

SECTION 10815

ELECTRIC HAND DRYERS

******* SANIFLOW SERIES *******

******* Saniflow Corporation is the American-sister-company of Mediclinics, S.A. and manufacturers several styles of electric, warm-air hand dryers.**

This guide can be used to prepare a specification for incorporating the Saniflow Series Hand Dryer into a competitively bid construction project. These dryers are long-lasting compact units with anti-vandalism features and low energy consumption. They operate free of vibration and noise and require minimal maintenance.

This specification section is organized by placing information in three standard parts:

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|----------------------------------|---|
| <u>PART 1 - GENERAL</u> | Describes administrative and procedural requirements. |
| <u>PART 2 - PRODUCTS</u> | Describes electric hand dryers to be incorporated into the construction project. |
| <u>PART 3 - EXECUTION</u> | Describes how the dryers will be installed at the construction site. |

Throughout this product guide specification, references are made to other specification sections that might be contained in the project manual. These references are presented as examples and coordination reminders. For each project, these references will need to be revised to reflect actual sections being used.

Within the specification text, Imperial dimensions are presented first in brackets followed by System International Metric (SI) equivalents also in brackets. Depending on project requirements, either the Imperial or the SI metric equivalents will need to be deleted.

The specifier will need to edit this product specification for a specific project to reflect the options being used. The guide section has been written so that most editing can be accomplished by deleting unnecessary requirements and options. Options are indicated by []. Notes to assist the specifier in selecting options and editing the specification guide are printed in bold and indicated with *******. For final editing, all brackets and notes will need to be deleted from the guide.**

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes: Warm air, compact, electric hand dryers.

******* List other specification sections dealing with work directly related to this section such as the following. *******

B. Related sections:

1. Section 06100 - Rough Carpentry: Blocking in stud partitions for mounting hand dryers.
2. Section 16100 - Wiring Methods: Electrical supply, conduit, wiring, boxes, and wiring devices for hand dryers.

1.2 REFERENCES

****** List by number and full title reference standards referred to in remainder of specification section. ******

- A. ADA - Americans with Disabilities Act.
- B. ICC/ANSI A117.1 - International Code Council/American National Standards Institute Standard on Accessible and Useable Buildings and Facilities.

1.3 SUBMITTALS

A. Submit in accordance with Section 01330 - Submittal Procedures:

1. Product data.
2. Shop drawings showing dimensions, fabrication and installation details, and electrical wiring diagrams for connecting dryers.
3. Manufacturer's installation and maintenance instructions.
4. Copy of warranty required by Paragraph 1.5 for review by Architect.

1.4 QUALITY ASSURANCE

- A. Hand dryers shall be certified by Underwriters Laboratory (UL), Inc. and shall bear UL labels.

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******* Hand dryers in public facilities should be installed to accommodate persons with disabilities. Mounting height and projection of dryer into circulation spaces are factors to consider. Barrier-free regulations may vary depending on project location. *******

- B. Hand dryers shall be provided and installed in compliance with ADA and ICC/ANSI A117.1.

1.5 WARRANTY

- A. Provide under provisions of Section 01780 - Closeout Submittals: 10 years warranty for electric hand dryers to cover defects in material and workmanship.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Mediclinics, S.A. and distributed by its subsidiary Saniflow Corporation, 2655 LeJeune Road, Suite 810, Coral Gables, Florida 33134; 866-424-2433; www.saniflowcorp.com.
- B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01630 - Product Substitution Procedures.

2.2 ELECTRIC HAND DRYER

******* Mediclinics, S.A. manufactures the following ten models of Saniflow Hand Dryer. They vary in cover material, finish, and method of operation: *******

<u>E88</u>	Steel sheet, push-button operated, white porcelain enamel finish.
<u>E88C</u>	Steel sheet, push-button operated, bright chrome finish.
<u>E88CS</u>	Steel sheet, push-button operated, satin chrome finish.
<u>E88O</u>	Steel sheet, push-button operated, gold plated finish.
<u>E88A</u>	Steel sheet, sensor operated, white porcelain enamel.
<u>E88AC</u>	Steel sheet, sensor operated, bright chrome finish.
<u>E88ACS</u>	Steel sheet, sensor operated, satin chrome finish.
<u>E88AO</u>	Steel sheet, sensor operated, gold plated finish.
<u>E85</u>	Cast iron, push-button operated, white porcelain enamel finish.
<u>E85A</u>	Cast iron, sensor operator, white porcelain enamel finish.

Edit the following paragraph to indicate selected model number. *****

- A. Type: Warm air, wall mounted, durable, compact, electric hand dryer with anti-vandalism features and low energy consumption; Saniflow Hand Dryer Model No. [E88] [E88C] [E88CS] [E88O] [E88A] [E88AC] [E88AO] [E85] [E85A] as manufactured by Mediclinics, S.A. and distributed by its subsidiary Saniflow Corporation.
- B. Performance requirements:
 - 1. Airflow: [203 cubic feet per minute] [5.75 cubic meters per minute].

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2. Air velocity: [5,512 linear feet per minute] [1,680 linear meters per minute].
3. Air temperature at [4 inches] [102 mm] below outlet at [70 degrees F] [21 degrees C] ambient temperature: [128 degrees F] [53 degrees C].
4. Average drying time: 29 seconds.

******* Loudness of operating hand dryer is measured as sound pressure level (SPL) which is defined as the ratio of the generated sound to the threshold of hearing. SPL is measured in decibels (db). An SPL of 3 db is barely perceptible, face to face conversation is 60 db, and noise inside a speeding automobile is 80 db. An 10 db increase in SPL is perceived as a sound twice as loud. *******

5. Sound pressure level (SPL): 70 decibels maximum.

******* Cast iron dryers, E85 and E85A, are 11-1/8 by 10 by 8-1/2 inches (282 by 255 by 215 mm). All other Saniflow Hand Dryer models are 11 by 9-3/4 by 8-1/4 inches (278 by 248 by 210 mm). *******

- C. Nominal size: [11 inches wide by 9-3/4 inches high by 8-1/4 inches deep] [11-1/8 inches wide by 10 inches high by 8-1/2 inches deep] [278 mm wide by 248 mm high by 210 mm deep] [282 mm wide by 255 mm high by 215 mm deep].

******* Steel sheet dryers weigh 14.3 pounds (6.5 kg) and cast iron models weigh 23.4 pounds (11.5 kg). *******

- D. Weight: [[14.3] [23.4] pounds.] [[6/5] [11.5] kg.]

2.3 COMPONENTS

******* Saniflow Hand Dryers are provided with either sheet steel or cast iron covers in four different finishes. Refer to model list above and edit the following paragraph to reflect model being specified. Cast iron covers are only provided with white porcelain finish. *******

- A. Cover: One-piece cover fabricated from [[[1/16 inch] [2 mm] thick sheet steel with [bright chrome plated finish.] [satin chrome plated finish.] [24K gold plated] finish.]] [[1/4 inch] [6 mm] thick cast iron with white porcelain enamel finish.]
 1. Cover to be field attached to base with vandal proof screws and locked with special key wrench.
 2. Provide cover with rotating die cast air nozzle to focus air stream.
- B. Base: Die cast aluminum base with factory attached dryer components. Provide with fasteners for attachment to wall.
- C. Motor: 1/3 HP, 5,500 RPM, universal brush type.
- D. Fan: Double inlet, centrifugal, aluminum fan.

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- E. Heating element: 1,600 watt with Ni-Crom 40 wire.
- F. Power requirements: 110/120 volts, 50/60 Hz, 16 amps.

******* As listed above, Saniflow Hand Dryers can be operated with push-button or sensor. Edit the following paragraph to reflect selected hand dryer model. *******

- G. Operation: [Push button starts dryer which operates for 34 seconds.] [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.]

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 specified in [Section 09310 - Ceramic Tile.] [Section 09900 - Painting.] [_____].

3.2 INSTALLATION

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

******* Recommended mounting height in facilities used by persons with physical disabilities is 32 inches (813 mm) and maximum mounting height to comply with ICC/ANSI A117.1 is 40 inches (1016 mm). Recommended height for adult usage is 38 to 40 inches (965 to 1016 mm). 30 to 36 inches (762 to 914 mm) heights are appropriate for children usage. *******

- B. Mount dryers at [heights indicated on Drawings and approved shop drawings.] [the following heights above floor surface:]
 - 1. Adult usage: [[_____] inches] [[_____] mm].
 - 2. Children usage: [[_____] inches] [[_____] mm].
 - 3. Use by persons with physical handicaps: [[32] [_____] inches] [[813] [_____] mm].]
- C. 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 CLEANING, TESTING, AND DEMONSTRATING

- A. Remove protective wrappings. Clean surfaces with mild soap solution. Do not use

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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.

END OF SECTION