

## CUSTOM AIR HANDLING UNITS

- .3 Factory flow test procedure;
  - .1 Connect supply discharge ductwork including minimum of two turning fittings and at least 3 m (10 ft) of straight ductwork with airflow measuring station in ductwork and balancing damper at end of ductwork to emulate system characteristics.
  - .2 Conduct tests for at least five points between shut-off and run-out at rated motor kW with fan speed appropriate for specified Point of Rating; Measure and record test data as follows;
    - (a) pressure drops across coils and filters
    - (b) fan inlet and discharge static pressure relative to test chamber,
    - (c) fan input kW
    - (d) fan supply air volume
    - (e) fan speed.
- .4 Submit test report and plot of pressure flow characteristic on catalogue fan curve for review as shop drawing.
- .5 Correct problems identified during factory performance testing prior to shipping and manufacture of remaining units.

## 2. PRODUCTS

### 2.1 General

- .1 Factory assembled, from base, frame, casings, access doors, components such as fans, coils, filters, dampers, humidifiers, motors, belt and variable frequency drives, drip pans, stratification eliminators, vibration isolation, silencers, inlet cowls, louvres, and accessories as shown and specified.

#### *Standard of Acceptance*

- o Haakon
- o Racan (Carrier)
- o Trane Ingenia
- o Mafna - Applied Energy
- o Ventrol

### 2.2 Materials

- .1 Galvanized steel:
  - .1 ASTM A-527 lock-former quality
  - .2 ASTM A525-75 designation G90 class for unpainted surfaces,
  - .3 satin coat steel for painted surfaces.
- .2 Stainless Steel:
  - .1 type 304/304L to ASTM A480 Specification for General Requirements for Flat Rolled Plate, Sheet and Strip
- .3 Aluminum:
  - .1 Type 3003-H-14,
- .4 Insulation:
  - .1 50mm (2") thick Mansville "Permacoate Linacoustic R-300" or AP/Armaflex SA Black acoustic