SECTION 10 28 00
ELECTRIC HAND DRYERS

1 GENERAL

1.1 SECTION INCLUDES

1.1.1 Electric hand dryers of the following types:
1.1.1.1 Heavy-duty hand dryers. (SANIFLOW AUTOMATIC Series E85A & E88A)

1.2 RELATED SECTIONS

1.2.1 Section 06 10 00 - Rough Carpentry.

1.2.2 Section 26 05 00 - Common Work Results for Electrical.

1.3 REFERENCES

1.3.1 Underwriter's Laboratory (UL): Labeled products.

1.4 SUBMITTALS

1.4.1 Submit under provisions of Section 01 30 00 - Administrative Requirements.

1.4.2 Product Data: Manufacturer's data sheets on each product to be used, including:
1.4.2.1 Preparation instructions and recommendations.
1.4.2.2 Storage and handling requirements and recommendations.
1.4.2.3 Installation methods.
1.4.2.4 Manufacturer's installation and maintenance instructions.

1.4.3 Shop Drawings: Submit shop drawings indicating details of mounting and relationship to adjacent construction.

1.4.4 Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

1.5.1 Product Requirements: Hand dryers shall be certified by Underwriters Laboratory (UL), Inc. and shall bear UL labels.

1.5.2 Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1.5.2.1 Finish areas designated by Architect.
1.5.2.2 Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
1.5.2.3 Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

1.6.1 Store products in manufacturer's unopened packaging until ready for installation.

1.6.2 Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

1.7.1 Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 WARRANTY

1.8.1 Manufacturer's Warranty: 5 year limited warranty for electric hand dryers to cover defects in material and workmanship.

2 PRODUCTS

2.1 MANUFACTURERS

2.1.1 Acceptable Manufacturer: SANIFLOW Hand Dryer Corporation, which is located at: 3325 N. W. 70th Ave.; Miami, FL 33122; Toll Free Tel: 877-222-9125; Tel: 305-424-2433; Fax: 305-424-2435; Email:request info (info@saniflowcorp.com); Web:www.saniflowcorp.com

2.1.2 Substitutions: Not permitted.

2.1.3 Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 HEAVY-DUTY HAND DRYERS (SANIFLOW AUTOMATIC Series E88A and E85A)

2.2.1 Type: Warm air, wall mounted, durable, compact, electric hand dryer with anti-vandalism features and low energy consumption, as manufactured by Mediclinics, S.A. and distributed by its subsidiary Saniflow Corporation:

- 2.2.1.1 Saniflow Hand Dryer Model No. E88A.
- 2.2.1.2 Saniflow Hand Dryer Model No. E88AC.
- 2.2.1.3 Saniflow Hand Dryer Model No. E88ACS.
- 2.2.1.4 Saniflow Hand Dryer Model No. E88AO.
- 2.2.1.5 Saniflow Hand Dryer Model No. E85A.

2.2.2 Performance Requirements:

- 2.2.2.1 Operation: Infrared sensor turns dryer on when hands are held under air outlet. Dryer automatically turns off 2 seconds after hands are removed from air flow.
- 2.2.2.2 Effective Airflow: 149 cubic feet per minute (4.22 cubic meters per minute).
- 2.2.2.3 Air Velocity: 5,468 linear feet per minute (1,666,66 linear meters per minute).
- 2.2.2.4 Air Temperature at 4 inches (102 mm) below outlet at 70 degrees F (21 degrees C) ambient temperature: 127 degrees F (53 degrees C).
- 2.2.2.5 Average Drying Time: 29 seconds.
- 2.2.2.6 Sound Pressure Level (SPL): 68 decibels maximum.

2.2.3 Construction:

- 2.2.3.1 Cover: One-piece cover fabricated from 1/16 inch (1.5 mm) thick sheet steel.
  - 2.2.3.1.1 Finish: White porcelain enamel finish.
  - 2.2.3.1.2 Finish: Bright chrome plated finish.
  - 2.2.3.1.3 Finish: Satin chrome plated finish.
  - 2.2.3.1.4 Finish: 24K gold plated finish.
- 2.2.3.2 Cover: One-piece cover fabricated from 1/4 inch (6 mm) thick cast iron.
  - 2.2.3.2.1 Finish: White porcelain enamel finish.

2.2.3.3 Cover to be field attached to base with vandal proof screws and locked with special key wrench.
2.2.3.4 Provide cover with rotating die cast air nozzle to focus air stream.
2.2.3.5 Base: Die cast aluminum base with factory attached dryer components. Provide with fasteners for attachment to wall.
2.2.3.6 Nominal Size: 11 inches by 9-3/4 inches by 8-3/8 inches (278 mm by 248 mm by 212 mm).
2.2.3.7 Nominal size: 11-1/8 inches wide by 10 inches high by 8-1/2 inches deep (282 mm wide by 255 mm high by 215 mm deep).
2.2.3.8 Weight: 13 pounds (6.0 kg).
2.2.3.9 Weight: 25 pounds (11.5 kg).
2.2.3.10 Motor: 1/3 HP, 5,800 RPM, universal brush type.
2.2.3.11 Fan: Double inlet, centrifugal, aluminum fan.
2.2.3.12 Heating Element: 1,600 watt with Ni-Crom wire.
2.2.3.13 Power Requirements: 110/120 volts, 50/60 Hz, 16 amps.

3 EXECUTION

3.1 COORDINATION

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

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

3.1.3 Coordinate dryer installation with application of wall finishes.

3.2 EXAMINATION

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

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

3.3 INSTALLATION

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

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

3.3.3 Install bases securely to supporting substrate so that dryers are level and aligned with each other. Anchor with fasteners of type and size recommended by manufacturer for type of wall substrate.

3.3.4 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. Anchor box in rough wall opening with fasteners of type and size recommended by manufacturer. When cover is installed over dryer, ensure that joint between box and wall finish is concealed.

3.4 CLEANING, TESTING, AND DEMONSTRATING

3.4.1 Remove protective wrappings. Clean surfaces with mild soap solution. Do not use abrasives.

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

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

3.4.4 Demonstrate operation and maintenance to Owner's representative.

3.5 PROTECTION

3.5.1 Protect installed products until completion of project.

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

END OF SECTION