



AMERICAN SPECIALTIES, INC.

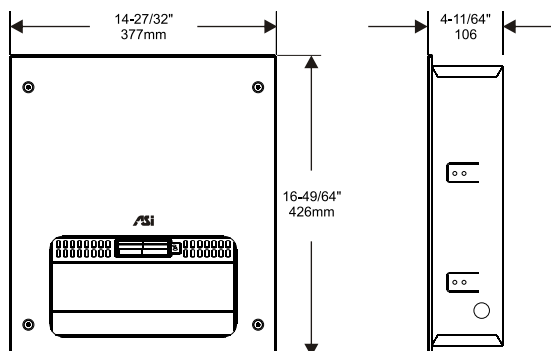
441 Saw Mill River Road, Yonkers, NY 10701 (914) 476-9000

Hand Dryer

Operating Instructions and Parts Manual Recessed hand dryer

PLEASE READ CAREFULLY THROUGH THIS MANUAL BEFORE USING THE PRODUCT. OBSERVING ALL SAFETY INFORMATION, WARNINGS AND CAUTIONS WILL PROTECT YOURSELF AND OTHERS. PLEASE KEEP INSTRUCTIONS FOR FUTURE REFERENCE.

MODEL # 0133



TECHNICAL SPECIFICATIONS

ITEM CATEGORY	PERFORMANCE DATA
Operating Voltage	100-240 VAC, 50/60 Hz, 2.2 kW
Warm Air Volume Output	185 CFM {314.5m ³ /h}
Warm Air Temp Output	149 F {65 C}at ambient T = 77°F {25°C}
Motor Type	¼ HP, 7.5 krpm, Brush Type, Dual Ball Bearings
Motor Thermal Protection	Auto Resetting Thermostat turns unit off at 221°F, {105°C}
Heater Element	2020W @ 120 VAC, Nichrome 7.12 Ω
Heater Thermal Protection	Auto Resetting Thermostat turns unit off at 149°F, {65°C}, Resets at 122°F {50°C}
Drying Time	Less than 25 seconds
Circuit Operation	Infrared Automatic, self adjusting
Sensor Range	2" to 13" [51 mm to 330 mm], adjustable; standard 7" [18 mm ± 2 mm]
Timing Protection	2 minutes auto shut off
Timing Duration	2 seconds delayed turn off after last sensor read
Front Panel Type	304 series stainless steel
Front Panel Finish	Satin on stainless steel
Net Weight	15 lbs [6.8 kg]
Shipping Weight	18 lbs [8.2 kg]
Unit Size	14-27/32" W x 16-49/64" H x 4-11/64" D [377 mm x 426 mm x 106 mm]
Rough Wall Opening	14" W x 16" H x 4" D [356 mm x 406 mm x 102 mm]

Motor				Heater		Total	
Input (Vac)	Vac	Inrush A(W)	Operating A (W)	Vac	Inrush / Operating A(W)	Inrush A(W)	Operating A(W)
115	115	2.16 (248)	1.44 (165)	115	16.2 (1857)	18.4 (2105)	17.6 (2022)
120	120	2.25 (270)	1.5 (180)	120	16.8 (2020)	19 (2290)	18.3 (2200)
208	104	1.95 (203)	1.3 (135)	104	14.6 (1519)	16.6 (1722)	15.9 (1654)
220	110	2.07 (227)	1.38 (151)	110	15.4 (1700)	17.5 (1927)	16.8 (1851)
230	115	2.16 (248)	1.44 (165)	115	16.2 (1857)	18.4 (2105)	17.6 (2022)
240	120	2.25 (270)	1.5 (180)	120	16.8 (2020)	19 (2290)	18.3 (2200)

General safety information:

⚠ WARNING *This product is intended for installation by a qualified service person. Use AWG NO. 12 solid conductor for wiring.*

⚠ WARNING *Disconnect power at the service breaker before installing or servicing.*

⚠ 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:** Do not install dryer over washbasin --

Installation - IMPORTANT - READ COMPLETELY BEFORE STARTING INSTALLATION PROCEDURE

1. Locate position on wall where dryer is to be located. Provide Rough Wall Cutout (RWO) per instructions on TDS. Recommended mounting height for general utility is 46" (1168 mm) above finished floor (AFF) from top of dryer hand chamber with top of RWO at 55-23/32" (1415 mm). Note the top edge of dryer front panel is 3/8" (10 mm) above top edge of RWO. Use security wrench (supplied in installation kit with dryer) to remove and retain four (4) security screws from front panel. Remove front panel from the chassis box and set aside. Install plastic KO bushing (supplied) or alternate cable connector (not supplied) to suit conditions and comply with local electrical codes in the appropriate location to match power supply location in RWO.
2. Make sure the breaker is OFF for this circuit. Insert the chassis box into the RWO. Feed the power supply cable (by others, provided with RWO) through the appropriate location KO plastic bushing (or alternate connector, by others) to match power supply cable location in RWO.
3. Install the chassis box in the RWO with four (4) mounting screws through either one of the holes provided on the adjustable mounting tabs. Use shims to compensate for uneven RWO sides beyond the adjustment capability of the mounting tabs to prevent the box sides from distorting while tightening screws. Make sure the front flanges are flush with finished wall face.
4. Connect the power supply and ground wires to terminal block as indicated by **L1-L2/N-G** or connect supply wires to terminal block where indicated and connect ground (earth) wire to base plate with ground screw cup washer.

Connections:

- A. Connect the live wire (colored Brown, Red or Black) to the terminal block marked "L".
- B. Connect the neutral wire (colored Black, Blue, White or Grey) or connect the second live wire (colored Red or Orange) to the terminal block marked "N".
- C. Connect the ground wire to the terminal block marked "⊕" or to the green screw marked "⊕". Bare grounding (earth) wires should be sleeved with green and yellow or green tubing.

Colors of live and neutral wires depend on voltage of supply service and requirements of Building and Electrical Code having jurisdiction.

5. Fasten the front panel onto the chassis box using the four (4) security screws retained in step 1 above using the security wrench. Retain wrench for any possible service access during dryer lifetime. Turn ON breaker at service panel (by others) and test dryer operation.

Installation Kit Included (find in carton)

1. Chassis Installation Screws (M5x25 Philips pan head self threading) x 4 pcs
2. Nylon Bushing x 1 pc

Service Tool Included (with installation kit)

Security hex wrench (5/32") x 1 pc

Please unpack the unit and check the quantity of the above tool and kit.

Recommended mounting heights

Men / Women	46"	(1168 mm)
Children 4-7 years	33"	(838 mm)
Children 8-10 years	37"	(940 mm)
Children 11-13 years	41"	(1041 mm)
Children 14-16 years	45"	(1143 mm)
Handicaped	40"	(1016 mm)

- from top edge of hand chamber above finished floor (AFF)
SEE ILLUSTRATED INSTALLATION STEPS ON SHEET
DOCUMENT 0804080832

Reference ADAAG	AFF (maximum)	
Reach LIMIT (unrestricted)		
All Approaches	48"	(1219 mm)

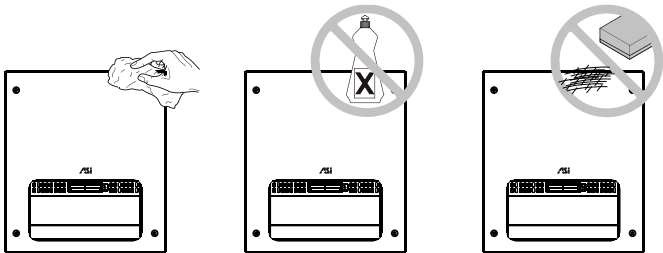
Operation

- 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 optimum performance.

- Disconnect the electrical supply.
- Remove the four cover-mounting screws.
- Remove the cover.
- Clean all dust lint from the interior of the dryer.
- 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.



Warranty

All of our dryers are designed and manufactured to provide years of dependable performance. Component parts are guaranteed to be free of defects in material and workmanship for a period of **Ten** years. This guarantee will be honored provided that the dryer is installed and maintained in accordance with the instructions. Parts damaged during the Installation are the purchaser's responsibility. **ASI's** warranty covers defects exclusively, and only liability for the replacement of defective parts will be accepted. This warranty does not cover wear and tear, or misuse and abuse. Transportation, freight costs and labor are also excluded. Defective parts must be returned prepaid, accompanied by the unit serial number, to the point of purchase. This warranty is granted solely to the original purchaser of the unit and is subject to registration.



Diagnostics and Remedies

Symptom	Corrective Action
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. Taking suitable precautions to avoid shock hazard, reconnect the power and check for voltage at the terminal block. If there is power and the dryer will not run, replace the circuit board module (CBM) and/or the sensor module and/or the power transistor (part of the wire harness, item 14/24).
If the dryer cycles by itself, runs all the time, or is not sensitive enough	Ensure that there is no obstruction on or in front of the infra-red sensor. Clean any dirt off the sensor lens. Try adjusting the sensitivity potentiometer on CBM (blue knob). If the problem persists, replace the CBM and/or the sensor module.
If the element gets hot but the fan motor does not turn	Disconnect the power. Remove the dryer cover and check for obstructions in the fan housing. Damaged fans must be replaced. If there are no obstructions, replace the motor.
If the unit runs but makes a buzz noise	Disconnect the power. Remove the dryer cover and check the fan for rubbing on the housing as it rotates. Replace fan if the condition exists.
If the fan motor runs but the element does not get hot (Dryer blows cold air)	Disconnect the power and remove the dryer cover. Check for loose or damaged wires. Remove the blower housing. Check the element for signs of burning or breakage. Damaged element must be replaced. If the element does not appear damaged, disconnect it at the CBM and check element wire continuity (see tech spec). An open circuit indicates damage to the element wire and to the integral temperature limit control (TLC). Separate the TLC and test for open circuit. If this is the case, replace the element and/or the thermostat.
If the motor makes ticking/winding noise when it runs	Disconnect the power. Remove the dryer cover and check the brushes for worn condition (less than 25/64" (10mm) graphite remains) and replace them, if necessary. Purchase rebuild kit to perform repair.



Repair parts list

Key	Part #	Description	Qty	Key	Part #	Description	Qty
1	A0160	Chassis box	1				
2	A0003	Blower housing - RH	1				
3	A0015	Blower wheel	1				
4	A0014	Blower housing - LH	1				
5	A0013	Thermostat (TLC)	1				
6	A0016	Heater assembly	1				
7	A0009	Circuit Board Module (CBM)	1				
8	A0161	Front Panel	1				
9	A0004	Motor	1				
10	A0026	Motor brush	2				
11	A0005	Rubber grommet - Motor	4				
12	A0007	Nylon washer	4				
13	A0006	Motor bracket	1				
14	A0024	Power transistor (part of item 24)	1				
15	A0162	Base plate	1				
16	A0163	C-clip panel nut	4				
17	A0019	Sensor module, 10-5/8" cable	1				
18	A0012	Cable clamp	1				
19	A0010	Terminal block	1				
20	A0011	Grounding screw with cup washer	1				
21	A0164	Rating label	1				
22	A0020	Security hex wrench	1				
23	A0165	Security hex screw	1				
24	A0027	Wire harness (not shown)	1				
25	A0030	Circuit diagram label	1				
26	-	Mylar shield with L1,N,G marked	1				
27	-	Screw M4x10, philips pan head	6				
28	-	Screw M4x8, philips pan head	3				
29	-	Screw M3x16, philips pan head	2				
30	-	Screw M4x10, philips pan head with external tooth lock washer	1				
31	-	Screw M5x12, philips pan head	4				
32	-	Screw M5x10, philips pan head	4				
33	-	Screw M3x6, philips pan head	2				
34	-	Screw M4x6, philips pan head	4				
35	-	Screw M4x6, headless set (2mm hex key)	1				
36		Hex nut, M6	4				

Diagram

