# MODEL HLB3 IN-LINE BLOWER



For use with Broan Elite and NuTone Premier Hoods.

# **READ AND SAVE THESE INSTRUCTIONS**

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#### TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR IN-JURY 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.
- 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.
- 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.

#### TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

- A. Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- B. Always turn hood ON when cooking at high heat or when flambeing food (i.e. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambe').
- C. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
- D. Use proper pan size. Always use cookware appropriate for the size of the surface element.

#### TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOW-ING:\*

- 1. SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
- 2. NEVER PICK UP A FLAMING PAN You may be burned.
- 3. DO NOT USE WATER, including wet dishcloths or towels violent steam explosion will result.

- 4. Use an extinguisher ONLY if:
- A. You know you have a Class ABC extinguisher and you already know how to operate it.
- B. The fire is small and contained in the area where it started.
- C. The fire department is being called.
- D. You can fight the fire with your back to an exit.
- \* Based on "Kitchen Fire Safety Tips" published by NFPA.

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- 1. 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.
- 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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### Installer: Leave this manual with the homeowner. Homeowner: Use and Care information on page 4.

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### **TYPICAL INSTALLATION**

#### MOUNTING (New Frame Construction)



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

### MOUNTING (Existing Frame Construction)



Blower factory-shipped in straight-through discharge position.

#### IMPORTANT: *Remove shipping tape from damper*

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

#### Remove shipping ring from blower inlet

Remove the shipping ring from the blower inlet <u>before</u> operating the ventilator.

### **TYPICAL INSTALLATION**

#### MOUNTING USING HANGER KIT (included)



Blower factory-shipped in straight-through discharge position.

#### DUCTING (Horizontal blower discharge)



<u>Two</u> ways to connect ductwork to a factory-shipped unit.

#### WIRING



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

## **MOUNTING OPTIONS**

1/4-20 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.) (<u>New</u> construction)

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Mounting brackets flipped
over and mounted to
outlet sides of housing.
(Outlet parallel to joists.)
(Existing construction)
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Mounting brackets mounted to outlet sides of housing. (Outlet perpendicular to joists.) (New construction)



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



- 12¼" -

Mounting brackets flipped over to give approx. 1" more clearance. (Outlet parallel to joists.) (New 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 <u>straight through</u> <u>discharge</u> position. (Factory shipped)

Blower and duct connector in <u>right angle dis-</u> <u>charge</u> position.





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

### **USE AND CARE**

Follow wiring instructions packed with range hood, 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.

### SERVICE PARTS

KEY NO.	PART NO.	DESCRIPTION
1	97014735	Housing Assembly
	97014736	Housing Assembly
2	97014728	Mounting Bracket (2 req.)
3	97014761	Damper Assembly (8" dia.)
4	99390099	Duct Connector (8" dia.)
5	99150415	Screw, 8-18 x ¼ (12 req.)*
2 3 4 5 6 7	98005513	Wire Box Cover
7	99400035	Strain Relief Bushing
8	98005512	Wiring Plate
	99150471	Ground Screw, 10-32 x ½ (2 req.)
10	97014775	Scroll Assembly
11	98009399	Inlet Ring
12	99020273	Blower Wheel
13	99080485	Motor
14	99260558	Lock Nut, 8-32 (4 req.)*
15	99250959	Washer (4 req.)*
16	99100491	Grommet (4 req.)
+	97016792	Blower Assembly, Complete
17	99260477	(Includes Key Nos. 5 & 10-17)
17	99260477 97006039	Nut, ¼-20 (6 req.)* Wire Harness
	98009417	Access Panel
19		
20	99420470	Cover Nut (2 req.)
21 22	99150472 99150591	Cover Mounting Screw (2 req.)
22	97016791	Screw, 10-16 x 7/8 (4 req.)*
23 24	S414	Hanger Kit Transition 8-10" Round
24	0414	

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

+ Not shown assembled.

**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.

