

FR Series

Inline Centrifugal Fans

Description

A centrifugal type exhaust/supply fan specifically designed for moderate size ventilation applications. Fans are not designed for nor should be used in radon applications. The fan can be mounted in any angle at any point along the duct work and straight-through air flow design allows easy installation. By using accessory FC type mounting clamps fan can easily be removed from duct work for service. Fans are constructed in accordance with standard dimensions for spiral duct eliminating the need for transition pieces. Fan motors are capable of operating in air stream temperatures up to 140 °F. Motor bearings are permanently sealed, self lubricating ball type. All fans are 100% speed controllable through a decrease in the voltage by using a solid state or transformer type control. All FR Series fans are backed by Fantech's Five Year Warranty.

Guide Specifications for Model FR Inline Duct Fans

Supply, exhaust or return air inline fans shall be of the centrifugal, direct driven type.

Construction

Housing

- Fan housing shall be constructed of UV resistant ABS-PC blend thermo plastic
- * Fan housing shall be constructed of UV resistant, flame retardant Polycarbonate (PC) thermo plastic.
- * Fan housing shall be a single piece casing formed by the joining of inlet and outlet pieces via a vibration welding process. The joining process shall not utilize mechanical fasteners, caulk or adhesive, and the seam where the pieces were joined shall be permanent and inherently leak free.
- Capacitor shall be provided and shall be located within the fan electrical terminal box for easy access.
- * Electrical terminal box is water tight.

Motor

- Motorized impeller shall be an external rotor type, class B insulation, totally enclosed PSC Type for maximum efficiency.
- Motor shall be a permanently sealed self lubricating ball bearing type.
- Motor shall be equipped with automatic reset thermal overload protection.
- Motor shall be acceptable for continuous duty.
- Sufficient service factor shall be provided to ensure long maintenance free operation over maximum load conditions.

Wheel

- Fan wheel shall be of the backward inclined centrifugal type with a well designed inlet venturi for maximum performance.
- Motorized impeller shall be both statically and dynamically balanced as one integral unit to provide for vibration free performance.

Performance

- Fan air flow performance shall be certified by HVI and licensed to bear the HVI Tested/Certified Performance Logo.

Code Approval

- Fan shall be certified by UL for safety.

FR Series shall be manufactured under the authority of Fantech, Inc., Lenexa, KS.

* for FR100, FR1250, FR140, FR150 and FR160 only