

27. Submit complete operating and maintenance instructions to comply with the requirements defined in Section 20 01 06.

## PART 2 - PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURERS

- A. The following manufacturers/vendors of custom air handling units are approved for this project subject to the requirements of this specification:
1. AHU-20 to AHU-23
    - a. Fully Custom Units: Haakon, Engineered Air, Scott Springfield, Huntair, Trane Custom, JCI/York Custom, Mafna.
  2. AHU-1 to AHU-19
    - a. Semi Custom Units: Ventrol, Venmar, Trane, JCI/York, McQuay, AAON, Engineered Air, Mafna
- B. The following heat wheel manufacturers are approved for use as part of the AHU assembly:
1. Seibu Giken America - HPC
  2. Semco -TE-3
  3. Thermotech – TF
  4. DRI – MS 270
  5. Enthalpy wheels utilizing Silica Gel type desiccants are not permitted.

### 2.2 PRODUCTS

- A. The specified casing dimensions, clearances, face velocities, capacities, coil rows and fin series, fan sizes, etc. are to be considered as minimums. All products are to meet or exceed the design performance listed.

### 2.3 TYPE

- A. Provide units defined on plans, air handling unit of unitary design suitable for 3000 Pa pressure operation in configuration indicated.
- B. Provide factory assembled Air Handling Units in configuration as indicated on the drawings. Unit shall include all specified components installed at the factory. Field fabrication of units and their components will not be accepted.

### 2.4 CONSTRUCTION

- A. All walls and roofs shall be constructed of minimum 100 mm thick “double wall” acoustical thermal panels (minimum 1.6 mm). Exterior wall panels shall be a minimum of 1.6 mm satin coat steel. The inner wall upstream of the final filters shall be a minimum of 0.9 mm, perforated galvanized steel. The inner wall downstream of the final filters shall be a minimum of 0.9 mm, solid galvanized steel. The insulation shall be 50 mm, 68 kg/m<sup>3</sup> (minimum) density fibreglass.