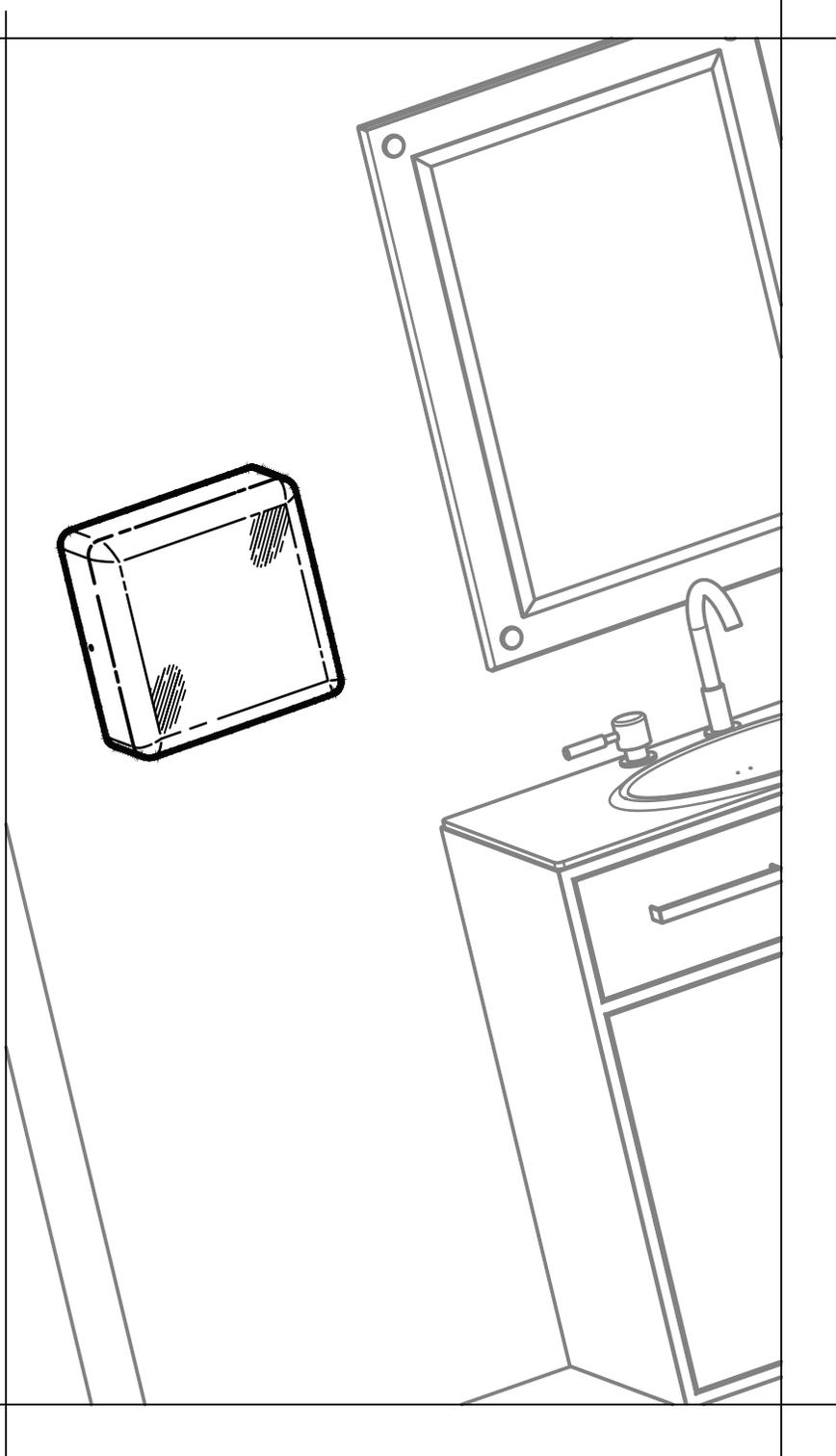


WILLOW HAND DRYER



MODEL NO.s

405-10-BLA
405-10-CHR
405-10-COP
405-10-GRY
405-10-RED
405-10-SSB
405-10-WHI
405-20-SSH
405-20-WHI



OPERATION & INSTALLATION MANUAL

Introduction

Thank you for purchasing Alpine Industries' Willow Hand Dryer. This high-velocity hand dryer is extremely compact and dries hands in seconds. It was specifically designed and built for use in industrial settings and commercial offices.

An onboard infrared sensor detects hands and automatically turns the dryer on. The Willow Hand Dryer also incorporates a replaceable, High Efficiency Particulate Air (HEPA) filter.

Features

Touch Free Operation

8 Second Approximate Drying Time

HEPA Filter reduces contaminants from entering the air during use

Quiet operation – ideal for sound-sensitive areas

Equipped with Air Speed Adjustment

Durable, vandal resistant stainless steel cover

Simple mounting for easy installation

Conventional wall plug and hard-wire options

Warning

This manual must be read carefully before attempting to install your Willow Hand Dryer. Not following safety rules or instructions outlined in this manual can cause the hand dryer unit to not operate properly and could result in property damage, serious bodily injury and/or death. Alpine Industries will not be liable for any damages caused by failure to comply with the installation and operating instructions outlined in this manual or damages caused by improper use. Improper use or failure to comply with installation and operating instructions voids the warranty on this hand dryer. Never remove the unit cover unless electricity is turned off. Make sure both air inlet and exit grills are always kept free of obstruction to ensure proper air flow. If you have any questions regarding the installation or operation of this hand dryer, please contact an Alpine representative.

Specifications

120V Version

High Point = 120/ 1400W/11A

Low Point – 120V/ 470W/3.9A

High Point: Motor=600W, Heat Element=800W

Low Point: Motor=230W, Heat Element=240W

220V Version

High Point=220V/ 1400W/6A

Low Point=220V/ 320W/1.4A

High Point: Motor=600W, Heat Element=800W

Low Point: Motor=230W, Heat Element=240W

Specifications (cont.)

Weight: 9.5 lbs

Product Type: High Speed Sensor Activated

Material: 304 Stainless Steel

Dry Time: – 8 sec.

Decibel Rating: 80dB

Blower Rotation Rate: – 25,000rpm

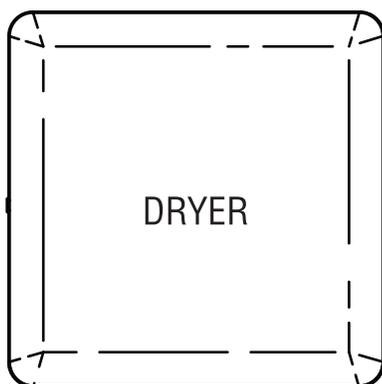
Air Speed: *100-200 mph

Size: 12-5/16" x 11-13/32" x 6-11/16"

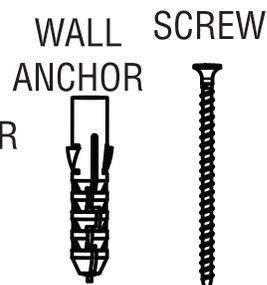
Parts List

- 1 – Dryer
- 4 – Wall Screws
- 4 – Anchor Plugs
- 4 – Bushings
- 1 – Installation Template

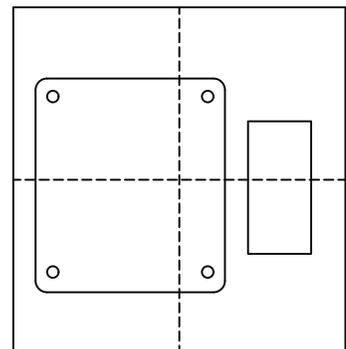
Note: Typical metal screws have been provided with this product. These may be used in conjunction with the anchors for most types of wall/wall studs. Be advised that other screw types may be needed depending on your mounting surface, such as: carbide-tip drill bit needed for masonry walls with tile, or wood screws for wooden walls.



BUSHING WASHER

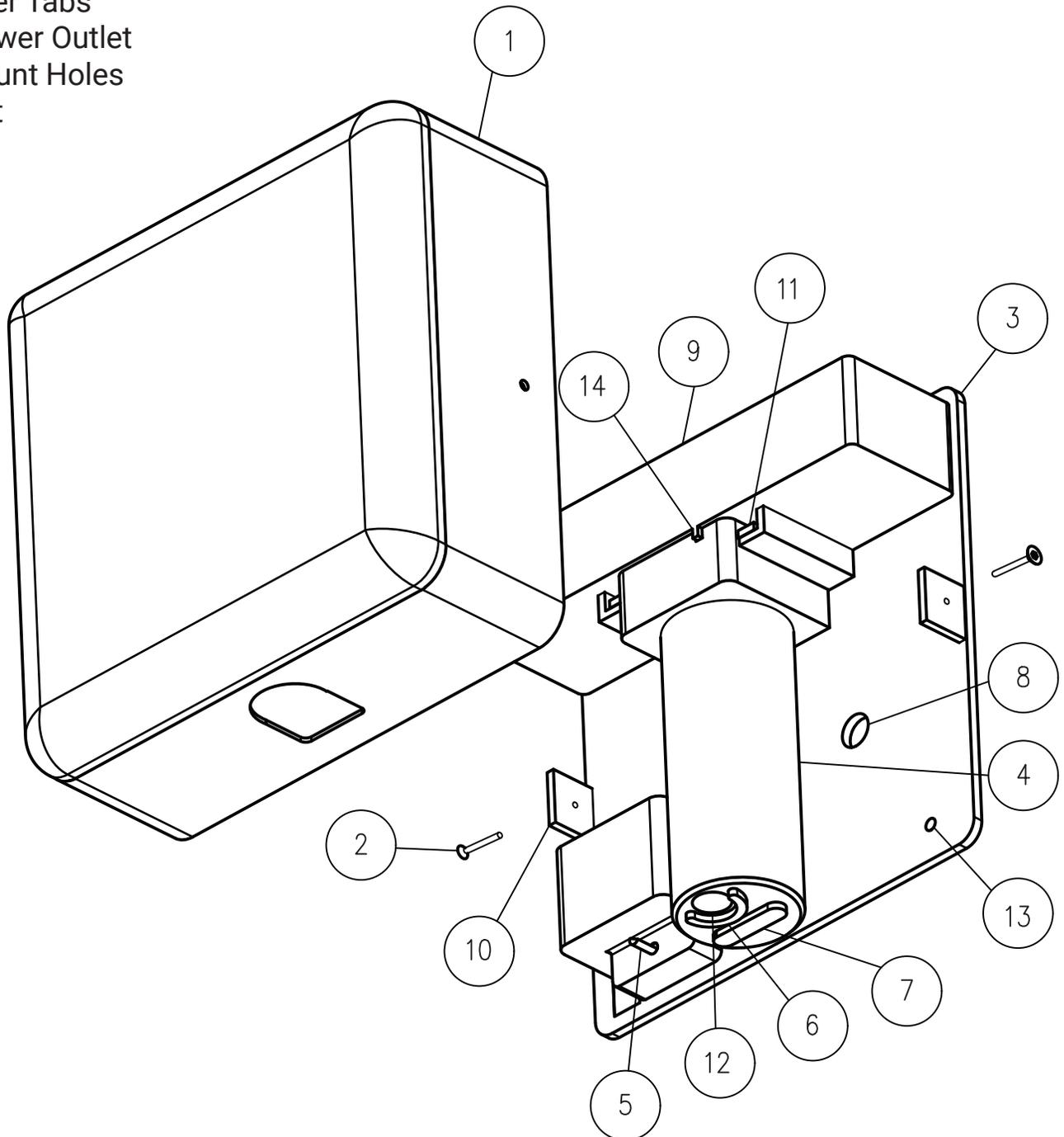


INSTALLATION TEMPLATE



Components List

1. Cover
2. Hex Screws
3. Base Plate
4. Blower Motor
5. Speed Adjuster
6. LED
7. IR Sensor
8. Knock Out Plate
9. HEPA Filter
10. Cover Tabs
11. Filter Tabs
12. Blower Outlet
13. Mount Holes
14. Slot



BEFORE INSTALLATION Caution:

Make sure that no electrical wiring or pipe runs are located in the wall cavity behind where this dryer is to be installed. If installing with the hard-wire option, de-energize all electrical lines before installation begins. Hard-wire installation should only be attempted by a licensed electrician.

1. Remove all packing material (recycling is recommended)
2. Carefully remove the hand dryer from the shipping carton.
3. Inspect carefully for any damage that may have occurred during transit.
4. Check for any loose, missing or damaged parts. If the hand dryer is damaged or missing parts contact the retailer.

TOOLS NEEDED: Phillips Head Screw Driver, Drill Bit, Stud Finder, Pencil

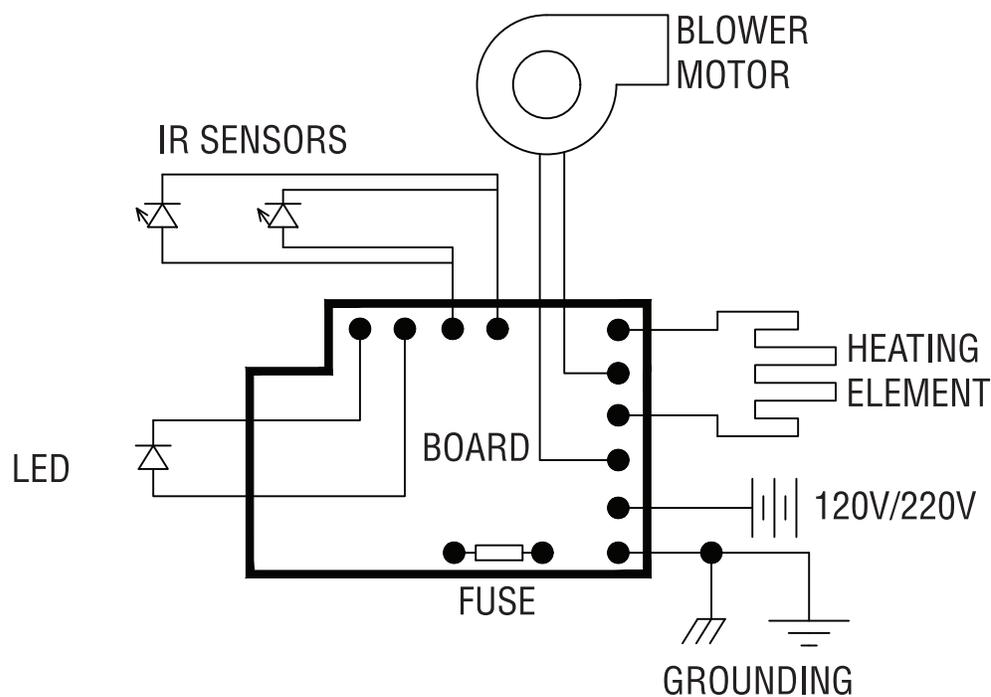
Installing Dryer

1. Select a dedicated circuit breaker for the dryer.
2. Select a wall location height from floor to bottom of dryer according to the recommendations below: MEN – 45" (114 cm) WOMEN—43" (109cm) TEENAGER – 41" (104cm) CHILDREN—35" (89cm) DISABLED – 37" (94cm)
3. Be sure there is no obstruction between floor and dryer. If mounted over counter top place dryer no less than 16 inches above the counter. Do not install dryer over wash basin.
4. Mark wall at appropriate mounting height according to the height guide above.
5. Hold the template (supplied) against bare wall. Make sure that the line of template representing bottom of dryer is horizontal. Mark location of screws.
6. Use hex wrench (supplied) against bare wall. Make sure that the line of template representing bottom of dryer is horizontal. Mark location of screws.
7. If electrical wiring entry is made from rear, remove the pre-formed knock-out from the base plate. Be sure to match the brown (neutral), blue (power), and yellow (ground) wires when connecting directly to a gang box.
8. Insert rubber bushings (supplied) into rear corners of back plate if desired to keep dryer from contacting wall.

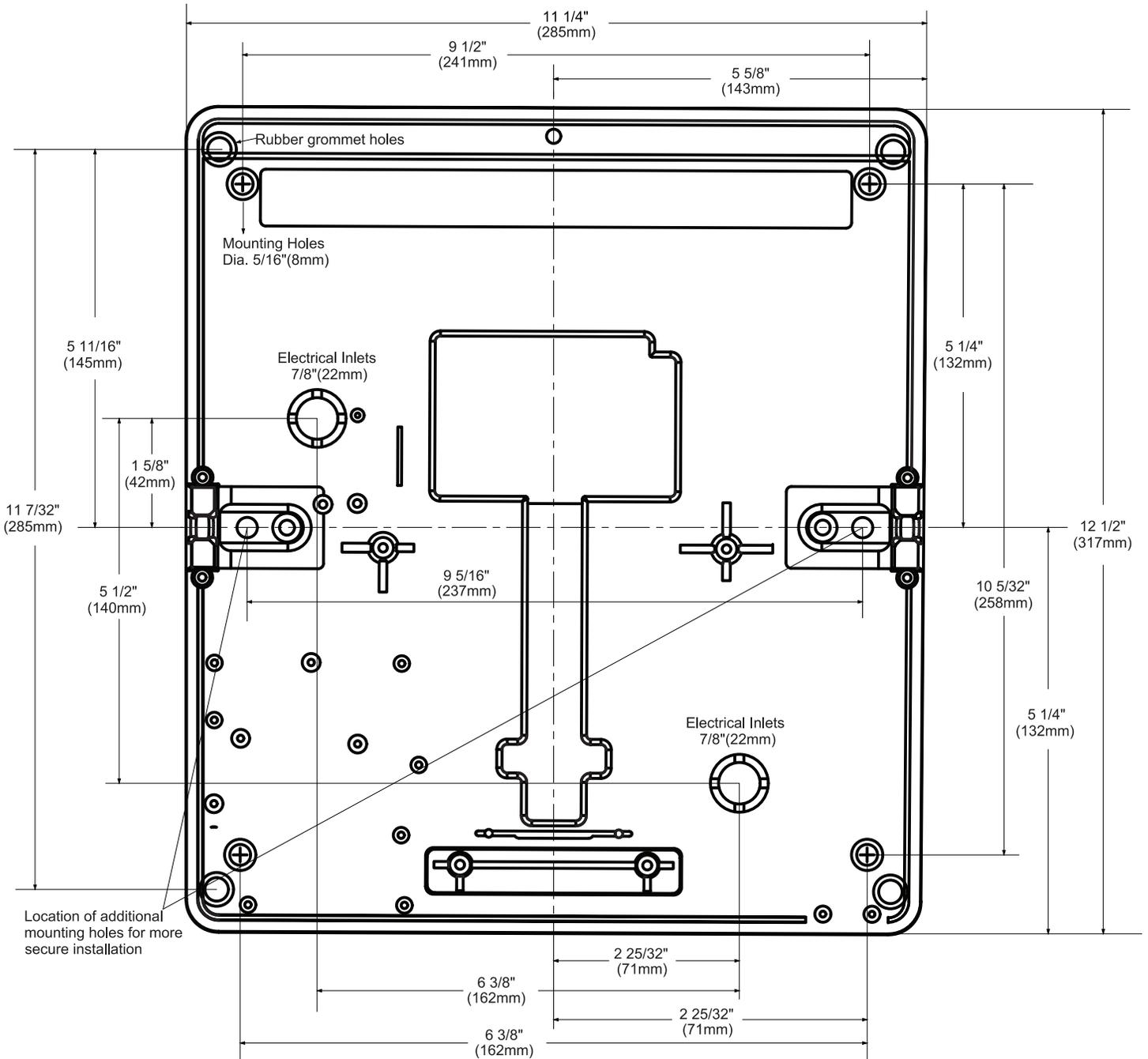
INSTALLATION (cont.)

9. Attach base plate to the wall at the 4 points previously marked using the installation map.
10. Attach cover to the base plate (push bottom in first) and replace screws previously removed from cover using hex wrench.
11. Restore power and test for proper operation.

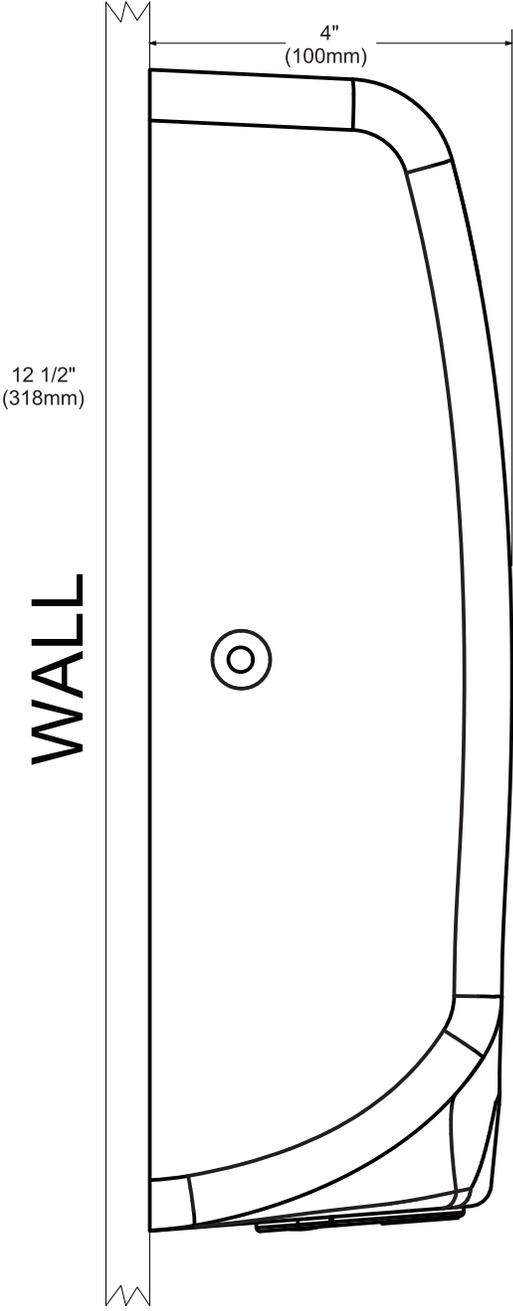
WIRING DIAGRAM



BACK PLATE DIMENSIONS



BACK PLATE DIMENSIONS (cont.)



Maintaining the Dryer

Filter

Examining and changing a HEPA filter regularly keeps hand dryers working efficiently. The service life of your HEPA filter depends on the frequency of use and the environment your hand dryer is in. High traffic/high usage/ environments high in dust or debris will need more frequent inspection and replacement of the HEPA filter. The HEPA filter should be inspected at least 4 times per year in a moderately trafficked, normal washroom environment. In case of high traffic, or environments with excessive lint, dust and debris, we recommend monthly inspection of the HEPA filter. The HEPA filter should be replaced whenever visual examination shows excessive build-up of lint, dust or debris. Operating a hand dryer with an excessively dirty or clogged filter can cause damage to the unit. HEPA filters cannot be cleaned and re-used, it must be replaced. Do not clean filter or allow it to come in contact with water.

Replacing The Filter

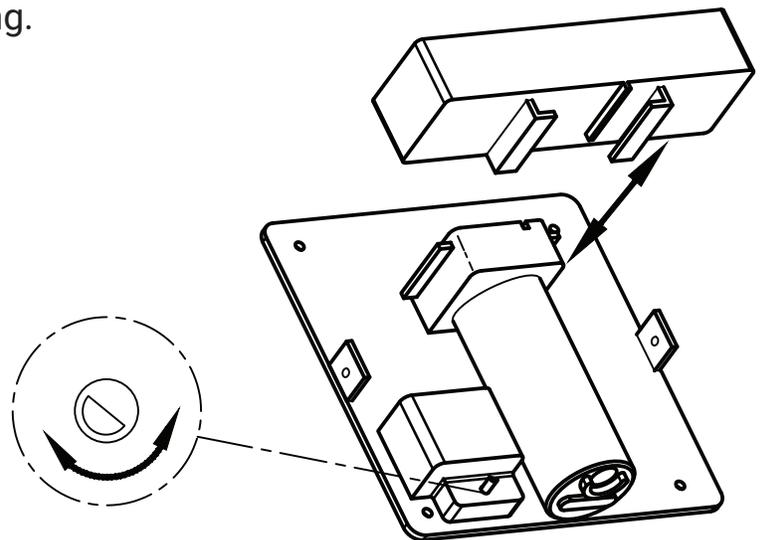
1. Remove the cover of the dryer
2. Slide the filter out of the back plate
3. Insert the new filter by aligning it with the filter tags and slot on the back plate.

Change to Adjusting Air Speed

1. Turn the air speed adjustment knob to the desired flow rate – clockwise for higher speed and counter-clockwise for lower air speed.

Cleaning

Only use a damp rag to wipe down the exterior cover of the dryer unit. Never submerge the dryer unit. Use a dry cloth to wipe down LED and IR sensors. Inspect but do not clean HEPA filter. Always unplug dryer before cleaning.



Trouble Shooting

The procedures in these instructions are intended for use only by a certified electrician. Lay persons should not attempt to trouble shoot the dryer and should contact their local electric service technician.

Dryer does not turn on

1. Check power to the unit and connections. Verify if dryer is receiving the correct voltage at the Terminal Block.
2. Check for loose, disconnected or improper wiring. Ensure sensor wires are all well connected (refer to diagram sheet). If you have followed the 2 steps above and your dryer is still not working, place your hands under the sensor and check for the following.
 - A. If LED blue light turns on, but it is not blowing air, you will need a new Circuit board.
 - B. If LED blue light DOES NOT turn on, the Sensor and Program Board needs to be replaced. If still not working after replacement, the Main Circuit Board will need replacing.
 - C. If after the above steps are followed and this dryer is still not working, you will need a motor replacement.

Dryer does not shut off

1. It may be mounted too close to a counter or object and has gone into lockout.
2. Check for loose, disconnected or improper wiring at Control Assembly (refer to wiring diagram sheet).
3. Replace Sensor and Program board.

Dryer does not always turn on, or turns on by itself

1. It may be mounted too close to a counter or object and has gone into lockout. If relocating appliance is not possible, adjust the range of the Sensor.
2. Check for foreign material on Optical Sensor next to Air Outlet.
3. Check for loose, disconnected or improper wiring at Control Assembly (refer to wiring diagram sheet)
4. Replace Sensor and Program Board.

Dryer Blows Only Cold Air

1. Check for loose connections to Heating Element (refer to wiring diagram sheet)
2. Replace Heating Element

Dryer Has Loss of Air Volume

1. Check motor speed setting on control (if supplied)
2. Check for slow running Motor or burning smell. If so, replace Motor
3. Check for lint buildup at the filter or air inlet holes. If so, replace filter and clean air inlet

Limited Warranty

BEFORE REQUESTING SERVICE, PLEASE REVIEW THE TROUBLESHOOTING GUIDE

TERMS AND CONDITIONS OF ALPINE'S WILLOW HAND DRYER 5 YEAR LIMITED WARRANTY

Your warranty begins at the date of purchase. Please retain your proof of purchase. If you do not have your proof of purchase, the warranty begins 30 days after the date of manufacture according to Alpine's records. The warranty coverage only covers the original owner of the dryer. If hardwired, proof of installation date by licensed electrician is required. Any parts that are returned and replaced are property of Alpine Industries. Any replacement part is warranted for the remainder of the original warranty period.

WHAT IS COVERED

All Willow Hand Dryer parts are warranted for a period of 5 years from the date of purchase, or 5 years from 30 days after the date of manufacture. Wire cord is warranted for 1 year from the date of purchase. Alpine Industries will provide part replacement for original defects, when used in accordance to their owner's manual and installation guide.

WHAT IS NOT COVERED

Freight, filter, or any damage to the product caused by accident, negligence, misuse, vandalism, external sources like weather, flood, property damage, structural damage, electrical outages or power surges are not covered. Use of components or parts not supplied by Alpine, and any installation or assembly not in accordance to this instruction manual are not covered. Any loss of business, revenue, or personal injury as a result or product failure, accident, abuse, or misuse is not covered. Installation outdoors or in a corrosive or wet environment containing hazardous chemicals is not covered. Any dryer product that has a serial number altered, defaced, or removed may not be covered.

WARRANTY LIMITATIONS AND EXCLUSIONS

This limited warranty gives you specific legal rights, and you may have other warranty rights that vary from state-to-state. Any other warranties relating to your Alpine hand dryer, including, but not limited to, warranty of merchantability, are limited to the duration of this 5 year warranty. Alpine Industries will not be liable for any consequential, incidental, or special damages you may incur in connection with your Willow Hand Dryer. Some states do not allow exclusion or limitation of incidental or consequential damages, check your local statutes.

TO REQUEST WARRANTY SERVICE

Contact Alpine Industries offices. Proof of purchase and date of installation by licensed electrician required, otherwise 5 year warranty begins 30 days after date of manufacture according to Alpine's records.



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