

## 1.6 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Filters: Comply with Division 23 Section "Particulate Air Filtration" requirements.
  2. Gaskets: One set for each access door.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Haakon Industries
  2. Innovent
  3. Mafna Air Technologies
  4. Nortek Air Solutions (NAS): HuntAir Division
  5. Nortek Air Solutions (NAS): Temtrol Division
  6. Nortek Air Solutions (NAS): Venmar Division

### 2.2 MANUFACTURED UNITS

- A. Air-handling units shall be factory assembled and consist of fans, motors, coils, plenums, filters, condensate pans, dampers, energy recovery package, roof curb and accessories.

### 2.3 CABINET

- A. Materials: Complete structural frame with reinforced insulated panels, fabricated to allow removal for access to internal parts and components, with joints between sections sealed.
1. General: Casing deflection shall not exceed a 1:200 ratio when subject to an internal pressure of +/- 6-in. wg. Casing leakage rate shall be less than 1% at 6-in. wg. of nominal unit airflow or 50 CFM, whichever is greater. Factory witness leak testing and/or test reports shall be available upon request.
  2. Unit shall be Non Thermal Break construction with 2" - Double Wall Casing (Std) and Injected Foam (R-value 6.9/in) insulation Casing Construction, Indoor Units: 2-inch minimum, double-wall.
  3. Interior Casing: Internal casing shall be 20ga Aluminum (.032) Not Painted.
  4. Exterior Casing: External casing shall be Painted (Acrylic Air Dry) with 20ga - Galvaneel (Painted Unit) panels. Paint tested per ASTM B117 to 1250 hours.
  5. Unit Base: Welded Structural steel channel, minimum 14 gage with welded lifting lugs.
  6. Floor: 2-inch double-wall, aluminum, minimum 16 gage interior walk-on surface, 22 gage minimum exterior.
  7. Base Rail: Full perimeter.
  8. Finish: Primed with 2 finish coats of air-dry enamel.
- B. Cabinet Insulation: Comply with NFPA 90A.
1. Materials: spray injected foam.
  2. Thermal Conductivity R: Minimum 12.5 BTU/hr-ft<sup>2</sup>-degF.
  3. Fire-Hazard Classification: Maximum flame-spread index of 25 and smoke-developed index of 50, when tested according to ASTM C 411.