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## PART 2 - PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURERS

- A. The following manufacturers are approved for use. No substitutions will be permitted.
1. McQuay 'Vision Plus' Air Handler shall be the basis of design.
  2. Mafna Air Technologies
  3. Ventrol
  4. CES
  5. Racan-Carrier Company

### 2.2 GENERAL DESCRIPTION

- A. Configuration: Fabricate as detailed on drawings.
- B. Performance: Conform to ARI 430. See schedules on prints. (NOTE: above does not apply to fan array)
- C. Acoustics: Sound power levels (dB) for the unit shall not exceed the specified levels shown on the unit schedule. The manufacturer shall provide the necessary sound treatment to meet these levels if required.

### 2.3 UNIT CONSTRUCTION

- A. Fabricate unit with heavy gauge channel posts and panels secured with mechanical fasteners. All panels, access doors, and ship sections shall be sealed with permanently applied bulb-type gasket. Shipped loose gasketing is not allowed.
- B. Panels and access doors shall be constructed as a 2-inch nominal thick; thermal broke double wall assembly, injected with foam insulation with an R-value of not less than R-13.
1. The inner liner shall be constructed of G90 galvanized steel.
  2. The outer panel shall be constructed of G90 galvanized 18-gauge steel.
  3. The floor plate shall be furnished with .125 inch thick aluminum tread plate in sections as indicated on project schedule.
  4. Unit will be furnished with solid inner liners.
- C. Panel deflection shall not exceed L/240 ratio at 125% of design static pressure, maximum 5 inches of positive or 6 inches of negative static pressure. Deflection shall be measured at the panel midpoint.
- D. The casing leakage rate shall not exceed 1% of supply air volume at design static pressure up to positive or negative 8 inches (1.99Kpa).