SECTION 10811

ELECTRIC HAND DRYERS

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PART 1 GENERAL

1.1 SECTION INCLUDES

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

1. High Efficiency Heated Air Dryer – Diffused Nozzle

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.

B. Product Requirements: Hand dryers shall be certified as per applicable safety standards for CE certification for non-US export applications.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: World Dryer Corporation.; 340 County Line Road, Bensenville IL 60106. ASD. Toll Free Tel: 800-323-0701. Tel: 708-449-6950. Email: info@worlddryer.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. High Efficiency Heated Air Dryer – Diffused Nozzle: SMARTdri : As manufactured by World Dryer Corp.

1. Mounting: Surface-mounted

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

a. Provide 16 GA 18-8 type 304 stainless steel recessing kits with brushed finish for SMARTdri electric hand dryer, model KKR-973 as manufactured by World Dryer.

3. Electrical Rating: (Model K-xxxA) 1200 watts, 10 Amps, 110 – 120VAC, 50/60 Hz

4. Electrical Rating: (Model K4-xxxA) 1250 watts, 5.2 Amps, 208-240VAC, 50/60 Hz

5. Electrical Rating: (Model K48-xxxA; for export only) 1200 watts, 5 Amps, 220-240VAC, 50 Hz

6. Nozzle Type: Multi-jet ports for diffused, comfort dry

7. Air Flow: 100 CFM at 265 mph (23,320 LFM)

8. Intake Air Filter: Coarse air filter

9. Motor: Universal type, through-flow discharge vacuum type with automatic resetting thermostat; 1.07 HP, 23,400 RPM

10. Electronic Controls: Automatic infrared optical sensor. Operates while hands are under blower. Shut-off within 3 seconds when hands removed, or in 30 seconds if hands not removed. Three (3) position motor control and ON/OFF heater control to customize air performance / dry time, energy efficiency, sound level and user comfort as desired.

11. Heater: Nichrome wire element mounted inside plenum housing with dual level safety protection - automatic resetting thermostat to open when air flow is restricted and close when air flow is resumed with back-up one use thermal cutoff. Heated air temperature is 111°F at an ambient of 70°F.

12. Warranty: 5 YR Limited (not including replaceable filters)

13. Sound Level: 85 dBA at operator with hands; 73 dBA at 2 meters, no hands

14. Anti-microbial features inhibit the growth of bacteria, mold and fungus extending the dryer's service life.

15. Ingress Protection Rating: IP24

16. Cover Material: One piece, heavy duty, die-cast aluminum.

17. Cover Material: One piece, vandal resistant, stainless steel.

    a. (-974A), aluminum, white enamel finish housing.

    b. (-162A), aluminum, black enamel finish housing.

    c. (-970A), aluminum, polished chrome plated housing.

    d. (-971A), aluminum, brushed chrome plated housing.

    e. (-972A), stainless steel, polished housing.

    f. (-973A), stainless steel, brushed housing.

18. Mount dryers at heights indicated on Drawings.

19. Mount at the following heights above floor surface:

    a. Men's Toilets: 46 inches (117 cm).

    b. Women's Toilets: 44 inches (112 cm).

    c. Teenagers' Toilets: 44 inches (112 cm).

    d. Young Children's Toilets: 36 inches (91 cm).

    e. Toilets for Persons with Physical Disabilities: 37 inches (94 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.

C. 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