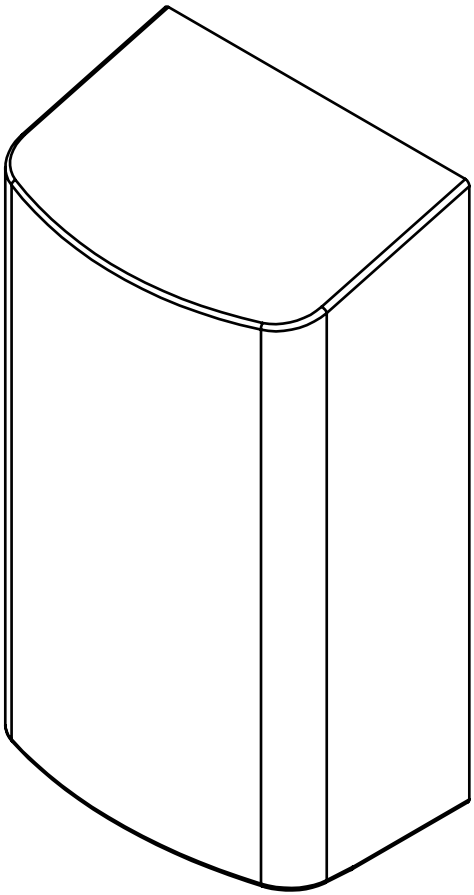
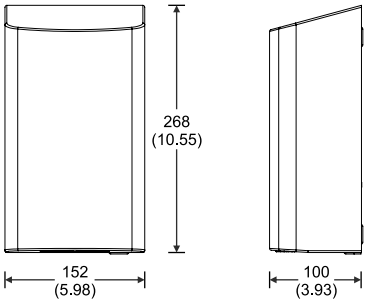
Hand Dryer

Automatic



Model : EcoSwift

Unit Size: mm (inch)



TECHNICAL SPECIFICATIONS

ITEM CATEGORY	PERFORMANCE DATA
Operating Voltage	110-120 Vac, 50/60 Hz, 7.6-8.4 A, 0.84-1.0 kW 220-240 Vac, 50/60 Hz, 3.8-4.2 A, 0.84-1.0 kW
Air Output Temperature	55 °C (131 °F) – Ambient Temp. 25 °C (77 °F)
Warm Air Speed Output	65-92 m/s (145.4-205.7 mi/h)
Dryer shall Deliver	89 m^3/h (52.4 CFM)
Motor Type	325-500 W, 22,000-29,000 R.P.M., Brush Type, Dual Ball Bearings
Motor Thermal Protection	Auto Resetting Thermostat turns unit off at 95 °C [203 °F]
Heater Element	325-500 W, Adjustable
Heater Thermal Protection	Auto Resetting Thermostat turns unit off at 85 °C [185 °F], Thermal fuse cuts unit off at 142 °C [288 °F]
Drying Time	Less than 10-15 seconds
Stand-by Power	0.3-0.4 W
Circuit Operation	Infrared Automatic, self adjusting
Sensor Range	4" to 9" [100 mm to 230 mm], Adjustable; standard 6.69" [170 mm ± 20 mm]
Timing Protection	60 seconds auto shut off
Drip proof	IP24
Isolation	Class 1
Net Weight	3.3 kg [7.2 lbs]
Shipping Weight	3.7 kg [8.1 lbs]

COVER TYPE/ COVER FINISH

EcoSwift01 - Stainless steel (#430), white powder coating finish (t:1.2 mm)
EcoSwift01B - Stainless steel (#430), black powder coating finish (t:1.2 mm)
EcoSwift04 - Stainless steel (#304), Bright finish (t:1.2 mm)
EcoSwift05 - Stainless steel (#304), Satin finish (t:1.2 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. Full pole disconnection device must be incorporated in the fixed wiring in accordance with the wiring rules.**
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: We do not recommend installing this dryer above a basin. If you are installing this dryer above a basin, please make sure that reflection won't occur.

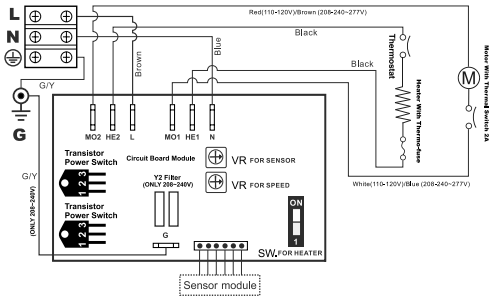
【Type Y attachment】

If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a qualified person in order to avoid a hazard. Disconnect the fixed wiring only 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 they 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 they do not play with the appliance.

Circuit Diagram

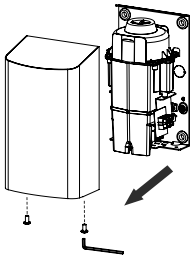


Installation

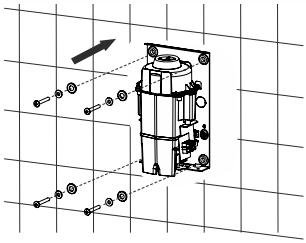
1. Make sure power supply breaker is switched off. Installation must be carried out in accordance with the current edition of the local wiring regulations code having jurisdiction. Installation should be performed only by a qualified electrician.
2. Place template against wall at desired height (see 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 24 inches (610 mm) on center.

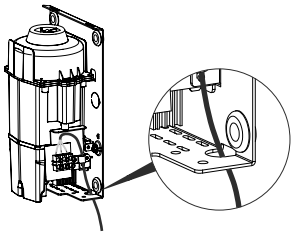
1. Remove and retain 2 cover screws and cover.



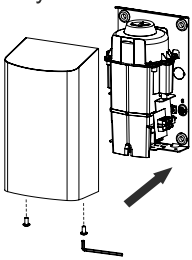
4. Fix the base plate to the wall with 4 screws of 1/4" x 1-1/2" dimension.



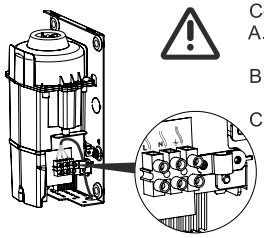
2. Insert the power cord into the opening.



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 black, brown or dark) to the terminal block where marked "L".
B. Connect the neutral wire (colored white, gray, blue or light) to the terminal block where marked "N".
C. Connect the ground wire (colored green or green 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	1270 mm	(50")
Women	1194 mm	(47")
Children 4-7 years	889 mm	(35")
Children 8-10 years	991 mm	(39")
Children 11-13 years	1092 mm	(43")
Children 14-16 years	1194 mm	(47")
Handicaped	1016 mm	(40")

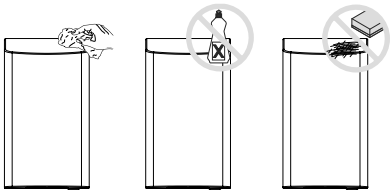
Operation

- 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.

Cleaning and Maintenance

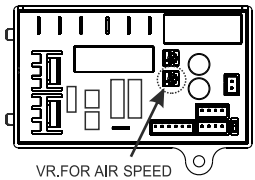
Periodic cleaning of the unit is recommended to ensure optimal performance.

- Disconnect the electrical supply.
- Remove the two cover-mounting screws.
- Remove the cover.
- Clean all dust lint from the interior of the dryer.
- Do not flush with water.
- 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.



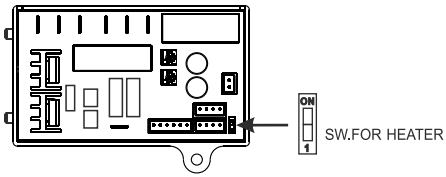
Warm Air Speed Adjustment

1.Switch off the power, loosen the cover screws and remove the cover.
2.Use small Philips head screwdriver or plastic flat blade probe to turn VR shaft. Clock-wise [CW] to increase power to maximum (+)↻,turn tool gently [CCW] to reduce power as required(-)↺.



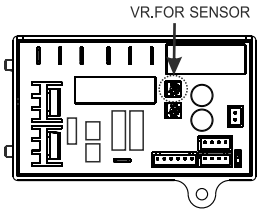
Heater Element Switch ON/ OFF

1.Switch off the power, loosen the cover screws and remove the cover.
2.Adjust the heater switch on the PCB with a small plastic or wood flat blade probe.
2-1. Slide the switch to "ON" : Heater on.
2-2. Slide the switch to "1" : Heater off.



Sensor Range Adjustment

1. The range is 4" to 9" [100 mm to 230 mm], standard setting is 6.69" [170 mm ± 20 mm].
2.Clockwise: Increases the sensing range(+)↻
3.Counterclockwise: Decreases the sensing range(-)↺
4.DO NOT OVERTURN!



Diagnostics and Remedies

Symptoms	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. Take suitable precautions to avoid shock hazard. Reconnect the power and check for voltage at the terminal block. Verify that connections are made correctly.
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 the unit rating label and correct power supply as required. If CBM has been damaged, replace CBM, IR sensor module.
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 the unit rating label and correct power supply as required.

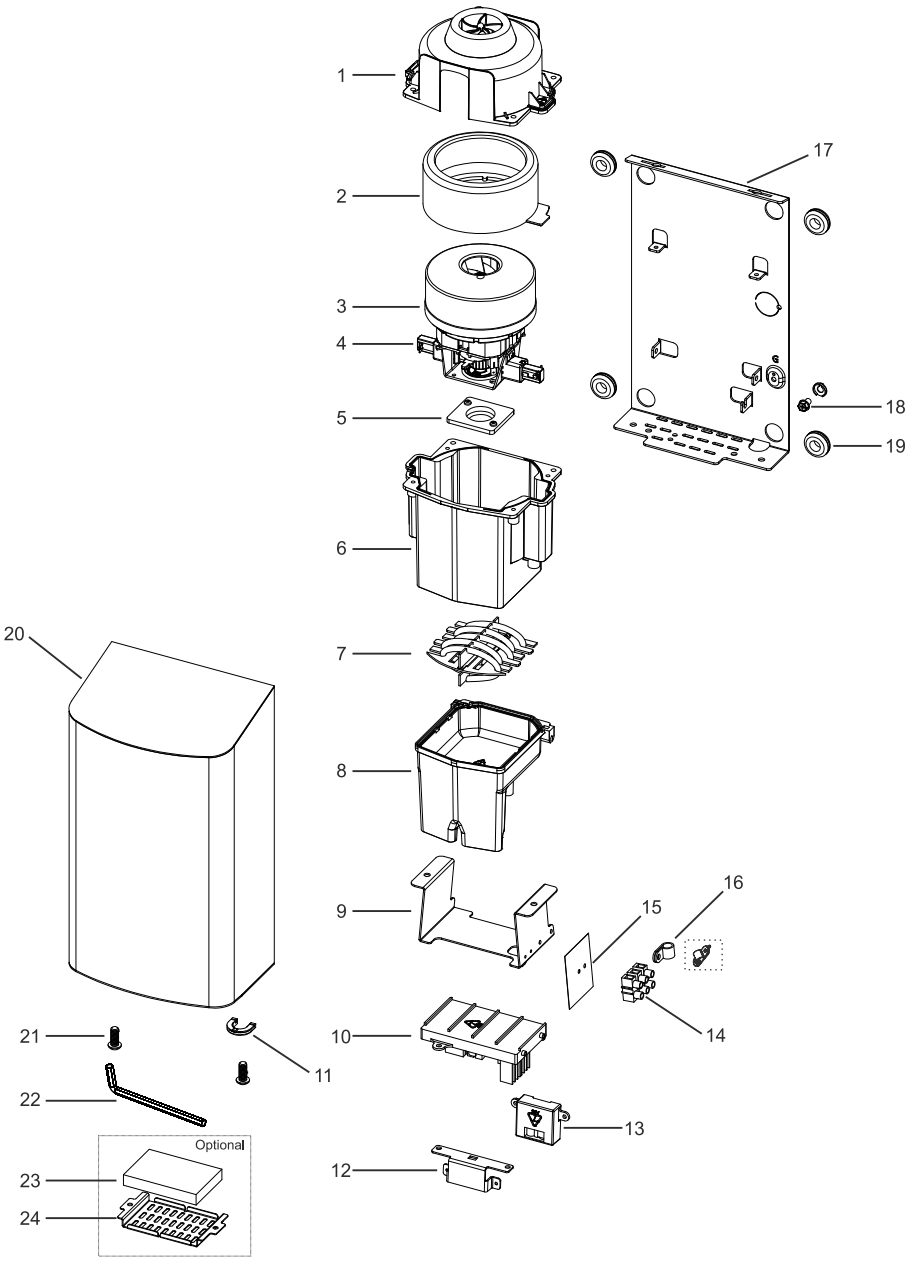
Symptoms	Corrective Actions for In-Service Failures
If the dryer will not run	First ensure that the breaker supplying the dryer is operational. If it is, disconnect the power and remove the dryer cover. Replace the CBM and IR sensor module. Take suitable precautions to avoid shock hazard. Reconnect the 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, disconnect the power and remove the dryer cover. Taking suitable precautions to avoid shock hazard, reconnect the power and try carefully adjusting the sensitivity control (yellow shaft in blue box on CBM) to increase the sensing range. 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 (≤ 25/64" [10 mm] graphite remains) and replace them, if necessary.

Important Information

This Product falls within the scope of the Waste Electrical & Electronic Equipment Directive 2012/19/EU. (WEEE)

NOTE:
This Product should not be disposed of with household waste
Please recycle where facilities exist.
Check with your local authority for recycling advice.

Diagram



Repair Parts List

Key	Description
1	Blower housing - Upper
2	Motor rubber - Large
3	Motor
4	Motor brushes
5	Motor rubber - Small
6	Blower housing - Below
7	Heater element
8	Air outlet
9	Air outlet bracket
10	Circuit Board Module
11	Cable protector
12	Sensor bracket
13	Sensor module
14	Terminal block
15	Insulation mylar shield with LNG marked
16	Cable clamp
	Cable clamp - EU
17	Base plate
18	Grounding screw with cup washer
19	Rubber grommet - Base (4 reqd.)
20	Cover
21	Security hex screw (2 reqd.)
22	L-Wrench
23	Filter assembly (Optional)
24	Filter assembly bracket (Optional)