SUPREME III
AIRFORCE

Installation & maintenance instructions

SPL

General Safety Information

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- Failure to disconnect the power source before installation can result in serious injury or death from electric shock. Always disconnect the power source before servicing or installing the hand dryer.
- Fixed wiring is recommended for all installations. Wiring should emerge from the wall in the position marked on the mounting diagram. All fixed wiring should incorporate a switch or breaker with a contract separation of at least 3mm in all poles.
- SPL (2021) Ltd accepts no responsibility for any damage or injury to property or persons caused by improper, incorrect or unreasonable use or installation.
- Failure to properly ground this unit could result in severe electrical shock and/or death. This hand dryer must be properly grounded (Earthed) for safe operation. An identified ground connection point is supplied on the chassis of the hand dryer. We recommend GFCI protection in wet or damp locations or as required by local code.
- Risk of fire, personal injury or property damage are possible if local codes, or safety recommendations are not followed. Installation must be carried out by a qualified person in accordance with all local wiring regulations.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The instructions contained within the Mounting Template must be followed carefully when installing this unit. Failure to accurately follow the instructions may result in the incorrect operation of this unit, damage to property and/or personal injury.
- 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.
- Do not insert objects into the air outlet, doing so can be hazardous and could result in electric shock.
- Do not obstruct the air inlets or outlets in any way.
- Do service your hand dryer at regular intervals.

Operating Instructions and Parts Manual

Please read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage. Retain instructions for future reference.

Supreme AIRFORCE Hand Dryer

The Supreme AIRFORCE hand dryer, powered by universal brushed motor, delivers 1100W of drying power and runs on 230V AC electrical supply. An infrared sensor is used to automatically activate the dryer. This model is intended for use in commercial, industrial, education sector, office and public facility environments.

Specifications

Cover	Die cast aluminium or Brushed Stainless Steel with SteriTouch finish
Motor	Universal Brushed 34,000 rpm
Power	1100W
Element	Nil - ambient temperature. Air warms as it passes over motor
Rating	220-240V AC, 50/60Hz, IP24
Switching	Infrared sensor
Sound Level	75 dBA @ 1.5m
Max Airflow	178 m3/hour @ 330km/h
Dimensions	271H x 266W x 165D mm
Weight	3.3kg
Warranty	The Supreme Comprehensive Hand Dryer Warranty
	36 Month Limited Warranty
Standards	Complies with New Zealand and Australian Standards

Recommended Mounting Heights

From Floor to Dryer Bottom Edge:

Men’s washroom	1100mm
Ladies’ washroom	1050mm
Children’s washroom 13-17yr	1000mm
Children’s washroom 10-13yrs	950mm
Children’s washroom 7-10yrs	900mm
Children’s washroom 4-7yrs	800mm
Disabled Person’s	950mm

Planning

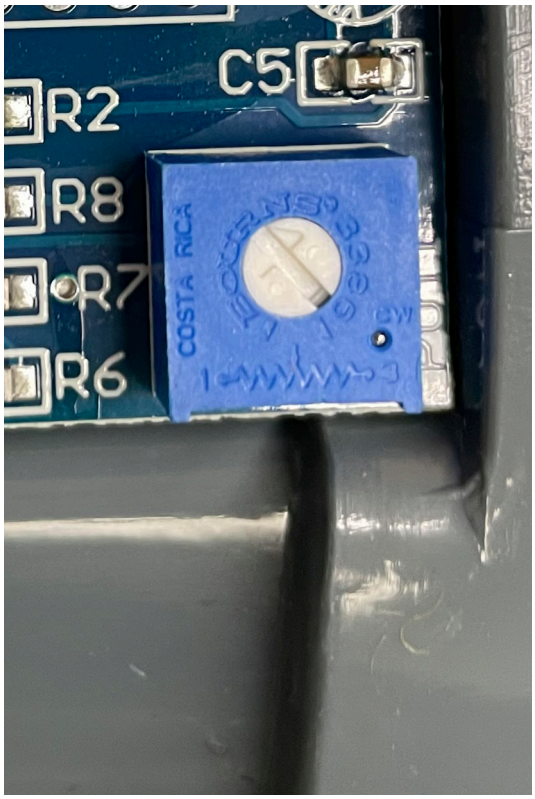
We suggest that one hand dryer be installed for every two hand basins.

Ensure that no reflective object (such as hand basin) is located directly under infrared sensor eye; the minimum distance is 460mm.

Installation Instructions

1. Disconnect power source.
2. Use the security hex key supplied and turn the cover mounting screws clockwise to remove the cover from the dryer.
3. Place the hand dryer base on the wall at the required location using recommended mounting heights. With the base located, use it as a template to mark locations of the four mounting bolt holes on the wall.
4. Fasten the base to the wall, using suitable fixings for the type of wall.
5. All automatic dryers must have their own dedicated 10 amp circuit.
6. Connect the dryer to the nearest suitable distribution panel.
7. Replace cover, turn screws counter-clockwise making certain not to over tighten.

Adjusting IR Sensor Distance



In some installation environments, sensing distance may need to be adjusted lower due to environmental conditions to eliminate unattended activation or ghosting. Installation close to a reflective surface, exposure to natural sunlight or other nearby IR activated devices can be conditions causing unattended activation. Lowering the IR sensor's sensing range/sensitivity can resolve this. To adjust the IR sensing range, remove the cover and locate the blue trimmer pot on the control board as shown.

CAUTION: These instructions involve adjusting the IR sensor trimmer POT with the power connected (live) to the hand dryer. The trimmer POT is located in a low voltage area of the electronic controls, but there is hazardous live voltage in other areas of the dryer when the cover is removed. Be careful making adjustments, if you are not experienced making this kind of "live" adjustment, do not attempt to make the adjustment.

Please see page 6 for instructions.

Instructions for IR Sensor adjustment:

To establish the initial sensing distance setting, place palm flat and horizontal well below the hand dryer; starting at a point where the dryer will not activate. Slowly move upward towards the dryer until the dryer activates and will sustain operation. Note the approximate distance between your palm and the bottom of the hand dryer. Adjusting the screw clockwise will increase the sensing distance/sensitivity; adjusting the screw counter-clockwise will reduce sensing distance/sensitivity. The trimmer POT has a high resolution adjustment. 20 to 40 degrees adjustment of the screw (from 3 o'clock position to 1 o'clock position) may be all that is needed for adequate adjustment. To eliminate unattended activation/ hosting, adjust the trimmer POT screw counter-clockwise 20 - 40 degrees and recheck sensing distance and repeat, as necessary, to reduce the sensing distance to a comfortable activation point that resolves the issue.

Maintenance Instructions

The following maintenance should be carried out six monthly in high traffic areas and twelve monthly in normal traffic areas. Your warranty could become void if the above is not performed at the specific intervals.

1. Isolate the dryer either by turning off the switch, normally located above the dryer or by unplugging the unit if fitted with a power cord.
2. Use the security hex key supplied and turn the cover screw clockwise until the bottom of the cover can be lifted out from the base plate and then push to unlatch from the top of base plate.
3. The motor inlet filter should be replaced if it appears clogged. You can reorder from our website www.splwashrooms.co.nz - search for consumables.
4. Brush any lint away with a soft brush.
5. To replace cover, replace cover squarely over base and push flat to wall. Screw cover mounting screws counter-clockwise and tighten until snug. Do not overtighten.
6. Liven dryer and test operation.

Troubleshooting

Symptom	Possible cause	Corrective action
Dryer fails to start.	No power to unit.	Check power to unit and connections.
	Sensor obstruction.	1. Check sensor lens for foreign material or dirt. Clean lens with soft damp cloth and mild cleaning agent.
		2. If lens is damaged or scratched, replace it. Part number WD207K.
	Faulty motor.	If relay “click” is heard, but unit does not start, replace the motor/fan assembly. Part number WD707.
	Defective PCB or Sensor.	Listen for PCB relay “click”, if no “click” is heard, an Electronic Upgrade kit is required. Part number WD600K.
Dryer will not shut off or is running for 20 seconds or until it times out.	Sensor obstruction.	1. Check sensor lens for foreign material or dirt. Clean lens with soft damp cloth and mild cleaning agent.
		2. If lens damaged or scratched, replace it. Part number WD207K.
	Sensor receiving false signal or reflection.	1.Ensure that no reflective object (such as hand basin) is located directly under infrared sensor eye; the minimum distance is 460mm.
		2. Check if other infrared operated appliances in the vicinity may be triggering the dryer.
		3. Replace the PCB and sensor. Electronic Upgrade kit - Part number WD600K.
Burning smell/ crackling noise.	Defective motor.	Replace motor. Part number WD707.
Motor will start and slow down, then speed up.	Defective PCB.	Replace PCB. Part number WD500K.

Supreme Hand Dryer Limited Warranty

Your Supreme hand dryer is fully guaranteed against defective materials and faulty workmanship commencing from the date of sale (according to SPL's records), subject to it being installed and maintained in accordance with the manufacturer's instructions.

SPL (2021) Limited warrants that should any part of the dryer fail within the given warranty period (2 - 5 years product dependant), it will be remedied by SPL.

The dryer should be returned to SPL (2021) Limited for all warranty claims. The cost of cartage will be payable by the customer.

Due to the significant variation in tradesmen's knowledge, experience, and productivity, labour charges will NOT be accepted unconditionally. We strongly recommend contacting our office for advice before proceeding with any warranty repairs.

This warranty excludes:

- Incorrect installation, or installation that does not specifically follow the installation guidelines supplied
- Defects arising from improper installation, or incorrect electrical supply where applicable
- Failure to follow manufacturer's maintenance instructions
- Damage/Failure resulting from:
  - the use of non-authorised parts
  - authorised parts not installed in accordance with the manufacturer's instructions
  - accidental damage, negligent use, misuse, vandalism, neglect
  - damage caused either directly or indirectly by external sources (power outages, power surges, incorrect power supply, natural disaster, or insect infestation)
- Water ingress caused by property maintenance or flooding
- Negligent cleaning practices (water ingress, harmful chemical etc)

The above includes consequential damage to any other goods, furnishings, or property.

- Normal wear and tear and consumable parts (HEPA filters, UV-C lamps, fuses, motor brushes etc)
- This warranty does not displace any statutory warranty in relation to the dryer but any liability of SPL (2021) Limited under any statutory warranty will be limited to a replacement or repair of the dryer or payment of the cost of such replacement or repair at the sole discretion of SPL (2021) Limited

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