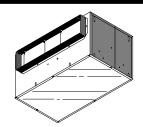


IN-LINE VENTILATORS



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READ AND SAVE THESE INSTRUCTIONS

WARNING





TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR IN-JURY TO PERSONS, OBSERVE THE FOLLOWING:

- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.
- Before 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 a tag, to the service panel.
- Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- 4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. 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 for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- 6. Ducted fans must always be vented to the outdoors.
- 7. To reduce the risk of fire, use only metal ductwork.
- 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 Interrupter) - protected branch circuit.
- Never place a switch where it can be reached from a tub or shower.
- 10. This unit must be grounded.

CAUTION



- For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
- Please read specification label on product for further information and requirements.

TABLE OF CONTENTS

This manual is divided into sections as follows:

"TYPICAL INSTALLATION"

This section shows a common installation in new and existing, frame construction.

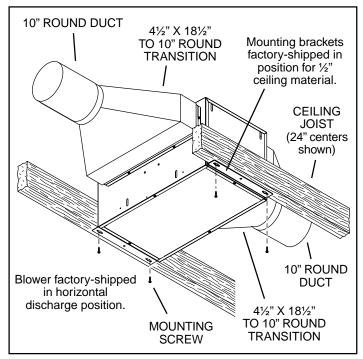
- Mounting (new construction)
- Mounting (existing construction)
- Wiring
- Ducting (straight-through blower discharge)
- "MOUNTING OPTIONS"
- "WIRING OPTIONS"
 - -Wiring Plate Position
- "DUCTING OPTIONS"
 - Blower Discharge Positions
 - Ducting (right angle blower discharge)
- "USE AND CARE"
- "SERVICE PARTS"
- "WARRANTY"



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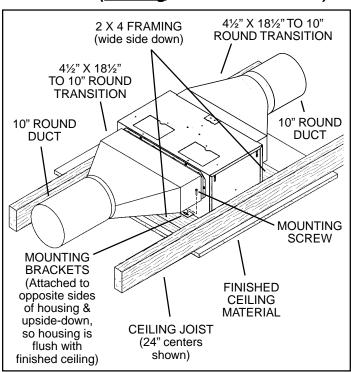
TYPICAL INSTALLATION

MOUNTING (New Frame Construction)



Factory-shipped unit installed in <u>new</u> construction.

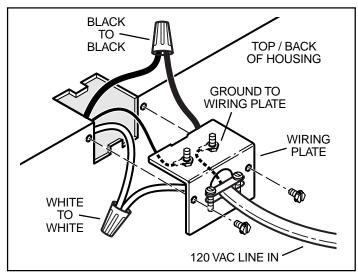
MOUNTING (Existing Frame Construction)



Factory-shipped unit installed in existing construction.

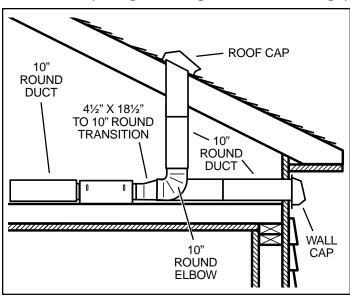
TYPICAL INSTALLATION

WIRING



Ventilator can be wired from outside of housing. Use UL approved connectors to wire per local codes.

DUCTING (Straight-through blower discharge)



Two ways to connect ductwork to a factory-shipped unit.

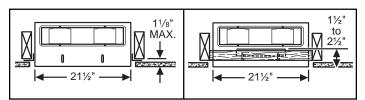
NOTE: Make sure the shipping tape is removed from the damper flap and that damper flap opens and closes freely inside the ductwork. Use duct tape to make ductwork connections secure and air-tight.



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MOUNTING OPTIONS

¼-20 hex nuts secure mounting brackets to housing. Loosen and re-tighten or remove and replace nuts as necessary for desired mounting bracket position.

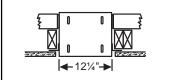


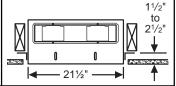
Mounting brackets in factory-shipped position.
(Outlet parallel to joists.)
(New construction)

Mounting brackets flipped over and mounted to outlet sides of housing.

(Outlet parallel to joists.)

(Existing construction)



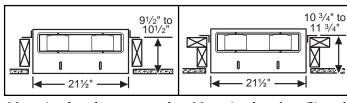


Mounting brackets mounted to outlet sides of housing. (Outlet perpendicular to joists.) (New construction)

Mounting brackets flipped over to give approx. I" more clearance.

(Outlet parallel to joists.)

(New construction)



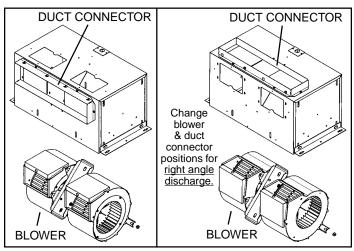
Mounting brackets mounted to top of sides of housing.
(Outlet parallel to joists.)
(New or existing construction)

Mounting brackets flipped over and mounted to top of sides of housing.

(Outlet parallel to joists.)
(New or existing construction)

DUCTING OPTIONS

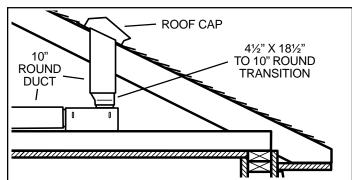
BLOWER DISCHARGE POSITIONS



Blower and duct connector in <u>straight-through dis-</u> <u>charge</u> position. (Factory shipped)

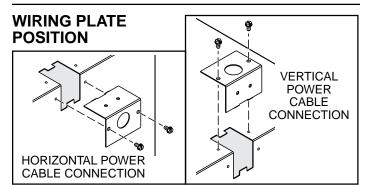
Blower and duct connector in <u>right angle discharge</u> position.

DUCTING (Right angle blower discharge)



Typical ductwork connection to a ventilator converted to right angle discharge.

WIRING OPTIONS



Wiring plate mounts to side or top of housing.

USE AND CARE

Ventilator is designed for continuous operation. If desired, it may be controlled using an on/off switch or a solid-state, variable speed control. Follow wiring instructions packed with control, and adhere to all local and state codes, and the National Electrical Code.



WARNING: To reduce the risk of electric shock, disconnect from power supply before servicing.

To clean blower assembly: Remove access panel, unplug blower from housing, remove blower mounting nuts, and carefully remove blower from housing. Use appropriate vacuum attachment or a soft cloth and mild soap or detergent to clean blower discharge area and wheel. DO NOT ALLOW WATER TO ENTER MOTOR. Make sure blower assembly is completely dry before reinstalling.

Motor is permanently lubricated. Do not oil or disassemble motor.



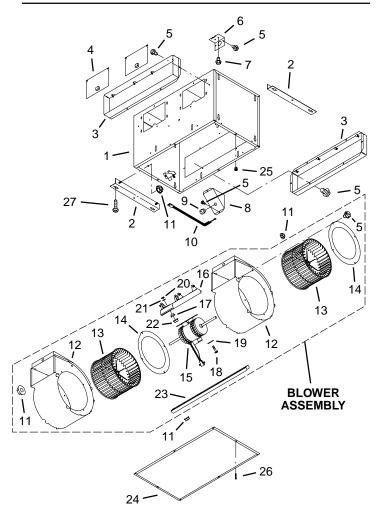
SERVICE PARTS

KEY NO. PART NO. **DESCRIPTION** 97014744 97014728 Housing Assembly Mounting Bracket (2 req.) 2 3 Duct Connector (2 req.) Damper Flap Assembly (2 req.) Screw, 8-18 x ¼ (18 req.)* 98009449 4 5 97014822 99150415 6 7 Wiring Plate 98005512 99150471 Ground Screw, 10-32 x ½ (2 req.) 8 98005513 Wire Box Cover 9 99400035 Strain Relief Bushing 10 97006039 Wire Harness Nut, ¼-20 (12 req.)* Scroll Assembly (2 req.) Blower Wheel, (2 req.) 99260477 11 12 97014745 13 99110805 Inlet Ring (2 req.) Motor (VCDD040I) Motor (VCDD050I) Motor (VCDD070I) 14 98009399 99080486 15 99080487 99080488 97014794 Motor Mounting Bracket 16 17 99100497 Rubber Isolator (4 req.) 99160380 Screw, 10-24 x 7/8 (4 req.)* 18 Washer (4 req.)* Nut, Hex 10-24 (4 req.)* Washer (4 req.)* Nut, Hex Flange 3/8-16 19 99250399 20 99260306 21 99250254 22 93260456 23 98009461 Scroll Mounting Channel Blower Assembly, Complete (Includes Key Nos. 5 & 11-23) 97014817 (VCDD040I) (VCDD050I) 97014819 97014821 (VCDD070I) 24 98009464 **Access Panel** 25 99420470 Access Panel Nut (4 req.) 26 99150472 Access Panel Mounting Screw (4 req.) 99150591 Screw, 10-16 x 7/8 (4 req.)

Order replacement parts by PART NO. - not by KEY NO.

SERVICE PARTS

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^{*} Standard hardware - may be purchased locally.