

Custom Air Handling Units

- .3 Use a calibrated orifice plate and blower unit to measure air leakage rate at test pressure.
- .4 Pressure test air leakage to be not more than 1½ % of unit airflow capacity at 2.5 kPa (10 in) static test pressure.

Correct problems identified during factory performance testing prior to shipping..

1.5 Site Testing

- .1 Conduct `at Site' pressure test and flow test of all assembled units.
- .2 Site pressure test;
 - .1 to be as per factory pressure test.
- .3 Site flow test;
 - .1 Conduct tests to measure and record test data as follows;
 - (a) pressure drops across coils and filters, moisture eliminators, and heat recovery devices.
 - (b) fan inlet and discharge static pressure, total static pressure (cfm/L/s)
 - (c) fan input(kW/bHp.)
 - (d) fan motor rpm, running amps, full load amps
 - (e) AFD frequency (where applicable)
 - (f) fan supply air volume
 - (g) fan speed(rpm).
- .4 Contractor to co-ordinate installation of AHU attached ductwork to allow pressure testing of AHU's prior to connection of supply, return, and exhaust ducts to AHU to allow connection of manufacturer supplied pressure testing equipment.
- .5 Provide permanent test ports c/w cap and chain in each section of unit centered above each access door
- .6 Submit test report and plot of pressure flow characteristic on catalogue fan curve for review as shop drawing.

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, eliminators, vibration isolation, silencers, inlet cowls, louvres, and accessories as shown and specified.

Standard of Acceptance

- Haakon
- Mafna(Applied Energy)
- Ventrol -Mammoth(EFI)

2.2 Materials

- .1 Galvanized steel:
 - .1 ASTM A-527 lock-former quality
 - .2 ASTM A525-75 designation G90 class for unpainted surfaces,