SECTION 10811

ELECTRIC HAND DRYERS

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American Dryer® offers models to suit every project. The EXTREMEAIR® is the high-speed, energy efficient hand dryer. Features include Adjustable Sound and Speed and Universal Voltage. Specify the GXT SERIES for the fastest performance or the EXT ECO SERIES for more energy efficiency. The ADVANTAGE™ SERIES hand and hair dryers are the perfect replacement for the traditional dryer with more power and features in a heavy duty, compact and vandal-resistant package. The GX SERIES automatic hand dryers provide a quiet and compact design to fit any budget. Contact an American Dryer representative for further assistance with appropriate product selections.

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Electric hand dryers. Basis-of-design model:

1. High Efficiency Heated Air Hand Dryer

1.2 RELATED SECTIONS

A. Section 06100 - Rough Carpentry: Blocking in stud partitions for mounting hand dryers.

B. Section 16100 - Wiring Methods: Electrical supply, conduit, wiring, boxes, and wiring devices for hand dryers.

1.3 REFERENCES

A. ICC/ANSI A117.1 - American National Standard for Accessible and Useable Buildings and Facilities; 1998.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.

2. Operation instructions and performance.

3. Storage and handling requirements and recommendations.

4. Installation methods.

C. Shop drawings showing dimensions, method of attachment, and required supports.

1.5 QUALITY ASSURANCE

A. Product Requirements: Hand dryers shall be certified as per applicable safety standards of Underwriters Laboratory (UL), Inc. and Canadian Standards Association and shall bear UL or ETL markings.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: American Dryer, LLC; 340 County Line Road, Bensenville IL 60106. ASD. Toll Free Tel: 800-323-0701. Tel: 708-449-6950. Email: sales@americandryer.com. Web:

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 ELECTRIC HAND DRYERS – BASIS OF DESIGN MODEL

A. Automatic, High Speed, Warm-Air Dryer: EXTREMEAIR GXT SERIES : As manufactured by American Dryer, LLC.

1. Mounting: Surface-mounted

2. Mounting: Surface-mounted (complies with American Disabilities Act – ADA)

a. Provide 17 GA type 304 stainless steel ADA wall guard with brushed finish, model ADA-WG as manufactured by American Dryer.

3. Mounting: Recessed (complies with American Disabilities Act – ADA)

a. Provide 17 GA type 304 stainless steel ADA recess kit with brushed finish, model ADA-RK as manufactured by American Dryer.

4. Adjustable Speed: 10+ seconds

5. Adjustable Sound Level: 83 - 69 dBA

6. Electrical Rating: 1500 watts, universal voltage (110-120/ 208 / 220 – 240VAC 60 Hz)

7. Motor: Universal type, through-flow discharge vacuum type with automatic resetting thermostat; 5/8 HP, 24,000 RPM

8. Air Flow: 68 CFM at 216 mph (19,000 LFM) – 36 CFM at 114 mph (10,000 LFM)

9. Electronic Controls: Automatic infrared optical sensor. Operates while hands are under blower. Shut-off within 3 seconds when hands removed, or in 35 seconds if hands not removed. Variable speed control to customize air performance / dry time, energy efficiency, sound level and user comfort as desired.

10. Heater: Nichrome wire element mounted inside plenum housing with automatic resetting thermostat to open when air flow is restricted and close when air flow is resumed. Heated air temperature is 135°F at an ambient of 72°F.

11. Warranty: 5 YR Limited

12. Cover Material: Flame retardant ABS polymer, white finish.

13. Cover Material: One piece, vandal resistant, type 304 stainless steel, brushed finish

14. Cover Material: One piece, vandal resistant, steel, white epoxy finish

15. Cover Material: One piece, vandal resistant, steel, black epoxy finish

16. Mount dryers at heights indicated on Drawings.

17. Mount at the following heights above floor surface:

    a. Men's Toilets: 44 inches (112 cm).

    b. Women's Toilets: 42 inches (107 cm).

    c. Teenagers' Toilets: 42 inches (107 cm).

    d. Young Children's Toilets: 32 inches (81 cm).

    e. Toilets for Persons with Physical Disabilities: 36 inches (91 cm).

PART 3 EXECUTION

3.1 COORDINATION

A. Coordinate requirements for blocking to ensure adequate means for support and installation of hand dryers.

B. Coordinate requirements for power supply, conduit, disconnect switches, and wiring.

C. Coordinate dryer installation with application of wall finishes.

3.2 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 INSTALLATION

A. Comply with manufacturer's written installation instructions and approved shop drawings.

B. Mount dryers at heights indicated on Drawings and approved shop drawings.

A. Install ADA wall guards directly below dryers with bottom edge of ADA wall guard less than 27 inches above floor level in compliance with ICC/ANSI A117.1.

B. Install dryers with recess mounting kits such that maximum projection from wall surface is 4 inches (102 mm) in compliance with ICC/ANSI A117.1.

3.4 CLEANING, TESTING, AND DEMONSTRATING

A. Remove protective packaging. Clean surfaces with mild soap solution. Do not use abrasives.

B. Inspect installed dryers to verify mounting is rigid and electrical connections are proper. Test each dryer to verify operation and performance. Correct deficiencies.

C. Protect dryers from remaining construction activities. Immediately remove and replace dryers that are damaged.

D. Demonstrate operation and maintenance to Owner's representative.

3.5 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION