

Fantech FRD Series Fans

Description

A compact series of centrifugal type exhaust/supply fans specifically designed for installations where space is limited. FRD Series fan housing design allows for installation directly within rectangular duct work without the need for large elbows or transitional sections. The FRD Series fans feature a hinged door to which the motor is mounted. This door simply “swings out” of the housing to provide service access. Fans can be mounted in any angle at any point along the duct work. All fans utilize a non-overloading backward inclined wheel. Motors are capable of operating in air stream temperatures of up to 140° F. All fans are 100% speed controllable through a decrease in the voltage by using a solid state or transformer type control. All FRD Series fans are backed by **Fantech’s Three Year Warranty**.

Guide Specifications for Model FRD 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 heavy gauge galvanized sheet metal with a protective baked enamel finish.
- Fan housing design shall allow installation connections directly to or within rectangular duct work.
- Fan housing shall include a hinged door on which the motor is mounted in order to permit service access to the motor without removing the fan from the duct work.
- Fans shall be supplied with electrical terminal box and pre-wired terminal strip connections.

Motor

- Motorized impeller shall be an enclosed external rotor type.
- Motor shall be 115V permanent split capacitor type.
- 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.
- Impellers for models FRD 12-6 through FRD 20-10 shall be molded of high impact polypropylene.
- Impellers for model FRD 24-14 shall be constructed of steel.

Performance

- Fan performance shall be based on tests conducted in accordance with AMCA Standard 211 and 311 and shall be licensed to bear the AMCA Certified Ratings Label.

Code Approval

- Fan shall be tested and approved by UL (or equal) for safety.

FRD Series shall be manufactured under the authority of Fantech, Inc., Sarasota, FL.



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Fantech, reserves the right to modify, at any time and without notice, any or all of its products' features, designs, components and specifications to maintain their technological leadership position.

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