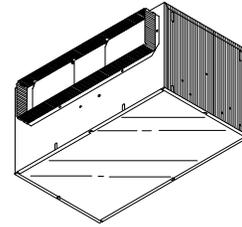


# IN-LINE VENTILATORS • 120V



## READ AND SAVE THESE INSTRUCTIONS

### WARNING

**TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

1. 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.
2. 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.
3. 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.
5. 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.
8. 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.
9. Never place a switch where it can be reached from a tub or shower.
10. This unit must be grounded.

### CAUTION

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
3. **If ventilator is installed in an unconditioned space (such as an attic):** Surround the ventilator with thermal insulation - to minimize possible condensation.
4. Please read specification label on product for further information and requirements.

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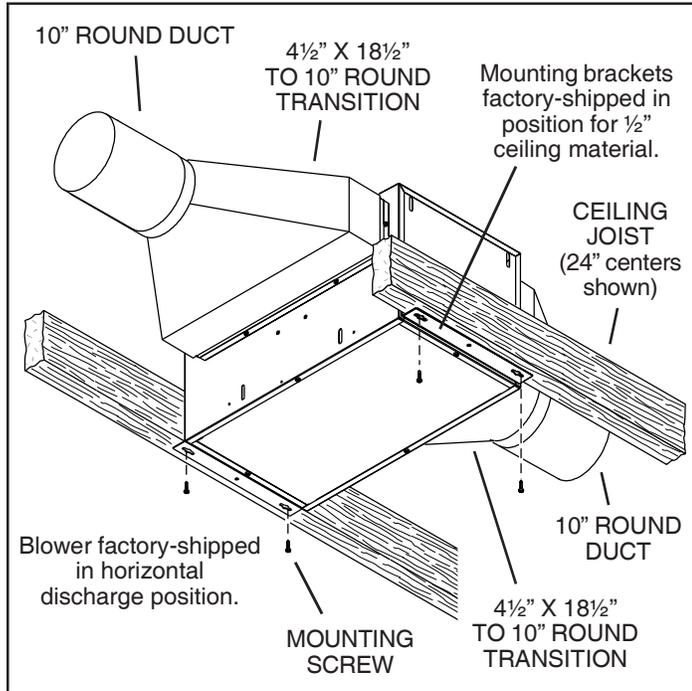
This manual is divided into sections as follows:

- **“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”**

**Installer: Leave this manual with the homeowner.**  
**Homeowner: Use and Care information on page 3.**

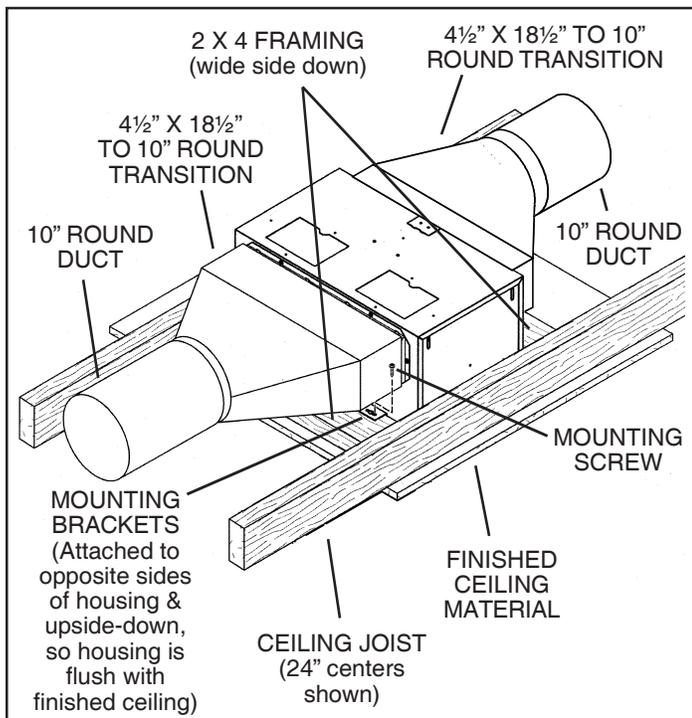
## TYPICAL INSTALLATION

### MOUNTING (New Frame Construction)



*Factory-shipped unit installed in new construction.*

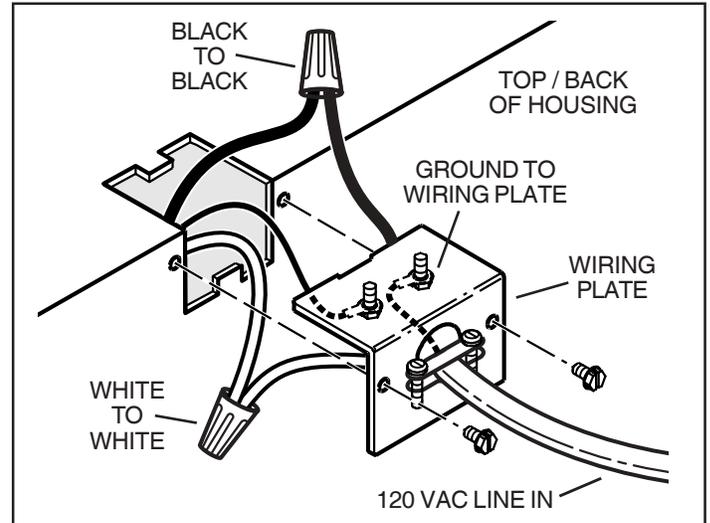
### MOUNTING (Existing Frame Construction)



*Factory-shipped unit installed in existing construction.*

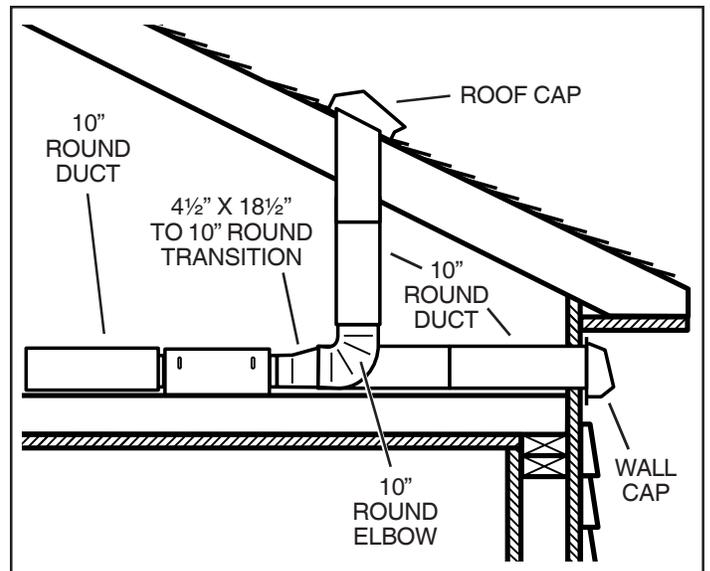
## TYPICAL INSTALLATION

### WIRING



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

### DUCTING (Straight-through blower discharge)

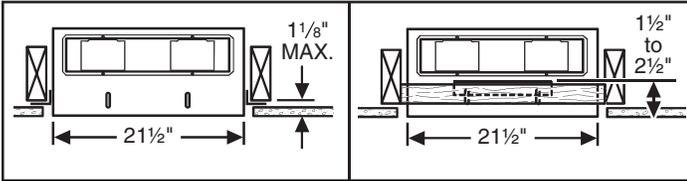


*Two ways to connect ductwork to a factory-shipped unit.*

**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.

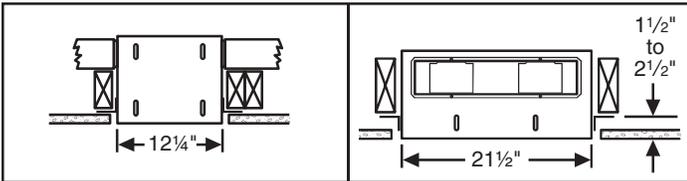
## MOUNTING OPTIONS

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.



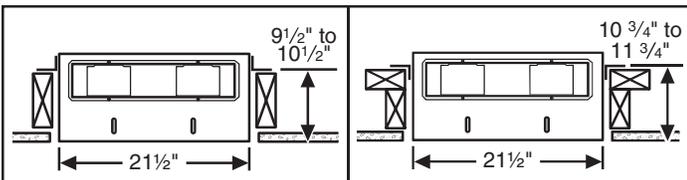
*Mounting brackets in factory-shipped position. (Outlet parallel to joists.) (New construction)*

*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. 1" more clearance. (Outlet parallel to joists.) (New construction)*

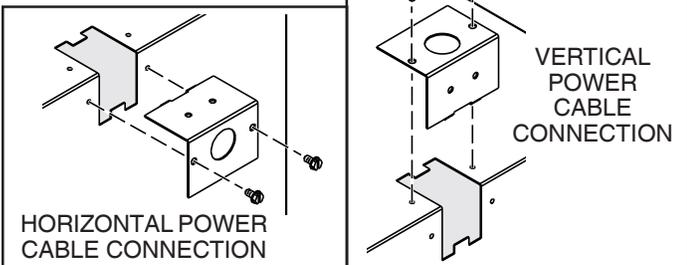


*Mounting brackets mounted to top of sides of housing. (Outlet parallel to joists.) (New or existing construction)*

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

## WIRING OPTIONS

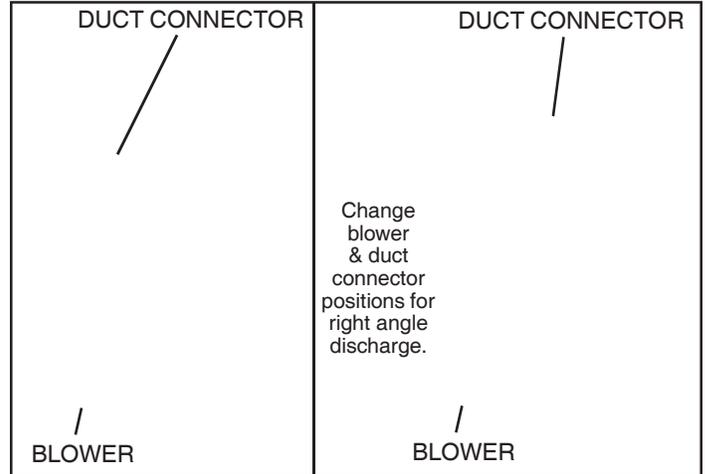
### WIRING PLATE POSITION



*Wiring plate mounts to side or top of housing.*

## DUCTING OPTIONS

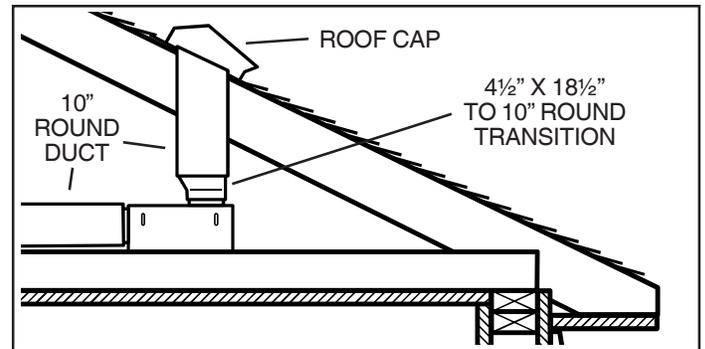
### BLOWER DISCHARGE POSITIONS



*Blower and duct connector in straight-through discharge position. (Factory shipped)*

*Blower and duct connector in right angle discharge position.*

### DUCTING (Right angle blower discharge)



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

## 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.

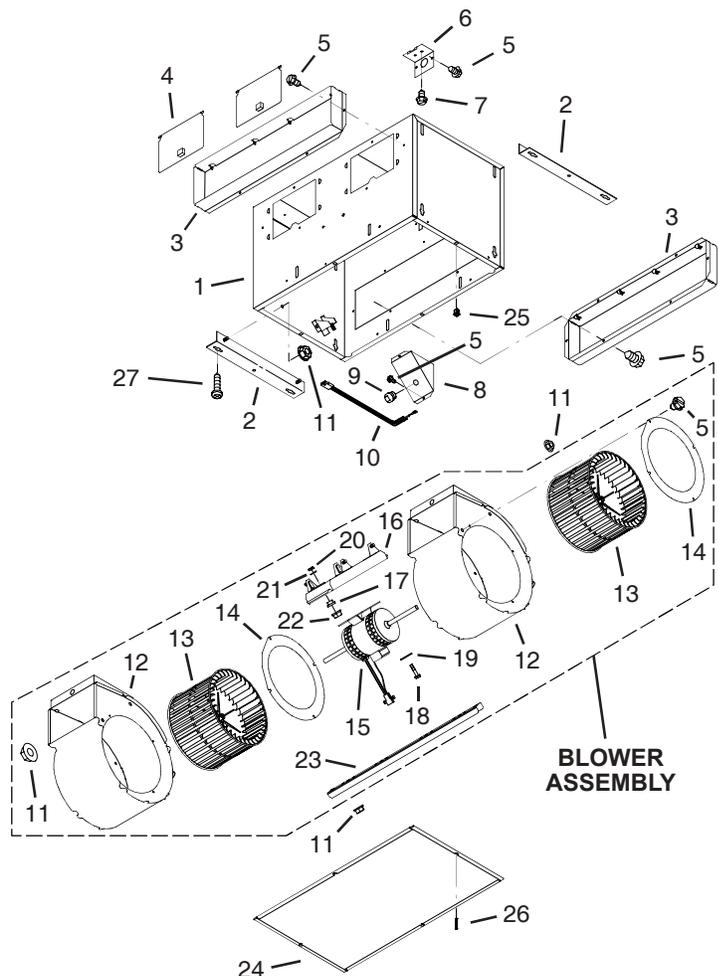
Motor is permanently lubricated. Do not oil or disassemble motor.

**SERVICE PARTS**

KEY NO.	PART NO.	DESCRIPTION
1	97014744	Housing Assembly
2	97014728	Mounting Bracket (2 req.)
3	98009449	Duct Connector (2 req.)
4	97014822	Damper Flap Assembly (2 req.)
5	99150415	Screw, 8-18 x 1/4 (18 req.)*
6	98005512	Wiring Plate
7	99150471	Ground Screw, 10-32 x 1/2 (2 req.)
8	98005513	Wire Box Cover
9	99400035	Strain Relief Bushing
10	97006039	Wire Harness
11	99260477	Nut, 1/4-20 (12 req.)*
12	97014745	Scroll Assembly (2 req.)
13	99110805	Blower Wheel, (2 req.)
14	98009399	Inlet Ring (2 req.)
15	99080486	Motor (FFC400)
	99080487	Motor (FFC500)
	99080488	Motor (FFC700)
16	97014794	Motor Mounting Bracket
17	99100497	Rubber Isolator (4 req.)
18	99160380	Screw, 10-24 x 7/8 (4 req.)*
19	99250399	Washer (4 req.)*
20	99260306	Nut, Hex 10-24 (4 req.)*
21	99250254	Washer (4 req.)*
22	93260456	Nut, Hex Flange 3/8-16
23	98009461	Scroll Mounting Channel
---	-----	Blower Assembly, Complete (Includes Key Nos. 5 & 11-23)
	97014817	(FFC400)
	97014819	(FFC500)
	97014821	(FFC700)
24	98009464	Access Panel
25	99420470	Access Panel Nut (4 req.)
26	99150472	Access Panel Mounting Screw (4 req.)
27	99150591	Screw, 10-16 x 7/8 (4 req.)

Order replacement parts by PART NO. - not by KEY NO.  
\* Standard hardware - may be purchased locally.

**SERVICE PARTS**



**WARRANTY**

**ONE YEAR LIMITED WARRANTY**

Soler & Palau Breidert Air Products JencoFan, warrants all products to be free from defects in material or workmanship for a period of one year from date of shipment. If it appears within one year from date of shipment by the Company to the original purchaser that any such ventilator or the material used therein does not meet the warranties specified above and the purchaser notifies the Company promptly, the Company agrees to remedy any such defect, at the company's option.

This warranty shall not apply to any equipment which has been repaired or altered in any way so as, in the company's judgement, to affect its performance or reliability, nor which has been improperly installed or subjected to misuse, negligence, or accident. Neither shall this warranty apply to labor to remove or install defective parts, profits lost due to failure of the ventilator or electric motors or belts. Electric motors, however, carry the warranty of the motor manufacturer.

This warranty is expressly in lieu of all other warranties expressed or implied, and of all other obligations or liabilities on the company's part. The company neither assumes, nor authorizes any representative or other persons to assume for it, any other liability in connection with the sale of its equipment.

Soler & Palau  
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