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 ¾"-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.
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