

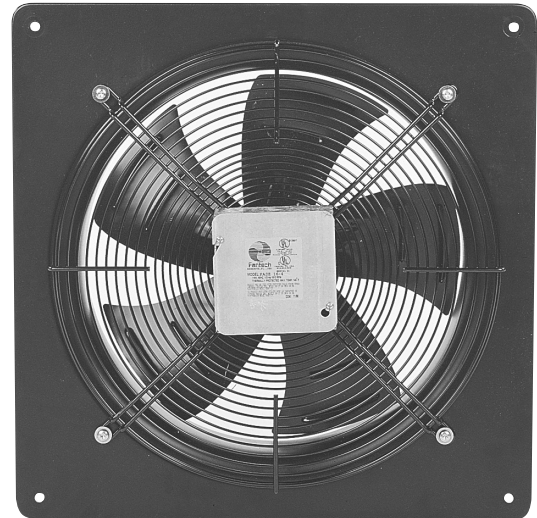


Fantech

Your Ventilation Solutions Company

Installation Instructions for Model FADE

READ & SAVE THESE INSTRUCTIONS!



Installation

1. FADE units can be mounted at any angle for exhaust ventilation. When planning installation, allow adequate space for blower removal for service or inspection.
2. Because this unit has rotating parts, safety precautions should be exercised during installation, operation and maintenance.
3. CAUTION: "For General Ventilation Use Only. Do Not Use To Exhaust Hazardous Or Explosive Material and Vapors."
4. Remove unit from package and inspect within 10 days after receipt. If damaged, report damage to carrier. Do Not operate this unit with visible damage to the blower or impeller assembly.
5. Ensure centrifugal impeller has free rotation. If impeller hits orifice, check screws holding motor bracket. Tighten all screws before operating unit. **WEAR HAND PROTECTION AND STAY CLEAR OF SHARP EDGES.**
6. Screen guards must be installed when fan will be within reach of personnel, within (7) feet of the working area, or when advisable for safety.
7. When mounting fan, the inside dimension of the opening should correspond to dimension "D" possibly allowing an extra 1/4". When using a louver or damper, provide adequate framing depth to accommodate the fan.

Warnings

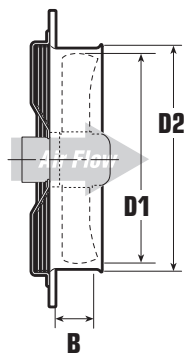
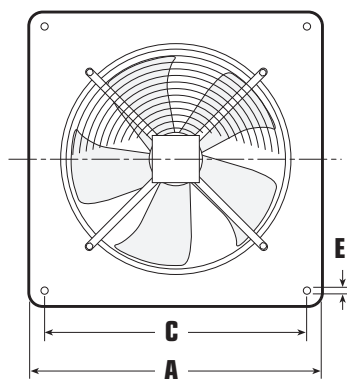
DO NOT CONNECT POWER SUPPLY until fan is completely installed. Make sure electrical service to the fan is locked in "OFF" position.

1. All units are suitable for use with solid-state speed control.
2. WARNING! TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS – OBSERVE THE FOLLOWING:
 - a. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact your manufacturer's representative.
 - b. CAUTION: Before installation, servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as tag, to the service panel.
 - c. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
 - d. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
 - e. When cutting or drilling into wall and ceiling, do not damage electrical wiring and other hidden utilities.
 - f. Ducted fans must always be vented to the outdoors.
 - g. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit.
 - h. NEVER place a switch where it can be reached from a tub or shower.
3. WARNING! Check voltage at the fan to see if it corresponds to the motor name plate.

Dimensions

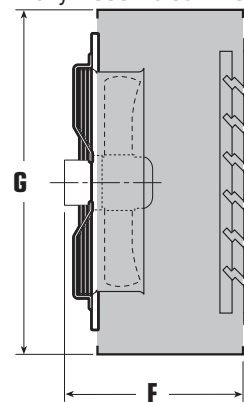
FADE S-TYPE

"Fan Only" Model



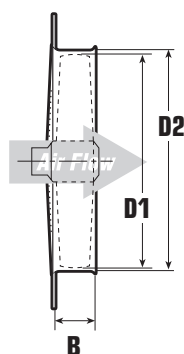
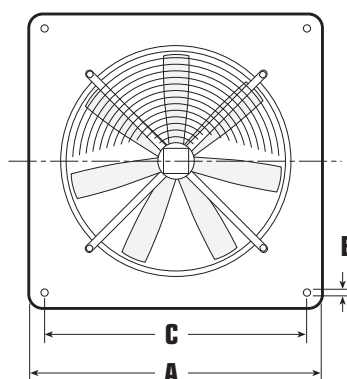
FADE S-TYPE

"Fully Assembled" Model



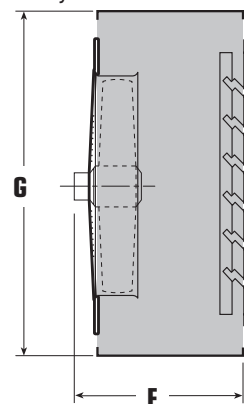
FADE A-TYPE

"Fan Only" Model



FADE A-TYPE

"Fully Assembled" Model



Model	A	B	C	D1	D2	E	F	G	Blade Type
FADE 8	12 ⁵ / ₁₆	2	10 ¹ / ₄	7 ³ / ₄	8 ¹ / ₁₆	1/ ₄	—	—	S
FADE 10	14 ⁹ / ₁₆	2	12 ⁵ / ₈	10	10 ⁵ / ₁₆	1/ ₄	—	—	S
FADE 12	17	3	15	12	12 ⁷ / ₈	5/ ₁₆	21	15 ¹ / ₂	S
FADE 14	19 ³ / ₁₆	3 ¹ / ₈	17 ¹ / ₈	14	15 ³ / ₈	5/ ₁₆	21	15 ¹ / ₂	S
FADE 16	22 ³ / ₄	3 ¹ / ₂	21	16 ¹ / ₂	17 ¹ / ₄	3/ ₈	24	16 ¹ / ₂	S
FADE 18	22 ⁹ / ₁₆	4 ¹ / ₄	21	18	18 ¹ / ₂	3/ ₈	24	16 ¹ / ₂	A
FADE 20-6	25 ³ / ₁₆	4 ¹ / ₂	24 ¹ / ₄	20	20 ¹ / ₂	3/ ₈	26	17 ¹ / ₂	A
FADE 20-4	25 ³ / ₁₆	4 ¹ / ₂	24 ¹ / ₄	20	20 ¹ / ₂	3/ ₈	26	17 ¹ / ₂	A
FADE 22	28 ⁵ / ₈	5 ¹ / ₄	26 ⁹ / ₁₆	22	22 ¹ / ₂	3/ ₈	32	18 ³ / ₄	A
FADE 25	31 ³ / ₄	6	29 ¹ / ₂	25	25 ¹ / ₂	3/ ₈	32	18 ³ / ₄	A

All dimensions in inches. FADE 12 through FADE 25 Fans can be ordered fully assembled with housing and damper. See Fantech Price List for detailed descriptions and model numbers.

Wiring

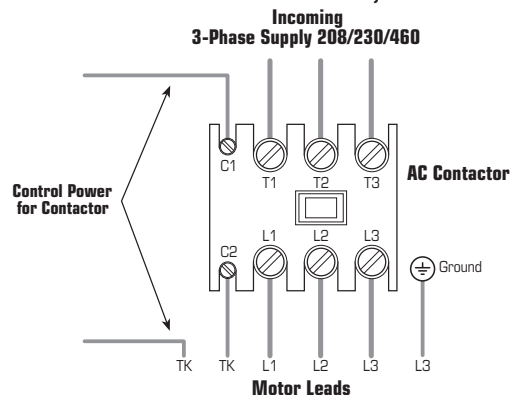
SPECIAL WIRING PRECAUTIONS:

All installation should be wired according to the following diagrams. Failure to comply will cause the motor to "hum" or not work.

All units are pre-wired, just bring incoming supply into marked ports on terminal strip. (EXCEPT FOR 3 PHASE UNITS, please use a motor contactor & TK leads to prevent damage to motor). Maximum torque that can be applied to the terminal block screws is 0.79 Nm (7 lb-in).

<p>Models: FADE 8-4 115/230 Volt Single Phase Fans</p>	<p>Models: FADE 10-4, 12-4, 14-4, 16-4 120/230 Volt Single Phase Fans</p>
<p>Models: FADE 18-4, 20-4, 22-6, 25-6 115/230 Volt Single Phase Fans</p> <p>Wiring schematic for 4 lead motors, single phase</p> <p>Notes:</p> <ol style="list-style-type: none"> All leads are color coded as well as identified with an Alpha / Alpha or Alpha / Numeric code (i.e. TK or Z2). This code may be shown as a band on the wire or on a schematic on the motor hub. Colors should be verified against code band. If code band and color do not correspond to schematics above, wire according to the code on the band. Color of capacitor leads may be reversed. Fan operation will not be affected. 	<p>Models: FADE 20-4, 22-6, 25-6 460 Volt Three Phase Fans</p> <p>Important note: For 460 volt operation, Orange (W2), Red (U2) and Grey (V2) wires must be spliced together.</p> <p>Notes:</p> <ol style="list-style-type: none"> Contactor should be used. Control coil should be wired in series with motor thermal contacts (TK leads) as shown in diagram to provide thermal motor protection. All leads are color coded as well as identified with a band containing an Alpha/Alpha or Alpha/Numeric code (i.e. TK or Z2). Colors should be verified against code band. If code band and color do not correspond to schematics above, wire according to the code on the band.
<p>Models: FADE 20-4, 22-6, 25-6 230 Volt Three Phase Fans</p> <p>Notes:</p> <ol style="list-style-type: none"> Contactor should be used. Control coil should be wired in series with motor thermal contacts (TK leads) as shown in diagram to provide thermal motor protection. All leads are color coded as well as identified with a band containing an Alpha/Alpha or Alpha/Numeric code (i.e. TK or Z2). Colors should be verified against code band. If code band and color do not correspond to schematics above, wire according to the code on the band. 	<p>Models: FADE 20-6 115 Volt Single Phase Fans</p>

Contactor for 3-Phase Fans, 208-230/460v



Three (3) Year Warranty

This warranty supersedes all prior warranties

FANTECH, INC will repair or replace any part which has a factory defect in workmanship or material. Product may need to be returned to the FANTECH factory, together with a copy of the bill of sale and identified with RMA number.

THE FOLLOWING WARRANTIES DO NOT APPLY:

- a) To damages from shipping, either concealed or visible;
- b) To damages resulting from improper wiring or installation;
- c) To damages or failure caused by Acts of God, or resulting from improper consumer procedures such as
 - 1) improper maintenance,
 - 2) misuse, abuse, abnormal use, or accident and
 - 3) incorrect electrical voltage or current;
- d) To removal of, or any alteration to, the Fantech label, control number or date of manufacture;
- e) To any other warranty, expressed, implied or written, and to any consequential or incidental damages, loss of property, revenues, or profit or costs of removal, or reinstallation, for any breach of warranty.

WARRANTY VALIDATION

The end user must keep a copy of the Bill of Sale to verify purchase date. Valid proof of the date of installation may also serve as a verification of commencement of warranty period.

FANTECH RETURN POLICY

Claims for damages or shortages must be reported within ten (10) days of receipt of product(s). For any product(s) received damaged by the forwarding agent.

Limitation of Warranty and Liability

This warranty does not apply to any FANTECH INC. 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 product or parts. We will not approve for payment any repair not made by us or our authorized agent without prior written consent. The foregoing shall constitute our sole and exclusive warranty and our sole exclusive liability, and is in lieu of any other warranties, whether written, oral, implied or statutory. There are no warranties which extend beyond the description on the page hereof. In no event, whether as a result of breach of contract, or warranty or alleged negligence, defect incorrect advice or other causes, shall FANTECH be liable for special or consequential damages, including, but not limited to, loss of profits or revenue, loss of use of equipment or any other associated equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or claims of customers of purchase for such damages. FANTECH neither assumes or authorizes any person to assume for it any other liability in connection with the sale of product(s) or part(s). Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages so the above limitations and exclusions may not apply to you.

Warning

FANTECH, INC. products are designed and manufactured to provide reliable performance, but they are not guaranteed to be 100% free from defects. Even reliable products will experience occasional failures and this possibility should be recognized by the user. If these products are used in a life support ventilation system where failure could result in loss or injury, the user should provide adequate backup ventilation, supplementary natural ventilation, failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.



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THE FOLLOWING INSTRUCTIONS MUST BE FOLLOWED:

1. For product delivered by UPS:
 - a) Concealed Damages: Keep all cartons. Call UPS for an inspection and notify Fantech immediately.
 - b) Visible Damages: Save all cartons and file complaint directly with UPS.
2. For product delivered via a common carrier: File damaged goods claim directly with the freight company.
3. Shortages: Sign only for the total number of pieces received and call Fantech immediately.

FOR FACTORY RETURN

Product(s) returned without authorization will not be accepted. Fantech will not accept the return of any special, non-stock, obsolete or unsaleable product(s). Fantech may, at its option, accept return of saleable product(s) subject to a 25% restocking charge.

1. No product(s) will be accepted without a Return Materials Authorization (RMA) number. This number can be obtained by calling Fantech, Inc. at 800-747-1762. Please have Bill of Sale or proof of date of installation available.
2. RMA must be clearly marked on outside of carton or delivery will be refused. All product(s) must be returned freight prepaid.
3. Product(s) will be repaired/replaced and shipped back to buyer; no credit will be issued.
4. Any out of warranty product will be evaluated and buyer will be notified of cost; repair cost will be charged to customer; buyer will be responsible for return freight or product may be returned without action, to the buyer, freight collect. No credit will be issued.