

SECTION 13 60 00
SPRAY PAINTING BOOTH

PART 1 GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work in this section.

1.2 DESCRIPTION OF WORK

- A. Provide a Pressurized Dry Filter Booth/Paint Mix System as specified herein or as shown on the drawings.

1.3 REFERENCES

- A. FM – Factory Mutual
- B. OSHA – Occupational Safety and Health Administration
- C. UL – Fire Hazard Classifications

1.4 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum 5-years documented experience.

1.5 SUBMITTALS

- A. Provide product data on unit construction, size, configuration, jointing methods, and attachment method.
- B. Provide manufacturer's installation instructions, indicating any special installation criteria to interfacing with adjacent components.

1.6 REGULATORY REQUIREMENTS

- A. Conform to applicable Code for UL and FM requirements
- B. Florida Building Code
- C. Florida Fire Prevention Code

PART 2 PRODUCTS

2.1 SPRAY BOOTH SYSTEM

- A. Pressurized Dry Filter Booth shall be Model # T1000 as manufactured by Spray Systems or approved equal. Outside Dimensions shall be 26'-10" L x 14'-11" W x 10'-0" H.
 - 1. Booth shall be 18-ga G90 galvanized steel and a 12-ga base angle.
 - 2. Door shall be one set of single leaf entrance doors, 8'-9½" H x 9'-2¼" W having a structural tube frame, continuously welded, with leak proof seals at the base.
 - 3. Door will also have heavy-duty safety latches.
 - 4. Side access door shall be 36"-W x 84"-H with one observation window, 18"-W x 36"-H x ¼"-T clear-tempered glass.
 - a. Door will also have heavy-duty safety latches.
 - 5. Lighting: Manufacturer's standard UL approved lighting package.
 - 6. Exhaust System:
 - a. Provide two 34" dia high efficiency tube axial fans, one for exhaust, and one for supply.
 - b. Average face velocity through the booth shall be 100 FPM.
 - c. System shall carry a 5-year manufacturer's warranty.
 - 7. Exhaust Filters: (22) American Air Filters, AG28, 20" x 25" with holding hardware, UL approved.

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8. Intake Filters: (20) Viledon, R-1, 20" x 25" with holding hardware, 95% efficiency rating.
9. Draft Gauge: (2) Dwyer Mark II manometer to indicate replacement of filters.
10. Provide all necessary hardware and caulking as required for a complete working system.
- B. Paint Mix Room shall be Model # MR-1089 as manufactured by Spray Systems or approved equal, with an outside dimensions of 10'-4" W x 9'-11" H x 9'-8" D.
 1. Room shall be 18-ga construction G90 galvanized prime steel.
 2. Side access door shall be 36"-W x 84"-H with one observation window, 18"-W x 36"-H x ¼"-T clear-tempered glass.
 - a. Door will also have heavy-duty safety latches.
 3. Lighting: Manufacturer's standard UL approved lighting package.
 4. Exhaust System:
 - a. Provide one 9" dia. Intake blower and one 9" dia. Exhaust blower.
 - b. Fan system shall be capable of exhausting 930 CFM @ 0.25 static pressure, 1.3 air changes per minute, 78 air changes per hour, with a max paint quantity of 180 gal
 - c. System shall carry a five-year manufacturer's warranty.
 5. Exhaust Filters: (22) American Air Filters, AG28, 20" x 25" with holding hardware, UL approved.
 6. Intake Filters: (5) Viledon R-1, 20" x 25" with holding hardware.
 7. Draft Gauge: (2) Dwyer Mark II manometer to indicate replacement of filters.
 8. Provide all necessary hardware and caulking as required for a complete working system.
 9. Provide a 4" x 4" prefabricated curb; spill containment, and a diamond-plate material approach ramp.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Coordinate with installation of Division 23.

3.2 PROTECTION OF FINISHED WORK

- A. Protect adjacent surfaces from damage by material installation.
- B. Protect installation during construction activities.

END OF SECTION