

Sanitize + Dry™

Kills 99.99% of Common Germs and Viruses¹



Please read and save these instructions. Read carefully before attempting to assemble, install, operate or service 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.

¹Kills 99.99% of common germs in the drying air and on surfaces exposed to the drying air. Laboratory tests confirm 99.99% efficacy against Influenza A, SARS-CoV 2 (Covid-19), Norovirus, Rhinovirus (human cold virus), E. coli, Staphylococcus Aureus, Methicillin-Resistant Staphylococcus Aureus (MRSA), and Enterococcus Faecium. Results project efficacy against a broad range of illness-causing germs; efficacy against a different specific germ may be less.



WORLD DRYER

World Dryer Corporation

3602 W. Washington St., Suite 200
Phoenix, AZ 85009 U.S.A.
800-323-0701
www.worlddryer.com

Electrical Specifications

Models	Type	Ratings	Certifications
S-XXXXA	Automatic	115 / 230 VAC 950W and 277 VAC 1150W 50/60Hz IP24	
S-XXXCE		230 VAC 950W 50/60Hz IP24	

General Safety Information

DANGER

Failure to disconnect the power source before installation or servicing can result in serious injury or death from electric shock. Always disconnect the power source before servicing or installing the dryer.

This dryer incorporates a chassis ground connection for protection against the risk of electric shock. This dryer must be properly grounded for safe operation. Failure to properly ground the dryer could result in severe electrical shock and/or death.

Warning

Risk of fire, personal injury or property damage are possible if local codes or safety recommendations are not followed. This dryer must be installed in accordance with current local electrical codes such as the NEC (National Electrical Code) or CEC (Canadian Electrical Code).

This hand dryer is not intended for use by young children or persons with physical, sensory or mental disabilities unless adequately supervised by a responsible person to ensure they can use the hand dryer safely. Young children should be supervised to ensure they do not play with the hand dryer. Use this dryer only for its intended purpose. Do not use as a hair dryer.

Installation and servicing should only be performed by qualified electrical technicians.

Use only an electrical voltage and frequency consistent with the dryer's rating label. Connect the hand dryer to a suitable distribution panel with a disconnection means complying with local wiring codes and having an electrical rating greater than shown on the dryer's rating label. Use No. 14 AWG (2.08mm²) or larger wire. Do not connect to a circuit supplying lighting or other appliances. The dryer must be connected to an independent circuit. The supply circuit must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility. Use fittings with smooth rounded surfaces for protection of power supply cables. Route all field wiring away from moving parts within the dryer.

 **Warning** Cancer and Reproductive Harm - www.p65warnings.ca.gov

Caution

Improper mounting could result in personal injury or property damage. Follow the mounting height recommendations in Table 2. On a stud wall, one side of the hand dryer should be mounted to an existing stud.

Unboxing

Packaged items should include hand dryer, owners manual, mounting template and tamper-proof wrench. Review and report any missing or damaged items.

Installation

- 1. Disconnect the power source at the distribution panel.
- 2. Determine the recommended mounting height for gender/age (Table 2). **IMPORTANT:** This dryer includes an infrared sensor. For proper sensing, select a mounting location where no reflective surfaces (countertop or wash basin) are closer than 18 in (46 cm) below the dryer. Avoid mounting where the dryer may be directly exposed to natural light (sunlight). When mounting adjacent to an existing dryer, the dryers should be spaced at least 24 in (61 cm) apart.

Table 2

Recommended Mounting Heights from Floor to Dryer Bottom	in. (cm.)
Men's washrooms	46 (117)
Women's washrooms	44 (112)
Children's washrooms, ages 4-7	32 (81)
Children's washrooms, ages 7-10	36 (91)
Children's washrooms, ages 10-13	40 (102)
Children's washrooms, ages 13-17	44 (112)
Handicap Mounting Height	37 (94)

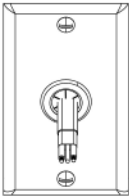
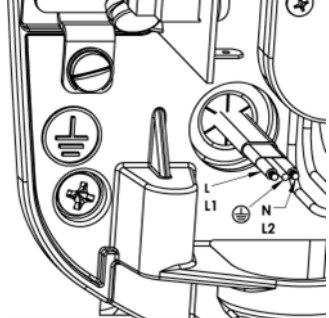
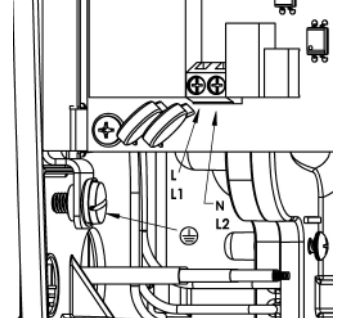
- 3. Select appropriate access for electrical connections through the rear or bottom of the dryer's mounting plate. See Thru-Wall and Bottom Entry Conduit – Supply Wiring (pg 4)
- 4. Use the mounting template provided, mark locations for the mounting fasteners on the wall. For stud walls, ensure at least one fastening location will be secured to a stud.
- 5. Use the tamper-proof wrench supplied to loosen the cover mounting screws (**turn screws clockwise** ↻) to remove the cover from the dryer.
- 6. Fasten the base to the wall, using the type of bolts recommended (Table 3).

Table 3

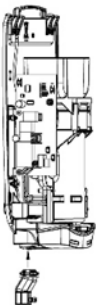
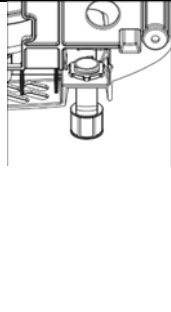
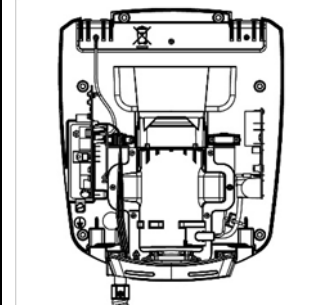
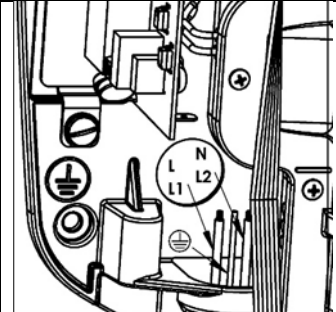
Type of Wall	Type of Bolt
Hollow Tile, Lath, Wall Board or Metal	No 10 (M5) Screw Type or Wing Type Toggle Bolts
Cement, Brick, or Tile Covered Cement or Brick	No 10 (M5) Flanged Plastic Anchors for Block or Brick
Stud Wall	No 12 (5.5 mm) Wood Screws

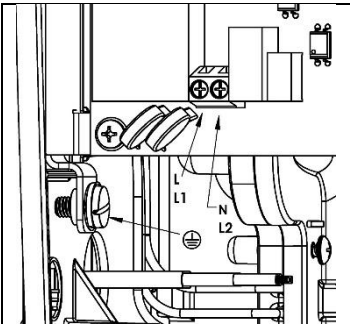
- 7. Connect the dryer to the supply wiring.
- 8. Replace cover, tighten cover mounting screws (**turn screws counter-clockwise** ↺) making certain not to over-tighten.
- 9. Connect the power source at the distribution panel.

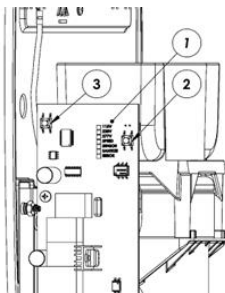
Thru Wall – Supply Wiring Connections

		
1 Prepare supply wiring.	2 Secure dryer base to wall.	3 Complete supply wiring connections.

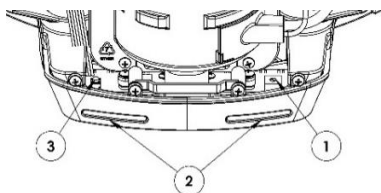
Bottom Entry Conduit – Supply Wiring Connections

			
1 Attach offset connector to dryer base for bottom entry.	2 Attach dryer base to wall. Secure conduit to connector.	3 Supply wiring identification.	

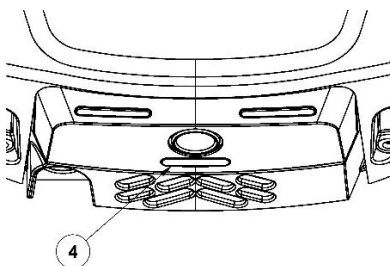

4 Complete supply wiring connections



- 1 **Status Indicators** indicates status of supply voltage/power, dryer speed, dryer sensor and sanitizing feature.
- 2 **Dryer Speed Control** IMPORTANT: DO NOT ADJUST DRYER SPEED WHILE DRYER IS RUNNING. Press and release to change dryer speed. With each press/release, speed will adjust to the next speed (Hi – Med – Low). When selected dryer speed is Med or Low, the “Speed” Status Indicator is lit. Factory default setting is High speed.
- 3 **Sanitize Reset** Resets the Sanitizing Fault Indicator (see page x). Press and release when troubleshooting to confirm sanitizing fault. Press and hold for 5 seconds to override the fault indicator.

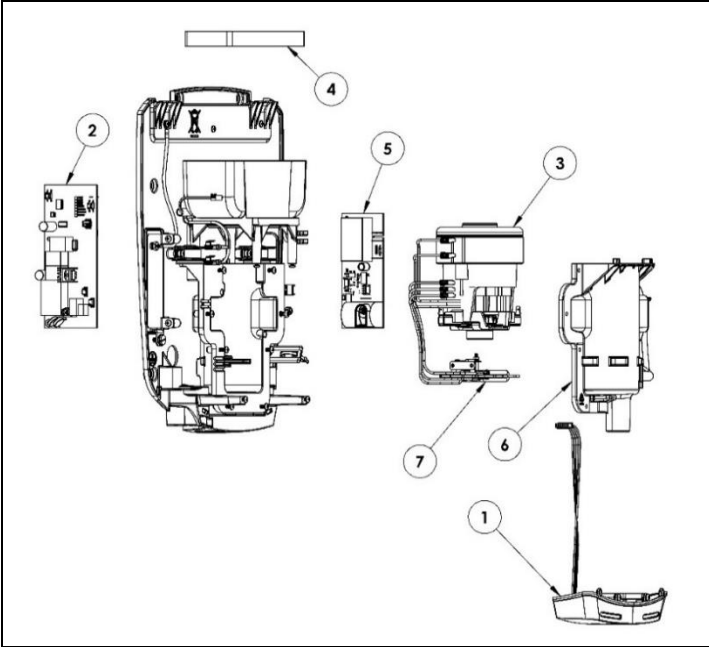


- 1 **Sensing Distance** can be adjusted from the factory setting when installation conditions involve external factors that may cause inadvertent dryer activation (reflections from nearby surfaces, exposure to natural sunlight or other infrared sources). To measure sensor distance settings, place palm of hand horizontally below the sensor; beginning at a distance where the dryer is not activated and slowly move up toward the sensor until the begins to run. To reduce sensor distance, turn the adjustment **counter-clockwise**. ⚙️ Make adjustments in small increments and recheck sensor distance setting.



- 2 **Sanitizing Fault Indicator** flashes when insufficient sanitizing function is detected. See TroubleShooting on page 7 and Sanitize Reset feature on page 5.
- 3 **Accent Lighting Mode** can be adjusted to operate continuously or only when the dryer is activated for drying hands (default factory setting). Most energy efficient operation is with the default factory setting. To change the lighting mode, press / release the light mode switch.
- 4 **Sensor Lens**

Service Parts



For Repair Parts, contact
Customer Service at
1-800-323-0701.

Please provide following
information:

- Model number
- Serial number
- Part descriptions and number
shown in parts list

#	Description	Part Number
1	IR Sensor with Accent Lights (for Models with White or Stainless Steel Covers)	49-10590CK
	IR Sensor with Accent Lights (for Models with Black Covers)	49-10590BK
2	Main Dryer Controls	16-10588K
3	Blower Motor	32-10268K
4	Filter (Standard)	93-10587
5	Sanitizing Controls	93-10603K
6	Front Plenum with Sanitizing Module	47-10606K
7	Heating Element	21-10589K
8	Replacement Motor Brushes (not shown)	32-10337K
9	Kit, Security Screws (includes Wrench; not shown)	46-040221K

Cleaning & Maintenance

IMPORTANT: The dryer may collect lint and debris naturally present in the air. Excessive build up of lint and debris can damage the motor and heating element. The dryer should be inspected /cleaned on a routine schedule to maintain good operating condition. With light to moderate wash room traffic, cleaning once a year is recommended. With high wash room traffic, cleaning every 6 months is recommended.

To clean the hand dryer:

1. Use the tamper-proof wrench supplied to loosen the cover mounting screws. Turn screws **clockwise** ↻ to remove the cover from the dryer.
2. Use a soft-medium bristle paint brush to clean lint, dust and debris from the air intake slots, and the dryer's interior.
3. After cleaning, reassemble the dryer cover using the tamper-proof wrench. Turn the cover mounting screws **counter-clockwise** ↻ and tighten until snug. Do not over tighten.

To clean the hand dryer cover:

1. Clean the cover's exterior surfaces with warm water and mild soap or detergent. Wipe and dry. We recommend using a clean microfiber cloth or a soft clean cloth to polish and dry.
2. Do not use abrasive powders or liquids, window sprays, ammonia, acidic or vinegar-based cleaners or cleaning products containing chlorine bleach. Using these types of cleaning products may damage the cover finish.

Filter Replacement

The filter prevents harmful debris from damaging the dryer's blower motor. Always operate the dryer with the filter in place and replace the filter when debris covers the filter's exposed surface.

Troubleshooting

Symptom	Cause	Trouble-Shooting / Fix
Dryer fails to start.	Incoming Power Supply	Confirm circuit breaker is switched ON
	Defective PCB	With power ON, confirm at least 1 of Status Indicators (pg 4) is lit. If none of the Status Indicators are lit, replace the Main Dryer Controls .
	Sensor Locked Out	With power On, check if the "Sensor" Status Indicator (pg 4) is flashing. If the indicator is flashing, check sensor lens for obstruction or foreign material. Clean lens with soft damp cloth and mild cleaning agent. Confirm there are no objects or reflective surfaces (countertops, etc) closer than 18" inches (46cm) below the sensor. See Sensing Distance adjustment instructions (pg 4)
	Defective Sensor	If Main Dryer Controls and Incoming power supply are confirmed active, and "Sensor" Status Indicator does not light when hands are placed under the dryer, replace the IR Sensor .
	Motor Brushes at End of Service Life	Check for signs of excessive motor brush wear (excessive arcing, inconsistent activation when Sensor detects hands) and replace as necessary. Typical motor service life involves replacing one set of motor brushes after years of service.
	Defective Heating Element (Important: Applies only when connected to 208 – 277V power supply)	If dryer is connected to 208 – 277V power supply and other possible causes have been checked, replace the heating element.
Dryer too loud.	Adjust Dryer Speed Setting	See Dryer Speed Control (pg 4)

Troubleshooting – Cont'd

Symptom	Cause	Trouble-Shooting / Fix
No heat. The dryer's heating fluctuates / goes "On" and "Off" during a drying cycle. The dryer speed fluctuates up and down during a drying cycle.	Defective Heating Element (Important: Applies only when connected to 120V power supply)	Replace heating element.
Dryer will only run a few seconds and then stops. Dryer will not activate every time.	Motor Brushes at End of Service Life	Check for signs of excessive motor brush wear (excessive arcing, inconsistent activation when Sensor detects hands) and replace as necessary. Typical motor service life involves replacing one set of motor brushes after years of service.
Sanitizing Fault Indicator Flashing	Faulty Chassis Ground Connection	Confirm chassis ground connection.
	Defective Heating Element or Heating Thermal Protector Open	Check electrical continuity through heating element (black and white element leads). If heating element is open (no continuity), replace heating element.
	Defective Sanitizing Controls	Press/release Sanitize Reset (pg 4). Place hands under sensor to activate dryer. If Sanitizing Fault Indicator begins flashing again after reset, replace Sanitizing Controls .

World LIMITED TEN – YEAR WARRANTY. World Warm Air Hand Dryer, Model covered in this manual, is warranted by World Dryer Corporation to the original user against defects in workmanship or materials under normal use for 10 years after date of purchase. This warranty excludes normal wear and tear and expendable parts such as filters, motor brushes, and accent lighting. Any part which is determined to be defective in material or workmanship and returned to an authorized service location, as World designates, shipping costs prepaid, will be, as the exclusive remedy, repaired or replaced at World's option. For limited warranty claim procedures, see PROMPT DISPOSITION below. This limited warranty gives purchasers specific rights from jurisdiction to jurisdiction.

LIMITATION OF LIABILITY. To the extent allowable under applicable law, World's liability for consequential and incidental damages is expressly disclaimed. World's liability in all events is limited to and shall not exceed the purchase price paid.

WARRANTY DISCLAIMER. World has made a diligent effort to provide product information and illustrate the products in this literature accurately; however, such information and illustrations are for the sole purpose of identification, and do not express or imply a warranty that the products are MERCHANTABLE, or FIT FOR A PARTICULAR PURPOSE, or that the products will necessarily conform to the illustrations or descriptions. Except as provided below, no warranty or affirmation on fact, expressed or implied, other than as stated in the "LIMITED WARRANTY" above is made or authorized by World.

PRODUCT SUITABILITY. Many jurisdictions have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. While World attempts to assure that the products comply with such codes, it cannot guarantee compliance, and can not be responsible for how the product is installed or used. Before purchase and use of a product, review the product application, and all applicable national and local codes and regulations, and be sure that the product, installation, and use will comply with them.

Certain aspects of disclaimers are not applicable to consumer products; e.g., (a) some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you; (b) also, some jurisdictions do not allow a limitation on how long an implied warranty lasts, consequentially the above limitation may not apply to you; and (c) by law, during the period of this Limited Warranty, and implied warranties of implied merchantability or fitness for particular purpose applicable to consumer products purchased by consumers, may not be excluded or otherwise disclaimed.

Manufactured by World Dryer Corporation, Phoenix, Arizona 85009 U.S.A

PROMPT DISPOSITION. World will make a good faith effort for prompt correction or other adjustment with respect to any product which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom the product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to World at address below, giving dealer's name, address, date, and number of dealer's invoice, and describing the nature of defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.