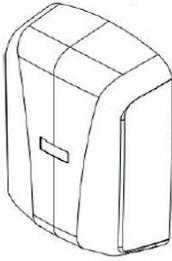


## OPTIMA AIR™ HAND DRYER EHD-700 SERIES

# INSTALLATION AND OWNERS MANUAL

## CONTENTS OF BOX



**1** Hand Dryer



**2** Tamper-Proof 5/32" Hex security bit wrench  
Knockout Gasket (Included for use with White Model only)



**3** Installation and Owners Manual

## MODEL INFORMATION

Dryer Model

Serial Number

Date Of Purchase

## LIMITED WARRANTY

Sloan Valve Company warrants its Optima Air™ Hand Dryer to be made of first class materials, free from defects of material or workmanship under normal use and to perform the service for which it is intended in a thoroughly reliable and efficient manner when properly installed and serviced, for a period of five years (1 year for special finishes) from date of purchase. During this period, Sloan Valve Company will, at its option, repair or replace any part or parts which prove to be thus defective if returned to Sloan Valve Company, at customer's cost, and this shall be the sole remedy available under this warranty. No claims will be allowed for labor, transportation or other incidental costs. This warranty extends only to persons or organizations who purchase Sloan Valve Company's products directly from Sloan Valve Company for purpose of resale.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO EVENT IS SLOAN VALVE COMPANY RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY MEASURE WHATSOEVER.

## IMPORTANT SAFETY INSTRUCTIONS



**WARNING:** For proper electrical connections, check your local building codes. Your unit must be installed by a qualified, licensed electrician.

# READ AND SAVE THESE INSTRUCTIONS

## INSTALLATION INSTRUCTIONS

### PRE INSTALLATION WIRING

Check that the electrical supply corresponds to that shown on the rating sticker of unit. If the dryer is connected to any electrical supply other than that stated on the rating sticker of the unit, permanent damage or improper, unsafe operation of the unit may result.

- Make sure electricity is switched off at the main panel before installing, maintaining or cleaning this hand dryer. Dryer must be installed in accordance with current local wiring and building regulations.
- **Do not** wire this hand dryer into the lighting circuit. It must be protected by an independent circuit.

- Dryer is intended to be permanently connected to power supply, and must be properly grounded.

### SAFETY

- Troubleshooting and internal maintenance must be performed by qualified service personnel.
- **Do not** use any power wash equipment for cleaning on or near this unit.
- **Do not** use the dryer for drying hair.
- **Do not** obstruct air inlets or outlets.

### INSTALLATION INSTRUCTIONS

1. Disconnect the power source previously brought to the hand dryer location (see pre installation wiring above).
2. Use the Tamper-Proof Wrench supplied and remove the Tamper-Proof Bolt on bottom of cover lifting upwards to remove cover from base plate.
3. If electrical wiring entry is to be made from the rear, remove the appropriate pre-formed knockout on the base plate. FOR WHITE Only - If entry is to be made from the side, knock out the pre-formed area on the right side of cover for your supply connection using knockout gasket provided. A rigid conduit must be used.
4. Select the appropriate mounting height for dryer (Table 1) and fastener, as recommended (Table 2). There should be no obstruction between the hand dryer and the floor. If mounting over a countertop, distance from counter to dryer must be 15" (381 mm) minimum.

**CAUTION: Do not use Base Plate as a guide when drilling. Make sure no pipe work (gas, water, air) or any electrical cables or wires are located directly behind the area to be drilled.**

5. Attach Base Plate at the four corners to smooth wall. Use one of 2 knockouts provided for service entry on back of Base Plate. If using surface wiring use knockout in right side of cover. Use Knockout Gasket supplied around conduit for water seal. See Mounting Details.

6. Identify the voltage of your dryer from the rating sticker of the unit. Then connect to a dedicated branch circuit not exceeding 20 Amp. per your local wiring and building regulations.
7. Secure electrical wiring to terminals as indicated by the schematic affixed to blower housing. An identified ground connection point is supplied on the Base Plate for your equipment ground wire. Dryers should be installed per local code requirements.
8. In multiple installations, make sure the serial number marked on the inside matches the cover number. Then carefully replace Cover by inserting top of cover over bracket and tilting downward. Use Tamper-Proof Bolt previously removed in step 2.
9. Restore power and test for proper operation.
10. Return Tamper-Proof Wrench to owner.

**TABLE 1**

#### 1 SUGGESTED MOUNTING HEIGHT

from floor to bottom of dryer:	
Men	45" (114 cm)
Women	43" (109 cm)
Teenagers	41" (104 cm)
Small Children	35" (89 cm)
Handicapped	37" (94 cm)

**TABLE 2**

#### 2 MOUNTING HARDWARE

<b>Recommended Fastener</b> (not supplied):	
Masonry Wall	½" Expansion Sleeve with ¼" Lag Bolt
Hollow Wall	¼" Wing Type Toggle Bolt
Wooden Wall	¼" Lag Screw With Washer

# READ AND SAVE THESE INSTRUCTIONS

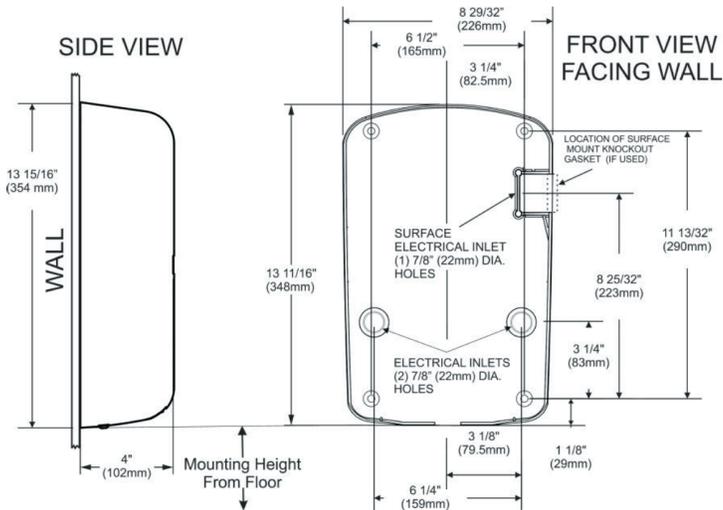


**WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

- A. Use this unit only in the manner intended by the manufacturer.**
- B. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.**

## MOUNTING DETAILS

### MOUNTING DETAILS



### CLEANING / MAINTENANCE

**OUTSIDE:** Gently wash Cover (including air inlet holes) using a soft cloth or sponge and a mild soap or detergent with lukewarm water to loosen dirt and grime.

**INSIDE:** Sloan recommends inspecting the inside of the dryer and cleaning as required at least once per year, or if performance diminishes. Heavier usage, or an environment that contains excessive lint, dust or other particles, requires more frequent cleaning. Lint on the air inlet, the Pre-Filter, or other internal parts of dryer will reduce efficiency and shorten the life of the working parts.

**TO CLEAN:** Shut off power to dryer at service connection. Uses the Tamper-Proof Wrench supplied and remove the Tamper-Proof Bolt on bottom of cover lifting upwards to remove cover from base plate. Gently clean all parts using a small, soft brush. Unclip the Pre-Filter, rinse with water and dry. Re-install.

## TROUBLESHOOTING

### Dryer does not turn on

1. Check power to the unit and connections. Verify dryer is receiving voltage at Terminal Block.

2. Check RED service LED light for the following:

Light is **ON** – Place hands under Sensor. If light stays on, then replace Sensor. If light goes off, check to make sure wiring is correct. If OK, check wire connecting to Motor. If both are OK, replace Motor.

Light is **OFF** – Check for loose, disconnected or improper wiring (See wiring schematic on blower housing) or replace Control Assembly.

Light is **FLASHING** – See error codes in CODE chart

### Dryer does not Shut Off

1. May be mounted too close to a counter or object (adjust Sensor range).
2. Check for loose, disconnected or improper wiring at Control Assembly (refer to wiring schematic affixed to blower housing).
3. Replace Control Assembly

### Dryer blows only cold air

1. Check heat setting on control.
2. Check for loose connections to Heating Element.
3. Replace Heating Element.

### Dryer does not Always turn on, or turns on by itself

1. May be mounted too close to counter or object (adjust Sensor range).
2. Check for foreign material on Optical Sensor next to Air Outlet.
3. Check for loose wires on Control Assembly.
4. Replace Control Assembly.

### Dryer heats up but no air comes out

1. Check wire connection to Motor.
2. Replace Motor.

### Dryer has loss of air volume

1. Check motor speed setting (Labeled "M") on control. Turn clockwise to increase.
2. Check for slow running Motor or burning smell. If so, replace Motor.
3. Check Pre-Filter for lint buildup. Clean by removing Pre-Filter and rinse in warm water then dry Pre-Filter before reinstalling.

## TROUBLESHOOTING (CONT.)

### ADJUSTING THE HEAT OUTPUT, MOTOR SPEED AND SENSOR RANGE

The dryer is shipped with maximum heat and maximum motor speed. To adjust, turn the corresponding knob COUNTERCLOCKWISE to reduce. H = HEAT M = MOTOR R = RANGE

## CODE CHART

Codes are displayed by the flashing of the red LED light in the sensor behind air outlet.

Normal operation will be indicated by the red LED being on when not drying and off when hands are under the sensor.

### DRYER MAINTENANCE CODES

1 SHORT / 1 LONG FLASH	Clogged Pre-Filter	Remove and clean Pre-Filter	Dryer will continue to run
1 SHORT / 2 LONG FLASH	Severely clogged Pre-Filter	Remove and clean Pre-Filter	Dryer will stop
2 SHORT / 1 LONG FLASH	In Lockout Mode	Remove obstruction or adjust sensor range	Dryer will stop until obstruction cleared or sensor range is adjusted

### MOTOR PROBLEM CODES

1 LONG / 3 SHORT FLASH	Motor Over Current	Measure voltage across the Terminal Block. If OK, replace Motor	Dryer will stop
1 LONG / 4 SHORT FLASH	Motor Under Current	Measure voltage across the Terminal Block. If OK, replace motor	Dryer will stop

### HEATER PROBLEM CODES

2 LONG / 3 SHORT FLASH	Shorted or incorrect Heater	Replace Heating Element	Dryer will stop
------------------------	-----------------------------	-------------------------	-----------------

If problems cannot be resolved with the above troubleshooting steps, please call Sloan at 1.888.756.2614 and one of our trained technicians will be happy to assist you.

The information contained in this document is subject to change without notice.