

VOLDAM®

INSTALLATION AND WIRING INSTRUCTIONS

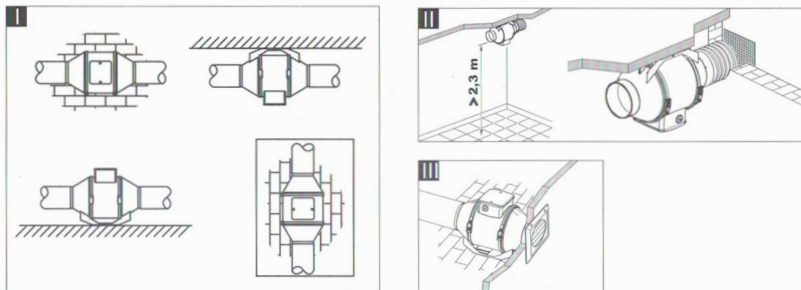
Mixed-Flow Ventilation Fan



**Model:VF-IC4 VF-IC5 VF-IC6
VF-IC8 VF-IC10 VF-IC12**

READ AND SAVE THESE INSTRUCTIONS

Figure 4.



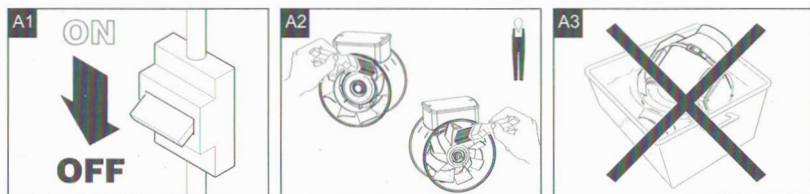
ELECTRICAL CONNECTION

All VF-IC series fans operate from a standard 220-240V 50Hz A.C electrical supply. All wiring must be carried out in accordance with National Electrical Code and all applicable state and local buildings codes. Electrical connections should be made in accordance with the following diagrams: **Figure (3) Electrical Wiring.**

MAINTENANCE

IMPORTANT : BEFORE CARRYING OUT ANY MAINTENANCE OR SERVICING , ENSURE THE UNIT IS DISCONNECTED FROM THE MAIN ELECTRICAL SUPPLY.

All VF-IC series exhaust fans incorporate sealed for life bearings and therefore do not require any lubrication . We would recommend inspection of the product at least once every twelve (12) months to avoid the excessive accumulation of dust and dirt on the impeller. To inspect the unit disconnect from electrical supply and remove from ducting. If any debris is evident on the impeller clean with a damp (not wet) cloth. **DO NOT USE** any detergents or abrasive materials for cleaning.



- (b) Before servicing or cleaning the unit, switch the power off at the 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 a tag to the service panel.
- (c) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes & 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 manufacturers guideline and safety standards such as those published by the National Fire Protection Association (NFPA) and For Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
- (e) When cutting or drilling into wall or 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 a shower, it must be marked as appropriate for the application and 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.
- (i) **CAUTION: For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors.**
- (j) **CAUTION: MOUNT WITH THE LOWEST MOVING PARTS AT LEAST 2.3 M ABOVE THE FLOOR OR GRADE LEVEL.**
- (k) All units are suitable for use with solid-state speed control.

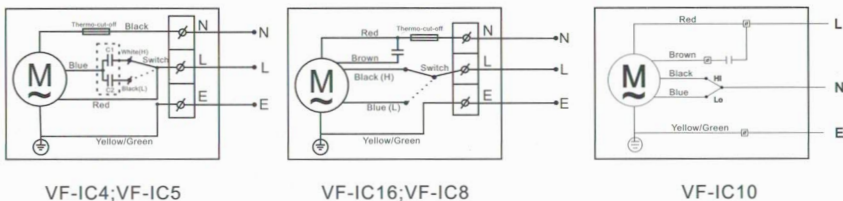
The VF-IC series can be mounted in any orientation, horizontal or vertical, and is suitable for numerous types of applications. See **Figure(4)** Illustration of some typical applications. If the installation is made to rigid or flexible ducting, then we would recommend the correct diameter ducting is used to couple to the fan flanges. If it is necessary to bend the duct at the discharge of the fan, then the bend radius should be as large as possible.

Before installing the product check the following points: (1) the fan impeller turns freely and (2) there are no obstructions to the airflow.

All models include a robust mounting bracket which enables easy and quick installation of the fan.

Ductwork connection should be made with duct tape or duct fast-clamps (available through your local distributor) to ensure a good seal and secure connection.

Figure 3. Electrical Wiring :



IMPORTANT

ALL VF-IC PRODUCTS INCORPORATE TWO SPEED
(220-240VAC 50Hz) MOTORS.

VF-IC SERIES

The VF-IC mixed flow range of in-line duct exhaust fans have been manufactured in accordance with the rigorous standards of production as defined by the International Quality Standards ISO 9001. All the components have been checked and tested at the end of the manufacturing process.

We recommend that you check the following after receiving this product:

1. The correct size has been received
2. The correct model has been received
3. The details on the rating label correspond to the electrical supply: voltage, frequency etc.

Remove the unit from packaging and inspect for shipping damage within 15 days of receipt. If the product is found to be damaged, immediately contact your local authorized supplier. **DO NOT OPERATE THE UNIT IF DAMAGED.**

ENVIRONMENT

The VF-IC series of fans are suitable for operation within indoor environments only, The VF-IC units are suitable for the exhaust or supply of both conditioned and un-conditioned airstreams within the temperature ranges (inclusive of duct airstream's temperature) of -10°C up to +40°C.

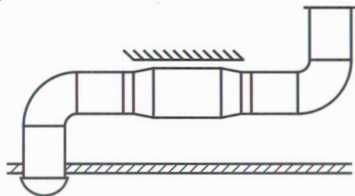
INSTALLATION

WARNING: TO REDUCE THE RISK OF FIRE OR 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 the manufacturer.

Figure 1. Typical Applications: VF-IC SERIES.

- Single Point Exhaust System



- Multi-Point Exhaust System

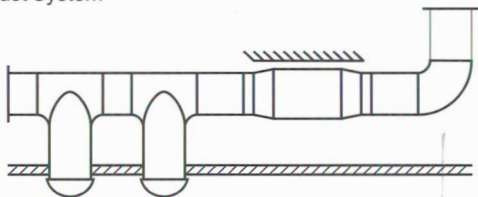


Figure 2. Installing:

1. To install the VF-IC models the fan motor wheel assembly must first be removed. Loosen the two spring clips around the casing and remove.
2. Secure the mounting bracket fan flange assembly to a fixed structure.
3. Replace the fan motor wheel assembly and tighten the two spring clips to secure the product.

