

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 [xxxxx] – [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:
 - 1. ETL listed in accordance with UL 507.
 - 2. Compliant with National Sanitation Foundation International (NSF) Protocol P335 "Hygienic Commercial Hand Dryers".
- B. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70, by a qualified testing agency, and marked for intended location and application.

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: Five (5) years limited for labor and five (5) years for parts.

PART 2 - PRODUCTS**2.1 MANUFACTURERS**

- A. Basis-of-Design Product: Subject to compliance with requirements, provide the electric Dyson Airblade 9kJ hand dryers manufactured by Dyson Canada Ltd., 312 Adelaide St W 7th Floor, Toronto, ON M5V 1R2; 1-866-236-3884; www.dysoncanada.ca/en/hand-dryers.html

2.2 ELECTRIC HAND DRYERS

- A. Electric Hand Dryers: The electric Dyson Airblade 9kJ hand dryer (Model HU03); Item No. [282997-01 (Brushed (304L) LV)] or [314696-01 (Brushed (304L) HV)].
 - 1. Mounting: Surface mounted on stainless steel backplate. Depth measures 4 inches (100mm) protruding from wall, no recession required.
 - 2. Construction: Stainless steel – Brushed (304L) fascia. Anti-tamper 1¾” exterior Pin-Hex screws. Water ingress protection to IP24.
 - 3. Color Finish: [Brushed (304L)].
 - 4. Light Reflective Value: min 38.0 GU, mean 52.4 GU, max 64.9 GU (Gloss Units) [Stainless Steel – Brushed (304L)]
 - 5. Filtration: 99.97 percent at 0.3 microns particulate efficiency HEPA filter (Glass fiber and fleece prelayer).
 - 6. Operation: Touch-free ‘time of flight’ sensor activation.
 - a. Curved Blade™ design: Two 0.45mm curved apertures positioned at an angle of 70° create sheets of air that follow the contours of your hands, drying each hand separately.
 - b. Hand dry time: 10 seconds (MAX) mode; 12 seconds (ECO) mode.
 - c. Airspeed at aperture: 624 km/h (High Voltage MAX mode); 569 km/h (High Voltage ECO mode); 624 km/h (Low Voltage MAX mode); 543 km/h (Low Voltage ECO mode).
 - d. Operation Lock-out Period: 30 seconds
 - e. Operating Airflow: Up to 6.1 gallons/second (Max) mode.
 - f. Rated Operating Noise Power: 79 dB(A) (MAX) mode; 77 dB(A) (ECO) mode
 - 7. Motor: Dyson Digital Motor (DDM), V4 switched reluctance brushless DC type; 75,000 rpm motor speed; less than 0.5 watt standby power consumption.
 - 8. Electrical Requirements: [85-115V AC, 50 Hz, 650 W (ECO) mode]; (85-130V AC, 60Hz, 650 W (ECO) Mode); [200-240V AC, 50 & 60Hz, 900 W (MAX) mode].
 - 9. Controls:
 - 10. ADA Accessories: None. ADA compliant without recess kit.

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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