

1.5 Factory testing

- .1 Conduct factory pressure test and flow test of [[one] assembled unit.
- .2 Factory pressure test procedure;
 - .1 For centrifugal fan in blow through configuration and plenum type fans;
 - (a) temporarily seal off fan suction and supply duct connections and test downstream section under positive pressure;
 - (b) seal off fresh air and recirculation dampers on fan suction side and test upstream section under negative pressure.
 - .2 For centrifugal type fans in draw-through units;
 - (a) seal off fan discharge and fresh air and recirculation dampers and test unit under negative pressure.
 - .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 1.25 kPa (5 in) static test pressure.
- .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.][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, eliminators, vibration isolation, silencers, inlet cowls, louvres, and accessories as shown and specified.

Standard of Acceptance

- Haakon
- Engineered Air
- **MAFNA**
- Racan (Carrier/EFI)
- York Custom