTURN!). Note that at minimum power the unit may not start if low line Voltage condition exists.



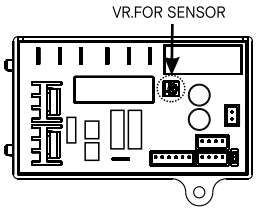
Heater Element Switch ON/ 1

1. Cut off the power, loosen the screw of the cover and remove the cover.
2. Adjust the heater switch on the PCB with a flathead screwdriver.
   2.1. Turn the switch to "ON": heater on.
   2.2. Turn the switch to "1": heater off.



Sensor range adjustment

1. The ranger is 100 mm to 230 mm, standard 170 mm ± 20 mm.
2. Clockwise: Lengthen the sensing range(+) ↻.
3. Counterclockwise: Shorten the sensing range(-) ↺.
4. DO NOT OVERTURN !

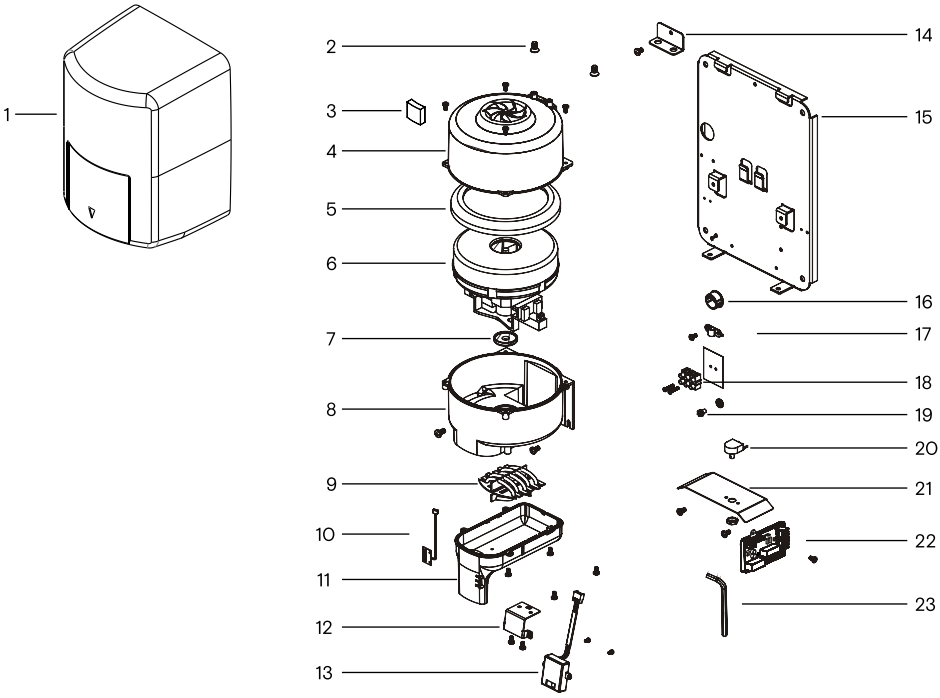


Diagnostics and Remedies

Symptom	Corrective Actions for Initial Installation Failures
If the dryer will not run	First ensure that the breaker supplying the dryer is operational. If it is, disconnect the power and remove the dryer cover. Taking suitable precautions to avoid shock hazard, reconnect the power and check for Voltage at the terminal block. Verify that connections are made correctly. Adjust the VR to make sure it is not set too low.
The dryer cycles by itself or runs constantly	Ensure that there is no obstruction on or in front of the IR sensor. Clean any dirt or debris off the sensor lens. If problem persists, replace sensor.
The dryer makes a loud noise and does not run for a complete cycle	Ensure that the supply Voltage is correct. Dryer will make a loud humming noise if the input Voltage is too high. Verify Voltage requirement on unit rating label and correct supply as required. If CBM has been damaged, replace CBM, IR sensor module and VR component and cable.
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 too low. Verify Voltage requirement on unit rating label and correct supply as required.

Symptom	Corrective Actions for In-Service Failures
If the dryer will not run	First ensure that the breaker supplying the dryer is operational. If it is, disconnect the power and remove the dryer cover. Replace the CBM and IR sensor module. Test the VR for open circuit. Taking suitable precautions to avoid shock hazard, reconnect the power and check for Voltage at the terminal block.
The IR sensor only "sees" close range objects	Ensure that there is no obstruction on or in front of the IR sensor. Clean any dirt or debris off the sensor lens. If problem persists, replace sensor.
The heater gets hot but no air stream is produced	Disconnect the power. Remove the dryer cover and disassemble the blower motor/fan housing. Replace the fan motor.
The dryer only blows cold air during a full cycle	Disconnect the power. Remove the dryer cover and disassemble the blower motor/fan housing. Test the thermostat for open circuit. Check the heater element for signs of burning or breakage. Damaged element must be replaced.
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. Disassemble the blower-motor/fan housing. Check the motor brushes for worn condition ($\leqslant$ 25/64" [10mm] graphite remains) and replace them, if necessary.

Diagram



Repair parts list

1	Cover
2	Security hex screw (2 reqd.)
3	Shock absorber
4	Blower housing - Top
5	Motor rubber - Large
6	Motor
7	Motor rubber - Small
8	Blower housing - Bottom
9	Heater assembly
10	LED assembly
11	Air outlet
12	Sensor bracket
13	Sensor module
14	Blower housing bracket
15	Base plate
16	Nylon hole bushing
17	Cable clamp
18	Terminal block
19	Grounding screw
20	VR (variable resistance)
21	VR bracket
22	Circuit Board Module
23	Security hex wrench