Daikin Series Fan VAV Box

Description
MQFCI6 series fan powered terminal units provide a constant volume of airflow via the fan. The fan is on during both heating and cooling operations. Series MQFCI6 is available in 6 casing sizes.

Available Features
Units include:
- Inlet velocity sensor
- 1" dual density fiberglass insulation
- Flanged discharge
- SCR fan speed control
- 20 gauge primary air valve
- 22 gauge casing
- 18 gauge discharge
- Bottom motor access panel
- Control enclosure with mounting plate
- ECM motors are available on case sizes 2, 4 and 6
Figure 1: MQFCI6 Components

All units are ELT listed to UL Standard 1995 and CSA-C22.2 No. 236. All electrical components are UL certified and listed.

For long life and continuous operation, the damper shaft rotates in a self-lubrication Kepital® (acetal resin) bearing (Not visible in photo).

Control panel includes stand-offs to allow mounting of controls without penetrating the casing.

All electrical wiring is connected using quick-disconnect bulkhead fittings allowing easy servicing of electrical components.

Inlet panel is one-piece construction to increase rigidity and to reduce radiated sound.

All units are shipped with easy access balancing taps. The extra ports can be used to read CFM (through velocity pressure) directly at the unit.

Figure 2: MQFCI6 Details

VAV Box Inlet

Bead formed on inlet tube for rigidity and to allow for a tight flex duct connection.

Seamless weld.

Average signal pressure is obtained in 4 quadrants.

Damper Drive Shaft

Damper position indicator.

Pressure Lines

Brass barbed fittings for tube connection to VAV Controller.

• Red stripe: Low pressure tap
• Blue stripe: High pressure tap

Metal sensor tubes extend through the inlet tube, allowing external connections (shown with dust covers).