

SECTION 10 28 13.14
ELECTRIC HAND DRYERS

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

- A. The General Conditions, Supplementary Conditions, and Division 01 – General Requirements apply.

1.2 SECTION INCLUDES

- A. Electric hand dryers.

1.3 RELATED SECTIONS

Specifier Note: In this article, specify work specified in other sections that is related to work of this section.

- A. Division 26 - Electrical: Electrical systems and components.

Specifier Note: The following paragraph is a sample that may be used in this article. Add to or delete from the following as appropriate for the specific project.

- B. Section [xxxx] – [Section Title]: [Include brief description of work specified in another section that is related to the work of this section.]

1.4 SUBMITTALS

Specifier Note: In this article, specify various types of data to be furnished by the contractor before, during, or after construction. Topics included in this article are: product data, shop drawings, samples, design data, test reports, certificates, manufacturers' instructions, manufacturers' field reports, qualification statements, and closeout submittals.

- A. Submit under provisions of Section [01 33 00] [_____].
- B. Product Data: Provide construction details, dimensions, anchoring and mounting requirements, material and finish descriptions, electrical requirements, and manufacturer's warranty.
- C. Operation and Maintenance Data: Provide for electric hand dryers to include in maintenance manuals.
- D. Warranty: Provide sample of manufacturer's standard warranty for parts and labor.

1.5 QUALITY ASSURANCE

Specifier Note: In this article, describe qualifications, regulatory requirements, certifications, field samples, mock-ups, and pre-installation meetings.

- A. Product Certification: ETL listed in accordance with UL 507. National Sanitation Foundation (NSF) Protocol P335 "Hygienic Commercial Hand Dryers" compliant.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and handle electric hand dryers in manufacturer's protective packaging.
- B. Store electric hand dryers off of ground, under cover, and in a dry location. Handle according to manufacturer's written recommendations to prevent damage, deterioration, or soiling.

1.7 COORDINATION

- A. Coordinate locations of electric hand dryers with other work to prevent interference with clearances required for access, and for proper installation, adjustment, operation, cleaning, and servicing of electric hand dryers.

1.8 WARRANTY

- A. Manufacturer's Standard Warranty: Manufacturer's standard form in which manufacturer agrees to repair, restore, or replace defective electric hand dryer components and labor within specified warranty period.
1. Warranty Period: One (1) year limited for labor and five (5) years for parts.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: The design for electric hand dryers is based on Dyson Airblade™ Electric Hand Dryers manufactured by Dyson B2B, Inc., 600 W. Chicago, Suite 275, Chicago, IL 60610; toll-free 888-DYSON-AB, Web Site: www.dysonairblade.com.
- B. Substitutions will be considered under provisions of Section 01 60 00.

2.2 ELECTRIC HAND DRYERS

Specifier Note: In this article, select either the first or second paragraph and delete the other one. The first paragraph includes a hand dryer with an aluminum casing while the second paragraph includes a hand dryer with a polycarbonate-ABS casing.

- A. Electric Hand Dryers: Dyson Airblade™ Electric Hand Dryer Model AB02.
 - 1. Mounting: Surface mounted on pressed anti-rust steel backplate.
 - 2. Construction: Die-cast aluminum casing with anti-microbial scuff resistant lacquer coating on exterior surfaces. Anti-microbially integrated external plastics and seals. Tamper-proof T30 type exterior screws. Water ingress protection to IPX5.
 - 3. Color Finish: Metallic silver, gloss lacquer.
 - 4. Filtration: 99.97 percent particulate efficiency HEPA filter with anti-microbial coating.
 - 5. Operation: Touch-free infra-red activation.
 - a. Hand dry time: 12 seconds
 - b. Airspeed at nozzle: 400 mph
 - c. Operating airflow: 68 cfm
 - d. Rated Operating Noise Power: 84 db(A)
 - 6. Motor: Dyson Digital Motor (DDM), switched reluctance brushless type; 81,000 rpm motor speed; one (1) watt standby power consumption.
 - 7. Electrical Requirements: 110-120 V AC, 12 A, 1400 W.
- B. Electric Hand Dryers: Dyson Airblade™ Electric Hand Dryer Model AB04.
 - 1. Mounting: Surface mounted on galvanized steel backplate.
 - 2. Construction: Polycarbonate-ABS casing with homogenous anti-microbial additive. Anti-microbially integrated external plastics, seals, and air ducts. Tamper-proof T30 type exterior screws. Water ingress protection to IPX5.
 - 3. Color Finish: Metallic steel finish PC-ABS.
 - 4. Filtration: 99.97 percent particulate efficiency HEPA filter with anti-microbial coating.
 - 5. Operation: Touch-free infra-red activation.
 - a. Hand dry time: 12 seconds
 - b. Airspeed at nozzle: 400 mph
 - c. Operating airflow: 68 cfm
 - d. Rated Operating Noise Power: 85 db(A)
 - 6. Motor: Dyson Digital Motor (DDM), switched reluctance brushless type; 81,000 rpm motor speed; one (1) watt standby power consumption.
 - 7. Electrical Requirements: 110-120 V AC, 12 A, 1400 W.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify availability and characteristics of electrical power. Drill minimum two (2) inch diameter holes for electrical service entrance through backplate.
- B. Do not begin installation until substrates are complete and ready for installation of electric hand dryers.

3.2 INSTALLATION

- A. Locate and install mounting bracket in accordance with manufacturer's written instructions. Use minimum 0.25-inch anchors to mount bracket. Mount electric hand dryer at height above finished floor recommended by manufacturer.
- B. Install electric hand dryer in accordance with manufacturer's written instructions, using fasteners appropriate to substrate indicated and recommended by manufacturer. Install electric hand dryers level, plumb, and firmly anchored in locations and at heights indicated.

3.3 CLEANING AND PROTECTION

- A. Adjust electric hand dryers for smooth operation. Replace damaged or defective components.
- B. Remove protective coverings from finished surfaces.
- C. Clean exposed surfaces using materials and methods recommended by manufacturer.

END OF SECTION

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