

SECTION 10 2813

HAND DRYERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide electric hand dryers with attachment hardware, rough-in frames, and electrical connection as required for complete, operational installation.
- B. Related Requirements
 - 1. See drawings for wall/partition types and additional mounting requirements.
 - 2. Coordinate electrical supply and connection of hand dryers.
 - 3. See Section 10 2800 for toilet room accessories.

1.2 REFERENCES

[Revise to comply with state and local codes for specific project]

- A. ADAAG: Americans with Disabilities Act Accessibility Guidelines.
- B. ANSI A117: Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People.
- C. IBC – Chapter 11, *Accessibility*.
- D. Fair Housing Amendments Act of 1988, *Accessibility Guidelines*, Federal Register Volume 56, Number 44.
- E. State Requirements (i.e., California Building Code Chapter 11)

1.2 COORDINATION

- A. Coordinate locations, dimensions, and other pertinent details with installation of backing, blocking, and electrical connections.

1.3 LEED® REQUIREMENTS

- A. EA Credit 1 – Optimize Energy Performance.
- B. MR Credits 1.1 – 1.3 – Sustainable Purchasing: Ongoing Consumables.
- C. MR Credit 4.1 - Recycled Content (post-consumer).
- D. MR Credit 4.2 - Recycled Content (post-industrial).
- E. MR Credits 7.1 - 7.2 – Solid Waste Management: Ongoing Consumables.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 3000.
- B. Product Data: Manufacturer's product data for products specified, indicating selected options and accessories.
- C. Shop Drawings:
 - 1. Plans: Locate each specified unit in project.

2. Elevations: Indicate mounting height of each product.
 3. Details: Indicate anchoring and fastening details, required locations and types of anchors and reinforcement, and materials required for installation of specified products.
- D. Verification Samples: One sample chips of each specified color and finish.
 - E. Manufacturer's printed installation instructions for each specified product.
 - F. Closeout Submittals: Warranty, issued and executed by manufacturer, and countersigned by Contractor.
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. Ship products in manufacturer's standard protective packaging with removable protective coating on exposed surfaces.
 - B. Storage and Protection: Store products in manufacturer's protective packaging in a dry, climate controlled environment until installation.
- 1.6 WARRANTY
- A. Provide manufacturer's standard warranty against defects in materials and fabrication.

PART 2- PRODUCTS

2.1 MANUFACTURERS

- A. ASI-American Specialties, Inc.; 441 Saw Mill River Road, Yonkers, NY 10701-4913; Tel: (914) 476-9000, Fax: (914) 476-0688. www.americanspecialties.com
- B. Furnish products from a single manufacturer.
- C. Standard of Quality: Drawings and specifications are based on proprietary literature from ASI. Other manufacturers shall comply with the minimum levels of material and detailing indicated on the Drawings and as specified.

2.2 TURBO-DRI HIGH SPEED HAND DRYER

- A. Turbo-Dri. Model 0197-1, 120V. [0197-2, 240VAC]
 1. Cover fabricated of heavy-duty, one piece formed stainless steel 1/16" thick, exposed surfaces satin or bright or heavy-duty, one piece formed steel 1/16" thick finished on exposed surfaces with white porcelain enamel.
 2. Motor: 3/8 - 1 HP, brush type, dual ball bearing, 7000-18000 RPM.
 3. Infrared sensor.
 4. GreenSpec[®] listed.
 5. Finish: [Steel housing with Porcelain enamel] or [Stainless steel, {Bright} {Satin} finish].
- B. Turbo-Dri optional semi-recessed mounting kit, Model 0119 – ADAAG Compliant.
 1. Less than 4-inch protrusion from mounting surface.

2.3 ROVAL COLLECTION HAND DRYERS

- A. Roval Steel Cover, Model 0185 [Universal Voltage]
 1. Cover fabricated of heavy-duty, one piece formed stainless steel 1/16" thick, exposed surfaces satin or bright or heavy-duty, one piece formed steel 1/16"

- thick finished on exposed surfaces with white porcelain enamel.
2. Motor 1/4 HP, brush type, dual ball bearing, 7500 RPM.
3. Infrared sensor.
4. Finish: [Steel housing with Porcelain enamel] or [Stainless steel, {Bright} {Satin} finish].

- B. Roval Cast Iron Cover, Model 0195 [Universal Voltage]
1. Cover fabricated of heavy-duty, one piece formed steel 1/16" thick finished on exposed surfaces with porcelain enamel.
 2. Motor 1/4 HP, brush type, dual ball bearing, 7500 RPM.
 3. Infrared sensor.
 4. Finish: Steel housing with Porcelain enamel.
 - a. Color as selected.
- C. Roval Recessed Steel Cover, Model 20199 [120-240 VAC]
1. Cover fabricated of heavy-duty, one piece formed 18-gage stainless steel exposed surfaces.
 2. Motor 0.69 HP, brush type, dual ball bearing, 29000 RPM.
 3. Infrared sensor.
 4. Finish: Stainless steel, Satin finish.

2.4 SIMPLICITY COLLECTION HAND DRYERS

- A. Model 0133 [Universal Voltage]
1. Cover fabricated of heavy-duty, 14-gage seamless stainless steel cover, exposed surfaces satin finish.
 2. Motor: 1/4 HP, brush type, dual ball bearing, 7500 RPM.
 3. Infrared sensor.
 4. Finish: Stainless steel, Satin finish.
- B. Model 64673, Three-in-one unit recessed combination paper towel dispenser, automatic hand dryer and waste receptacle.
1. Three-in-one unit combines towel dispenser, automatic hand dryer and a four gallon stainless steel waste receptacle in one unit.

2.5 PROFILE COLLECTION HAND DRYERS

- A. Profile Model 0165: [Universal Voltage]
1. Compact design. Cast Aluminum, single-piece construction, with epoxy enamel finish.
 2. Brush type electric motor rated 1/4 horsepower.
 3. Infrared sensor.
 4. Surface mounted with 4-inch projection – ADA Compliant.
 5. Finish: [Grey] or [White].
- B. Model 0184: Surface Mounted Sensor Hand Dryer [277 VAC]
1. Steel, single-piece 16-gage drawn steel construction.
 2. Brush type electric motor rated 1/4 horsepower, 7500 RPM.
 3. Infrared sensor.
 4. ADAAG Compliant.
 5. Finish: Porcelain Enamel

2.4 PORCELAIR HAND DRYERS

- A. Porcelain Model 0141 [110-120VAC] [Model 0144, 208-240VAC]
1. Cast iron housing, single-piece construction, 1/4-inch thick, with acid-resistant porcelain enamel finish.

2. Brushless electric motor rated 1/8 horsepower.
3. Infrared sensor
4. Flip nozzle for face drying
5. Color as selected.

PART 3- EXECUTION

3.3 EXAMINATION

- A. Verify openings are sized and located in accordance with shop drawings.
- B. Verify reinforcement and anchoring devices are correct type and are located in accordance with shop drawings.
- C. Examine conditions under which construction activities are to be performed, then submit written notification if such conditions are unacceptable.

3.4 INSTALLATION

- A. Install hand dryers in the locations indicated with anchor devices of the types specified. Fasten securely, true, plumb and level.
 1. Install recessed hand dryers into wall openings with wood screws through cabinet side into wood blocking or studs, or sheet metal screws into metal backing or studs.
 2. Install surface mounted accessories to hollow back up using toggle bolts and to metal or wood backing using proper type screws.
 3. Provide fasteners, anchors, and the like as necessary to install toilet accessories.
 4. Make required electrical connections.
- B. Locate hand dryers at heights specified by ADAAG, State, or local requirements.

3.5 CLEANING

- A. Remove manufacturer's protective coverings and clean surfaces in accordance with manufacturer's recommendations.

3.6 PROTECTION

- A. Protect products from damage caused by subsequent construction activities.
- B. Field repair of damaged product finishes is prohibited; replace products having damaged finishes caused by subsequent construction activities.

END OF SECTION