Daikin Parallel Fan VAV Box

Description
MQFVI5 parallel fan-powered terminal units provide a variable volume of airflow via the primary air valve. The fan is only operated in the heating mode. Series MQFVI5 is available in 7 casing sizes.

Available Features
Units include:
- Inlet velocity sensor
- 1" dual density fiberglass insulation
- Flanged discharge connection
- SCR fan speed control
- 20 gauge primary air valve
- 22 gauge casing
- 18 gauge discharge
- Bottom access panel
- Control enclosure with mounting plate
- ECM motors are available on case sizes 3 and 6
**Figure 1: MQFVI5 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.

18 gauge fan mounting bracket is designed to allow easy removal of fan assembly for servicing.

3" wide mounting lip provides easy installation and removal of panel. Panels can be removed without disturbing trapeze-type hanging brackets.

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.

Induced air inlet baffles ensure uniform loading of the fan and reduce radiated sound levels.

Optional filter rack is available for 1" thick filters.

Multi-quadrant Averaging Flow Sensor provides an accurate flow signal and can maintain accuracy after a certified balancer has calibrated the terminal. (Shipped standard on all units)

Round primary inlet tubes are constructed with a seamless butt-weld for rigidity and to eliminate leakage. It also includes a bead that strengthens the tube and provides a recess for flex duct straps.

**Figure 2: MQFVI5 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).