

DQC Series Inline Fans

INSTALLATION, OPERATION, AND MAINTENANCE MANUAL

This publication contains the installation, operation and maintenance procedures for standard units of the *DQC Series Fans*

Carefully read this publication prior to installation.

Receiving and Inspection

Carefully inspect the fan and accessories for any damage and shortage immediately upon receipt of the fan.

- Turn the wheel by hand to ensure it turns freely and does not bind.
- Inspect dampers (if included) for free operation of all moving parts.
- Remove shipping tape.
- Record on the *Delivery Receipt* any visible sign of damage.

Handling

Lift fan by the outside housing (box) or by the blower mounting brace.

Storage

If the fan is stored for any length of time prior to installation, store it in its original shipping crate and protect it from dust, debris and weather.

WARNING

This unit has rotating parts. Safety precautions should be exercised at all times during installation, operation, and maintenance.

ALWAYS disconnect power prior to working on fan

PERSONAL SAFETY

Disconnect switches are recommended. Place the disconnect switch near the fan in order that the power can be swiftly cut off in case of an emergency, and in order that maintenance personnel are provided complete control of the power

Low Profile DQC-Series



Removable Bottom Access

Installation

Motor Installation

All DQC units are shipped with motors mounted at the factory.

Fan Installation

1. DQC Series fans are compact, versatile and may be mounted in any position. The recommended mounting location of the fan is a minimum of 15 linear feet from the dryer exhaust port in order to avoid moist or wet lint to gather in the fan. If a lint trap is being used between the fan and the dryer, the fan can be mounted closer than the recommended 15 feet. The DQC fan warranty is increased from three(3) to five(5) years if FanAm's 2100 Series lint trap is used in conjunction with the fan.

2. Because this unit has rotating parts, safety precautions should be exercised during installation, operation and maintenance procedures.

3. **WARNING!** Unless specifically built for hazardous environments, do not use the fans where the electrical system could ignite combustible or flammable material.

4. Remove unit from package and inspect within 15 days after receipt. If damaged, report damage to carrier. Do NOT operate this unit with visible damage to the blower or impeller assembly. Turn centrifugal impeller by hand to assure free rotation.

5. **CAUTION:** Before proceeding with installation, make sure there is no electrical connection. All wiring should be in accordance with local ordinances and the National Electric Code.

WARNING: Check voltage to the fan to assure it corresponds with the motor name plate.

6. **CAUTION:** Always vent this unit to the outside, **NOT** into spaces within ceilings or walls, attics, crawl spaces, garages, etc.

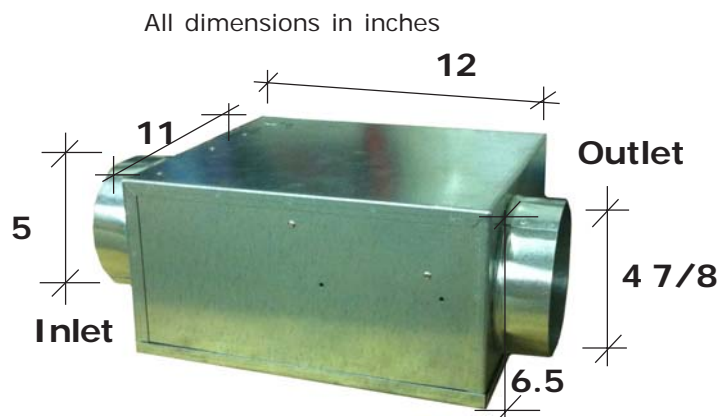
7. Keep drywall spray, construction dust, etc., off and out of the impeller assembly to avoid motor bearing damage, noise, or unbalanced impellers.



DQC

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Detailed Installation Instructions



1. Provide a solid frame against which the unit will be mounted (see dimensional data for proper frame sizing). Make sure that the housing will be flush with the finished ceiling, once the unit has been fixed into the frame.
2. Bend mounting bracket and fasten it in desired location in the ceiling.
3. Mount brackets with self-drilling tap screws in desired position on the unit housing. Fan mounting brackets are adjustable vertically on the fan housing.
4. Hang unit. Tighten mounting screws as firmly as possible to assure secure support and lowest possible sound levels. Note: A secure solid frame will also help sound levels to remain at a minimal.

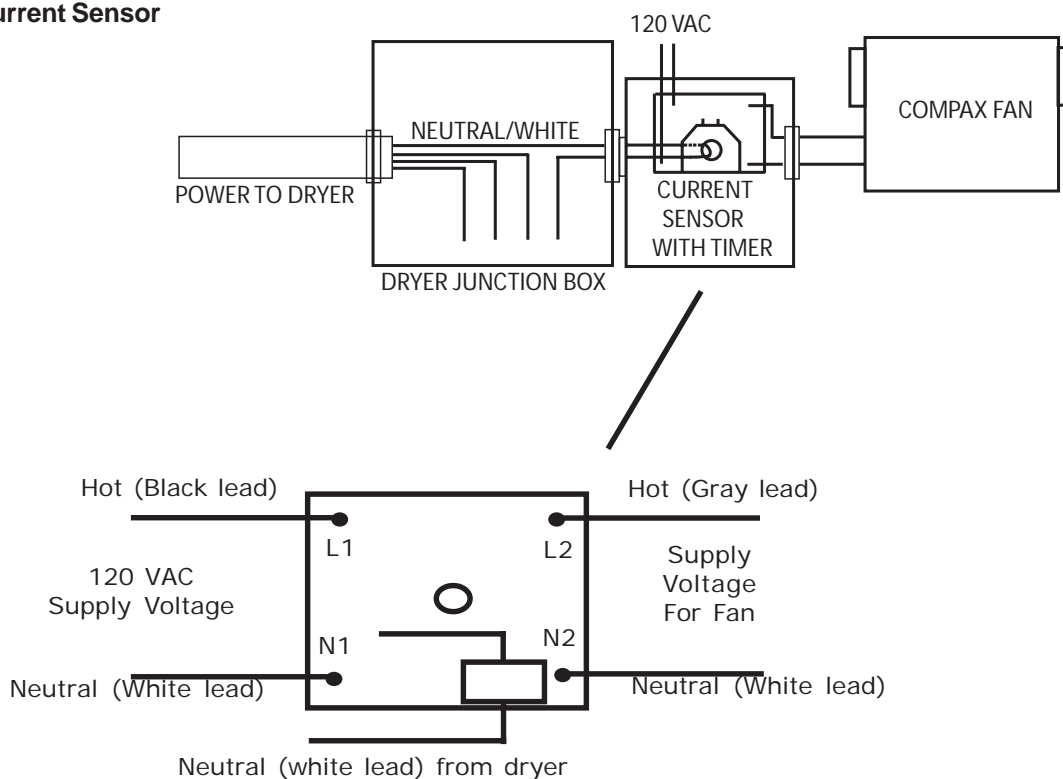
5. Wire unit.

Turn power off at circuit breaker or fuse panel

- a) Remove desired knockout and open fan terminal box from inside the fan.
Connect incoming electric supply per wiring diagram.
 - b) Use appropriate electrical connector and strain relief to secure the incoming electric cable.
6. Connect ductwork to the collars 4 and 5 inch. Tape joints with duct tape.
 7. Reattach lid with screws.

Wiring Diagrams

Using Current Sensor



Wiring Diagrams cont.

SPECIAL WIRING PRECAUTIONS

*All installations should be wired according to the following diagrams.
Failure to comply will cause the motor to “hum” or not work.*

1. Turn off power at service entrance before wiring this fan.
2. Read the fan serial number to determine the current draw. Check that available supply is suitable.
3. Be certain to use proper connector type for securing conduit cable.
4. Connect electrical supply per diagrams supplied here.

Troubleshooting

1. If fan fails to operate, please check the following:
 - a) Fan has power.
 - b) Consult wiring diagrams included to assure proper connection.
 - c) To assure proper contact, check motor lead wiring, incoming supply wiring and capacitor connections.
 - d) If possible, use a meter to test for continuity between fan leads. Please note that capacitor will show no reading if tested with meter.
2. If fan still fails to operate, consult FanAm Distributor for return/replacement instructions.

Maintenance

1. Since fan bearings are sealed and have been provided with an internal lubricating material, no lubrication is necessary.
2. At least once a year, clean any particles accumulated in the fan.
CAUTION: Never attempt to open the fan without the electrical service to the fan locked in the “OFF” position.

Limitation of Warranty and Liability

This warranty does not apply to any FanAm product or part which has failed as a result of faulty installation or abuse, incorrect electrical connections or alterations made by others, or use under abnormal operating conditions or misapplication of the products or parts. We will not approve for payment any repairs not made by us or our authorized agent without prior written consent. The foregoing shall constitute our sole and exclusive warranty and our sole and exclusive liability, and is in lieu of all other warranties, whether written, oral, implied or statutory. There are no warranties which extend beyond the description on the page hereof. We do not warranty that said goods and articles are of merchantable quality nor that they are fit for a particular purpose. Our liability on any claim of any kind, including negligence, for any loss or damage arising from or connected with, or resulting from, the sale and purchase of the products and parts covered by this proposal, acknowledgement, order or from the performance or breach of any contract pertaining to such sale of purchase, or from the design, manufacture, sale, delivery, resale, installation, technical direction in installation, inspection, repair, operation or use of any product or part covered by the proposal, acknowledgement, order or furnished by FanAm shall, in no case, exceed the price allocable to the products or parts thereof which give rise to the claim and shall terminate at the end of the applicable warranty period of said product or part. In no event whether as a result of breach of contract, or warranty or alleged negligence, defect, incorrect advice or other causes, shall FanAm be liable for special or consequential damages, including but not limited to loss of profits or revenue, loss of use of equipment or any associated equipment, cost of capital, cost of substitute equipment, facilities or services, downtime cost, or claims of customers of purchases for such damages. FanAm neither assumes nor authorizes any person to assume for it any other liability in connection with the sale of its products or parts. Some jurisdiction do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

EXTENDED WARRANTY

FanAm warrants its COMPAX Series fan and parts to be free from defects in workmanship and service for period of one (3) years from the date of purchase. **If the unit is furnished with FanAm's lint trap, the warranty is extended to (5) years from the date of purchase.** Products and parts not specifically designed for use in a corrosive or explosive environment shall have no warranty and the user assumes full liability for use in such environments. Our obligation under this warranty is limited to the repair or replacement as our option, without cost at our facility, of any part or parts thereof which shall, within the warranty period, be returned to us with transportation charges prepaid, and which our examination discloses as being defective. All requests for repair or replacement must be directed to FanAm for authorization prior to the return of any product or part. This warranty gives you specific legal rights and you may also have other rights in the jurisdiction in which you reside. (It is incumbent upon the claimant to provide substantiation of purchase or installation dates if such question should arise.)

DISCLAIMER

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