



## **SECTION 15800**

### **AMBIENT AIR FILTRATION SYSTEM**

#### **PART 1: GENERAL**

##### **1.1 SECTION INCLUDES**

- A. Ambient Air Cleaning Equipment
- B. Installation

##### **1.2 RELATED SECTIONS**

- A. Division 15 – Mechanical
- B. Division 16 – Electrical

##### **1.3 SUBMITTALS**

- A. Product Data: Manufacturer's literature, specification sheet, required accessories, unit weight & size.
- B. Contractor to provide layout drawing with unit locations and installation methods.
- C. Equipment Submittals
  - 1. 2 copies of manufacturer's operation and maintenance manual.
  - 2. Warranty Data and Submittal form.

##### **1.4 QUALITY ASSURANCE**

- A. Employee and experienced Installer to perform the scope of this section who specializes in the installation of air filtration equipment. Installer shall have completed similar successful projects in the past.
- B. Manufacturer shall be regularly engaged in the manufacture of air filtration products with a record of successful performance.
- C. Manufacturer's rep shall conduct an on site review of installation methods prior to construction.

## **1.5 DELIVERY, STORAGE & HANDLING**

- A. Deliver assembled products in a protective crate and cover.
- B. Store in a clean, dry location until installed.

## **1.6 WARRANTY**

- A. Units shall carry a minimum 3 year warranty on parts to protect against manufacturing & material defects. *Consumable items not included.*

## **1.7 SITE CONDITIONS**

- A. Verify all dimensions and locations in field prior to installation.
- B. Coordinate locations with existing and new utilities/fixtures.

## **PART 2: PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Industrial Maid  
531 S. 12<sup>th</sup> Rd.  
Cortland, NE 68331  
USA  
P. 402-798-7116  
F. 402-798-7117  
E. [jzvolanek@industrial-maid.com](mailto:jzvolanek@industrial-maid.com)

### **2.2 MANUFACTURED UNITS**

- A. Ambient Air Filters: Model T3000x2
  1. ¾ hp, 115/230, single phase, 60 hertz motor.
  2. Centrifugal, direct drive, forward curved blower.
  3. Modular cabinet frame constructed of powder coated 12 & 14 ga. mild steel. Unit's construction shall allow for the addition of future expansion modules with no field modification of the existing frame.
  4. Cabinet Panels shall be constructed of a recyclable high density poly ethylene material with matte finish, meeting ISO 14001 criteria for the buyer's use of recyclable products.
  5. Provide (4) pleated prefilters
    - a. 89 SF total media
    - b. Electrostatically Charged, 100% Synthetic media.
    - c. Merv 7 Efficiency, ASHRAE 52.2

6. Provide (4) Extended Surface Bag Filters
    - a. 541 total SF of Media.
    - b. Media shall be a micro fine fiberglass.
    - c. MERV 14 Efficiency, ASHRAE 52.2
  7. Provide pre-punched holes for thru mounting ½” threaded rod during installation.
  8. 4-way extruded aluminum exhaust grille, mill finish.
  9. Assemble unit with neoprene washer, bond seal screws.
  10. Unit rated at 3,000 CFM @ .5” W.G.
  10. Unit to weigh Maximum of 250 lbs. with clean filters.
- NOTE – Number of units required depends on the volume and scope of each individual project, consult project engineer to verify prior to bidding.

### **2.3 FABRICATION**

- A. Assembly units to the greatest extent possible for proper shipping. Provide crate and covering to protect unit during shipping.

## **PART 3: EXECUTION**

### **3.1 EXAMINATION**

- A. Verify the project site is ready to receive the ambient air filtration system.
- B. Notify the project manager and do not proceed with installation until conditions are acceptable for installation.

### **3.2 INSTALLATION**

- A. Install units in accordance with manufacturer’s instructions.
- B. Install Ceiling mounted units with (4) ½” threaded rods, through mounted in prefabricated mounting holes, use nylock nuts and flat washers on each rod.
- C. Verify proper rotation of blower with qualified electrician prior to start-up.

### **3.3 CLEANING**

- A. Clean area of all debris caused by the installation of the air cleaners. Clean units of debris and dust caused during installation.

**END OF SECTION**