Viking Installation Guide

NOTE: IF INSTALLING HOOD WITH WARMING SHELF PANEL, INSTALL WARMING SHELF PANEL FIRST.

IMPORTANT - PLEASE READ AND SAVE THESE INSTRUCTIONS

- •Before beginning, please read these instructions completely and carefully.
- •Do not remove permanently affixed labels, warnings, or plates from the product. This may void the warranty.
- Please observe all local and national codes and ordinances. If no local codes are applicable, wire in accordance with the National Electrical Code, ANSI/NFPA 70-1990.
- Outdoor approved models should be installed in a covered nonenclosed area and should be protected from the elements as much as possible.
- The installer should leave these instructions with the consumer who should retain for local inspector's use and for future reference.
- •Check with a qualified and trained installer or local codes for makeup air requirement, if any.

This hood is for residential installation only and is not designed for installation over a commercial product. Make sure power is off at the main circuit breaker or fuse box before making connections. To avoid risk of fire, electric shock, or injury to persons, turn off the electricity to the hood from the power supply before servicing or cleaning.

Viking Range hoods are equipped with variable speed controls for blowers. These units will not function with a single speed ventilator. All Viking Range ventilator kits are designed specifically for use with Viking Range hoods. Use of any non-Viking Range ventilator kit will void the hood warranty.

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

- Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock service panel 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.

IMPORTANT SERVICE INSTRUCTOINS -CAUTION-

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

CAUTION

TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY TO PERSONS, RANGEHOODS MUST BE INSTALLED WITH THE VENTILATORS THAT ARE SPECIFIED ON THEIR CARTON INDICATING SUITABILITY WITH THIS MODEL. OTHER VENTILATORS CANNOT BE SUBSTITUTED.

WARNING

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

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- 2. 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 for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- 3. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- 4. Ducted fans must always be vented to the outdoors.
- 5. **WARNING!:** To reduce the risk of fire, use only metal ductwork.
- 6. **CAUTION!:** To reduce risk of fire and to properly exhaust air, be sure to duct air outside. Do not vent exhaust air into spaces within walls or ceilings, or into attics, crawl spaces, or garages.

WARNING - TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGETOP GREASE FIRE, OBSERVE THE FOLLOWING:

(based on "Kitchen Firesafety Tips" published by NFPA)

- SMOTHER FLAMES with a close-fitted 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.
- NEVER PICK UP A FLAMING PAN. You may be burned.
- 3. DO NOT USE WATER, including wet dishcloths or towels a violent steam explosion will result.
- 4. Use an extinguisher ONLY if:
 - •You know you have a Class ABC extinguisher, and you already know how to operate it.
 - •The fire is small and contained in the area where it started.
 - •The fire department is being called.
 - •You can fight the fire with your back to an exit.

BASIC SPECIFICATIONS INTERIOR AND EXTERIOR POWER BUILT-IN WALL CUSTOM VENTILATOR SYSTEMS

DESCRIPTION	RECOM. CFM ¹	NUMBER OF HALOGEN LIGHTS	FILTERS	SPACERS	120VAC/60Hz MAX. AMPS ³ (Interior/Exterior)
30"W.	300 int./440 int. 900 ext./ 1200 ext.	2	2	1	1.7/3.2 6.6/ 3.9
36"W.	300 int./440 int. 900 ext./ 1200 ext.	2	2	1	1.7/3.2 6.6/ 3.9
42"W.	440 int./ 900 ext./ 1200 ext.	2	3	2	3.2 6.6/ 3.9
48"W.	880 int./ 1200 ext. 1500 ext.	2	3	2	5.6/ 4.3/ 5.1

INTERIOR AND EXTERIOR POWER BUILT-IN ISLAND CUSTOM VENTILATOR SYSTEMS

DESCRIPTION	RECOM. CFM ¹	NUMBER OF HALOGEN LIGHTS	FILTERS	SPACERS	120VAC/60Hz MAX. AMPS ³ (Interior/Exterior)
36"W.	440 int. 900 ext./1200 ext.	4	2	1	4.0/ 7.5/5.2
42"W.	440 int./ 900 ext./ 1200 ext./1500 ext.	4	2	2	4.0/ 7.5/ 5.2/ 6.0
54"W.	880 int./ 1200 ext./ 1500 ext.	4	3	2	6.4/ 5.2/ 6.0

		RECOMMENDED	MAX. DUCT
MODEL NUMBER	CFM ¹	DUCT SIZE	RUN ² (ft.)
For Use with hoods:			
DIV300 (interior)	300	7" round	50
DIV440 (interior)	440	7" round	50
DIV880 (interior)	880	10" round	50
DEV900 (exterior)	900	10" round*	50
DEV1200 (exterior)	1200	10" round	50
DEV1500 (exterior)	1500	10" round	75

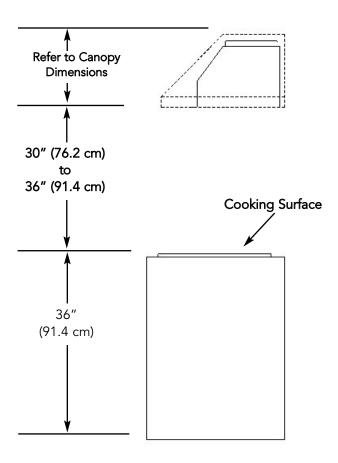
^{*}Must use 8" duct from canopy to ceiling - transition to 10" duct past duct cover

PROPER INSTALLATION/DUCTING IS EXTREMELY IMPORTANT TO ENSURE MAXIMUM PERFORMANCE FROM ANY VENTILATION PRODUCT

- 1. •All CFMs stated are based on tests at .1 static pressure: without applying static pressure, CFM would be greatly overstated.
- 2. •Duct run length is for general reference only; for longer duct runs, increase duct size and contact a qualified and trained installer.
 - •Straight runs and gradual turns are best; for example, each 90° elbow is equivalent to 5-10 feet (1.52 3.05 m) of straight run.
 - •Never use flexible duct; it creates back pressure/air turbulence and greatly reduces performance.
 - Proper performance is dependent upon proper ducting; make sure that a qualified and trained installer is used.
 - •Check with a qualified and trained installer or local codes for makeup air requirement, if any.
- 3. •Max. amp rating for hoods includes recommended ventilator kit rating; all products must be hard wired direct with 2-wire with ground.

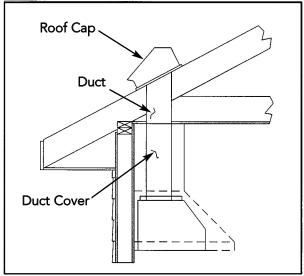
HEIGHT OF HOOD

The bottom of the hood should be 30" (76.2 cm) to 36" (91.4 cm) above the countertop. This would typically result in the bottom of the hood being 66" (167.6 cm) to 72" (182.9 cm) above the floor. For best performance, it is recommended that the bottom of the hood be 30" (76.2) to 33" (83.8 cm) above the countertop. These dimensions provide for safe and efficient operation of the hood.

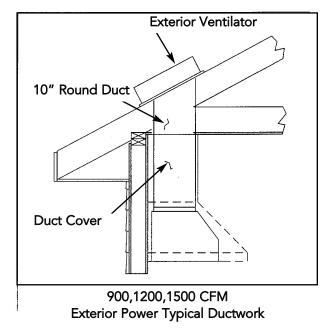


PREPARING FOR HOOD INSTALLATION

Plan where the ductwork will be located. See pages 12-13 for rough-in dimensions. Install proper-sized duct work, and roof or wall cap for the type of blower you are using. Adjust your measurements for various heights of ceilings, soffits, cabinets, or ranges/rangetops.



300 or 440 CFM (7" Round) 880 CFM (10" Round) Interior Power Typical Ductwork



ELECTRICAL SUPPLY

Run 120 VAC electrical power cable from service panel to installation location (see dimensions page for exact location). See "Basic Specifications" on page 15 for the maximum amp requirements.

INSTALLING HOOD CANOPY (DBCV/DICV Custom Ventilator Kits Only)

*For best results, center the unit over the burners of the cooking product (front to back; right to left).

Make sure the back wall of the custom hood canopy is flush with the cutout so the ventilator system may be mounted as shown below.

Custom Hood Canopy Cutouts В Custom Hood Canopy 1) Position ventilator system inside of the custom hood canopy and center it front to back and left to right. **Built-in Ventilator System** 2) Bottom mounting holes fasten ventilator system to bottom of custom hood canopy with the screws provided 3) OPTIONAL Rear mounting holes fasten ventilator system to rear of custom hood canopy

Wall Hoods

	А	В
30" W.	28 11/16" (72.9 cm)	16 1/2" (41.9 cm)
36" W.	34 11/16" (88.1 cm)	16 1/2" (41.9 cm)
42" W.	40 11/16" (103.4 cm)	16 1/2" (41.9 cm)
48" W.	46 11/16" (118.6 cm)	16 1/2" (41.9 cm)

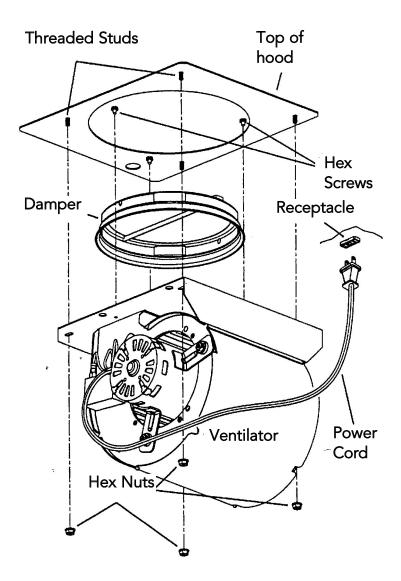
Island Hoods

	А	В
36" W.	34 11/16" (88.1 cm)	21 1/2" (54.6 cm)
42" W.	40 11/16" (103.4 cm)	21 1/2" (54.6 cm)
54" W.	52 11/16" (133.8 cm)	21 1/2" (54.6 cm)

VENTILATOR KIT INSTALLATION DIV300/DIV440

(Also see instructions supplied with ventilator kit)

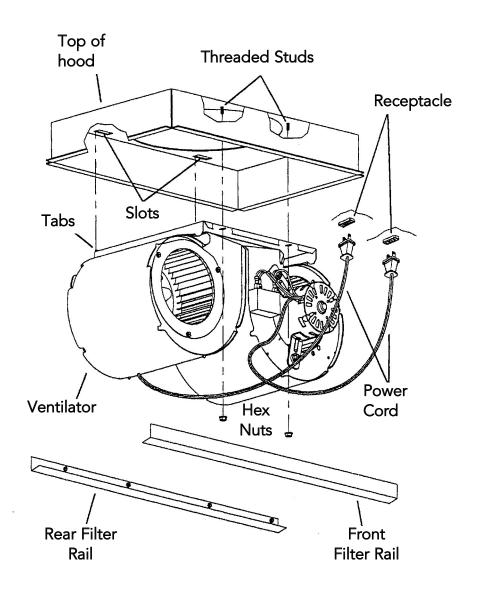
- 1. Attach DAMPER to VENTILATOR, as shown, using three (3) HEX SCREWS (provided). Note: Damper flange to be captured by screw heads.
- 2. Lift ventilator into position inside the hood.
- 3. Fasten ventilator to four (4) THREADED STUDS, using four (4) HEX NUTS (provided).
- 4. Plug ventilator's POWER CORD into RECEPTACLE inside the hood.
- 5. NOTE: This installation does not use the mounting plate and (4) additional hex nuts. They may be discarded.



VENTILATOR KIT INSTALLATION DiV880

(Also see instructions supplied with ventilator kit)

- 1. Remove front and rear filter rails from hood.
- 2. Lift ventilator into position inside the hood.
- 3. Engage (2) tabs on ventilator into (2) slots in top of hood.
- 4. Fasten ventilator to two (2) THREADED STUDS, using two (2) HEX NUTS (provided).
- 5. Plug ventilator's power cord into receptacle inside the hood.
- 6. Replace front and rear filter rails.



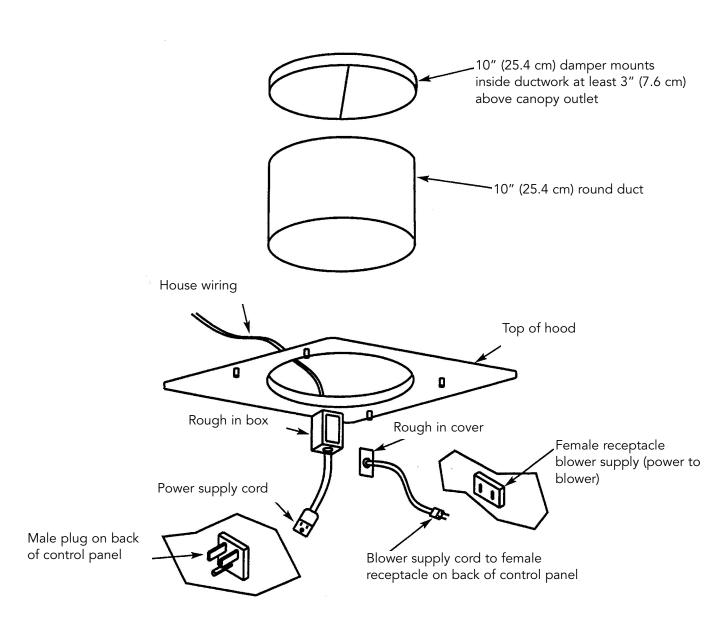
CONNECTING DUCTWORK -EXTERNAL POWER DEV900/DEV1200/dev1500

(Also see instructions supplied with ventilator kit)

- 1. Run 10" (25.4 cm) round steel ductwork from external blower to the installation location. For best performance, use the straightest possible duct run and the fewest number of elbows. Tape all joints.
- 2. Run 120 VAC electrical power cable from service panel and remote blower to installation location.
- 3. Remove wiring box cover. Feed 6" (15.2 cm) of power cable (from service and remote blower) through the openings. See illustration below.
- 4. Wire black to black, white to white, and green or bare (ground) to green ground screw (provided). Replace wiring box cover. Make sure to connect remote wires to 2-prong male cord and service to 3-prong female cord.
- 5. Connect duct work to top of hood (no transition required). Tape all joints.

Ventilator Kit Contents

Supply Cord with strain relief and rough in cover (1) $\#10 \times 1/2$ S.M.S Green grounding screw

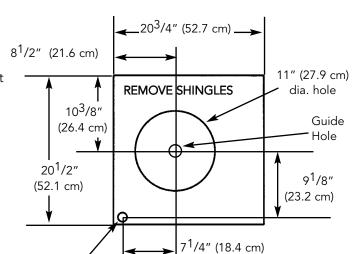


ROOF INSTALLATION EXTERIOR-POWER VENTILATOR

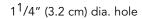
DEV900-Exterior Power Ventilator Kit (900CFM)

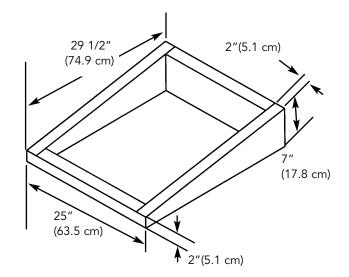
(also see instructions supplied with ventilator kit)

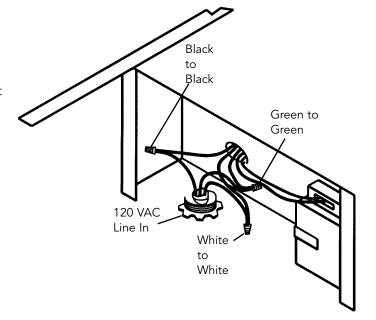
- Locate the blower on the rear slope of the roof. Place it in a location to minimize duct run. The location should be free of obstacles (T.V. leads, electrical lines, etc.). Bear in mind, if the blower top is level with the roof peak, it will not be seen from the street. Keep this approximate location in mind as you work from within the attic.
- 2. Mark a point halfway between rafters.
- 3. Drill a guide hole through the roof at this point.
- 4. From the outside, use the guide hole as a starting point.
 - A. Use a T-square to measure 8¹/2" (21.6 cm) to the <u>left</u> of the guide hole, then <u>down</u> 10³/8" (26.4 cm) to locate the bottom left corner of the layout.
 - B. Mark the rectangular cutout and <u>remove only the</u> <u>shingles</u> in this area.
- 5. Mark an 11" (27.9 cm) diameter circle centered on the guide hole and mark the center of the 1¹/4" (3.2 cm) diameter electrical wiring hole.
- 6. Cut out the roof board(s) along the 11" (27.9 cm) diameter circle and drill a $1^{1}/4$ " hole as marked.
- 7. For flat roof installations, build a curb that will mount the blower at a minimum pitch of 2/12. Discharge end of the blower should be pointed away from prevailing winds.
- Remove roofing nails from the upper two-thirds of the shingles around the cutout area. Carefully lift the shingles to allow the back flashing sheet on the blower housing to fit under them.
- 9. Center the blower ring in the 11" (27.9 cm) diameter hole, making sure that the 1¹/4" (3.2 cm) diameter electrical wiring hold aligns with the hole in the wiring box.
- 10. Attach the blower to the roof with the six screws provided. It is recommended that the screws be located inside the blower housing. All six holes in the back panel must be filled, or any moisture that may get inside the housing could leak into the house.
- 11. Using a good grade of roofing cement, seal all of the shingles around the housing and flashing sheet as well as the mounting screw heads.
- 12. Bring electrical wiring through the hole in the wiring box and secure it according to local codes.
- 13. Make the electrical connections with the proper connector for the type of wiring being used. Connect white to white, black to black, and the green or bare wire to green.
- 14. Replace wiring box cover and screws. Do not pinch wiring under the cover.
- 15. Check for free movement of the damper before installing housing cover and screws.
- 16. Turn on power and check operation of the blower.



ROOF CUTOUT







WALL INSTALLATION EXTERIOR-POWER VENTILATOR

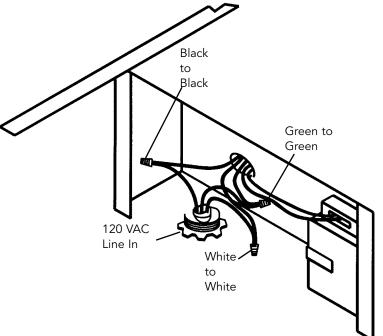
DEV900-Exterior-Power Ventilator Kit (900CFM)

- 1. Choose a position on the outside wall. Min. 24" (61.0 cm from ground may vary depending on local codes or location. Make sure that no wall studs, pipes or wires run through the opening area.
- 2. Drill a guide hole at the center of the opening area.
- 3. From the outside, use the guide hole as a starting point to lay out the installation.
 - A. Use a T-square to measure $10^{3}/4$ " (27.3 cm) to the left of the guide hole, then $12^{7}/8$ " (32.7 cm) to locate the top-left corner of the layout.
 - B. Starting from the top -left corner, mark a 25" (63.5 cm) by 28¹/2" (72.4 cm) rectangle on wall located from guide hole.
- 4. <u>Cut a rectangular hole in the siding only. Do not cut the sheathing.</u> Nail down all siding ends.
- 5. Mark an 11" (27.9 cm) diameter circle centered on the guide hole and mark the center of the 1¹/4" diameter electrical wiring hole.
- 6. Cut the 11" (27.9 cm) hole in the sheathing and drill the $1^{1}/4$ "(3.2 cm) as marked.
- 7. Place a large bead of caulk on the back side of the housing along the outer edge.
- 8. Center the blower ring in the 11" (27.9 cm) diameter hole, making sure that the 1¹/4" (3.2 cm) diameter electrical wiring hole aligns with the hole in the wiring box.
- 9. Attach blower to the wall with the six screws provided. It is recommended that the screws be located inside the blower housing. All six holes in the back panel must be filled, or any moisture that may get inside the housing could leak into the house.
- 10. Using a good grade of caulk, seal all around the mounting screw heads.
- 11. Bring electrical wiring through the hole in the wiring box and secure it according to local codes.
- 12. Make the electrical connections with the proper connector for the type of wire being used.

 Connect white to white, black to black, and green or bare wire to green.
- 13. Replace wiring box cover and screws. Do not pinch wiring under cover.
- 14. Check for free movement of the damper before installing housing cover and screws.
- 15. Turn on power and check operation of the blower.
- 16. Top and side flanges of the back plate may be covered with trim strips. Do not block grill opening at bottom with trim. It will adversely affect performance of the blower.

Dia. Hole

WALL CUTOUT

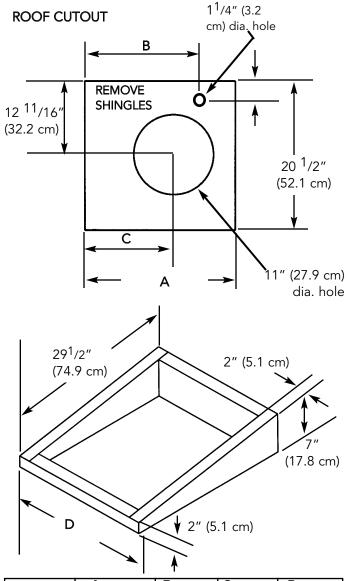


ROOF INSTALLATION EXTERIOR-POWER VENTILATOR

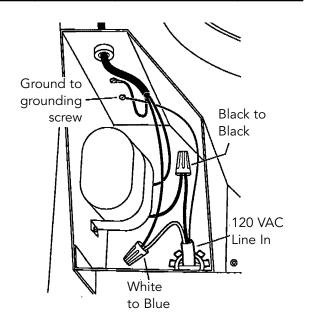
Exterior Power Ventilator

(also see instructions supplied with ventilator kit)

- 1. Locate the blower on the rear slope of the roof. Place it in a location to minimize duct run. The location should be free of obstacles (T.V. leads, electrical lines, etc.). Bear in mind, if the blower top is level with the roof peak, it will not be seen from the street. Keep this approximate location in mind as you work from within the attic.
- 2. Mark a point halfway between rafters.
- 3. Drill a guide hole through the roof at this point.
- 4. From the outside, use the guide hole as a starting point to lay out the installation.
 - A. Use a T-square to measure 9¹³/16" (24.9 cm) to the left of the guide hole, then 12¹¹/16" (32.2 cm) to locate the top-left corner of the layout.
 - B. Starting from the top-left corner, mark the rectangular cutout and <u>remove only the shingles</u> in this area.
- 5. Mark an 11" (27.9 cm) diameter hole centered on the guide hole. Mark the center of the 1¹/4" (3.2 cm) diameter electrical wiring hole.
- 6. Cut out the roof board(s) along the 11" (27.9 cm) diameter circle and drill a 1¹/4" hole as marked.
- 7. For flat roof installations, build a curb that will mount the blower at a minimum pitch of 2/12. Discharge end of the blower should be pointed away from prevailing winds.
- 8. Remove roofing nails from the shingles around the top and sides of the cutout area only. Carefully lift the shingles to allow the back flashing sheet on the blower housing to fit under them.
- 9. Center the blower ring in the 11" (27.9 cm) diameter hole, making sure that the 1 $\frac{1}{4}$ " (3.2 cm) diameter electrical wiring hold aligns with the hole in the wiring box.
- 10. Attach the blower to the roof with the six screws provided. It is recommended that the screws be located inside the blower housing. All six holes in the back panel must be filled, or any moisture that may get inside the housing could leak into the house.
- 11. Using a good grade of roofing cement, seal all of the shingles around the housing and flashing sheet as well as the mounting screw heads.
- 12. Bring electrical wiring through the hole in the wiring box and secure it according to local codes.
- 13. Make the electrical connections with the proper connector for the type of wiring being used. Connect white to white, black to black, and the green or bare wire to green.
- 14. Replace wiring box cover and screws. Do not pinch wiring under the cover.
- 15. Check for free movement of the damper before installing housing cover and screws.
- 16. Turn on power and check operation of the blower.



	Α	В	С	D
DEV1200	18"	15"	9 13/16'	22"
	(45.7 cm)	(38.1 cm)	(24.9 cm)	(55.9 cm)
DEV1500	21"	18"	12 5/8"	25"
	(53.3 cm)	(45.7 cm)	(32.1 cm)	(63.5 cm)
		1		



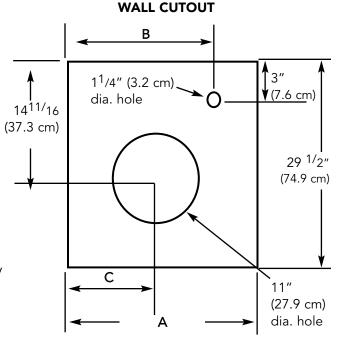
WALL INSTALLATION EXTERIOR-POWER VENTILATOR

Exterior Power Ventilator Kit

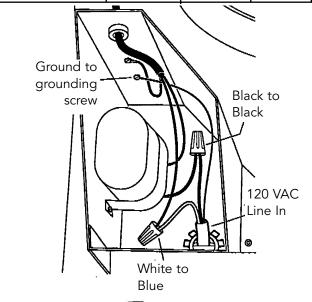
- 1. Choose a position on the outside wall. Min. 24" (61.0 cm from ground may vary depending on local codes or location. Make sure that no wall studs, pipes or wires run through the opening area.
- 2. From inside, mark and drill a guide hole at the center of the opening area.
- 3. From the outside, use the guide hole as a starting point to lay out the installation.
 - A. Use a T-square to measure 11¹³/16" (30.0 cm) to the left of the guide hole, then 14¹¹/16" (37.3 cm) to locate the top-left corner of the layout.
 - B. Starting from the top-left corner, mark a 22" (55.9 cm) by 29¹/2" (74.9 cm) rectangle on wall located from guide hole
- 4. <u>Cut a rectangular hole in the siding only.</u> <u>Do not cut the sheathing.</u> Nail down all siding ends.
- 5. Mark an 11" (27.9 cm) diameter circle centered on the guide hole and mark the center of the 1¹/4" diameter electrical wiring hole.
- 6. Cut the 11" (27.9 cm) hole in the sheathing and drill the $1^{1}/4$ "(3.2 cm) as marked.
- 7. Place a large bead of caulk on the back side of the housing along the outer edge.
- 8. Center the blower ring in the 11" (27.9 cm) diameter hole, making sure that the 1¹/4" (3.2 cm) diameter electrical wiring hole aligns with the hole in the wiring box.
- 9. Attach blower to the wall with the six screws provided. All six holes in the back panel must be filled, or any moisture that may get inside the housing could leak into the house.
- 10. Using a good grade of caulk, seal all around the mounting screw heads.
- 11. Bring electrical wiring through the hole in the wiring box and secure it according to local codes.
- 12. Make the electrical connections with the proper connector for the type of wire being used. Connect white to blue, black to black, and green or bare wire to grounding screw.
- 13. Replace wiring box cover and screws. Do not pinch wiring under cover.
- 14. Check for free movement of the damper before installing housing cover and screws.
- 15. Turn on power and check operation of the blower.
- 16. Top and side flanges of the back plate may be covered with trim strips. Do not block grill opening at bottom with trim. It will adversely affect performance of the blower.

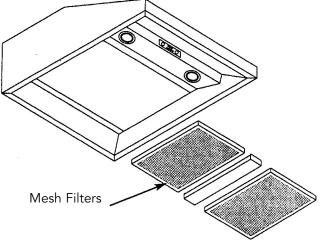
FILTER INSTALLATION

Number of mesh filters and spacers will vary by model. See page 17.

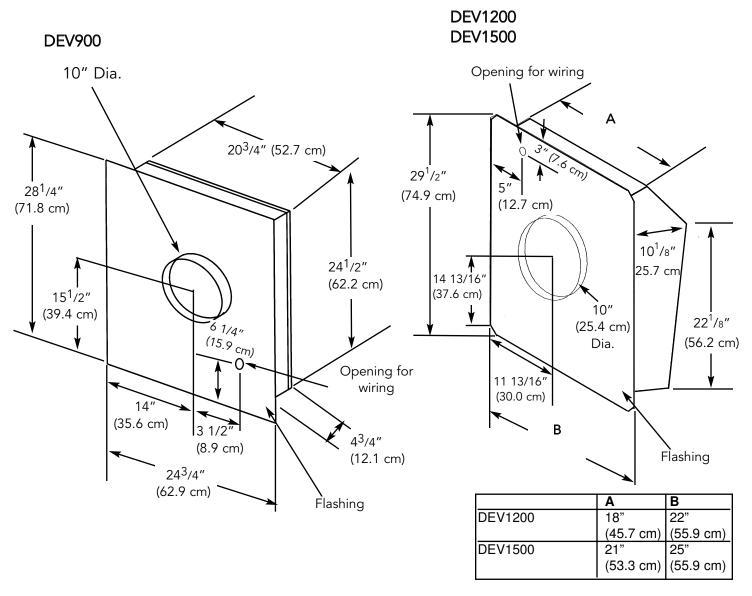


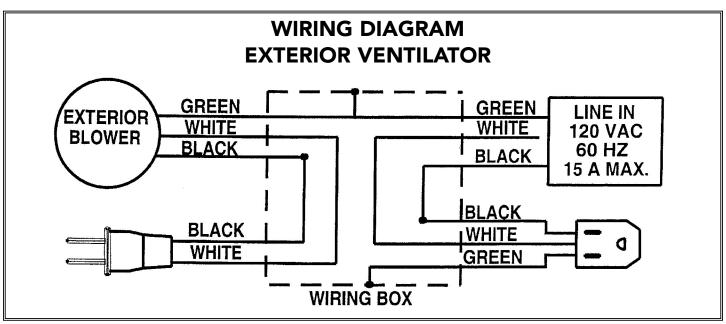
	Α	В	С
DEV1200	22"	17"	11 13/16"
	(55.9 cm)	(43.2 cm)	(30.0 cm)
DEV1500	25"	20"	14 5/8"
	(63.5 cm)	(50.8 cm)	(37.2 cm)



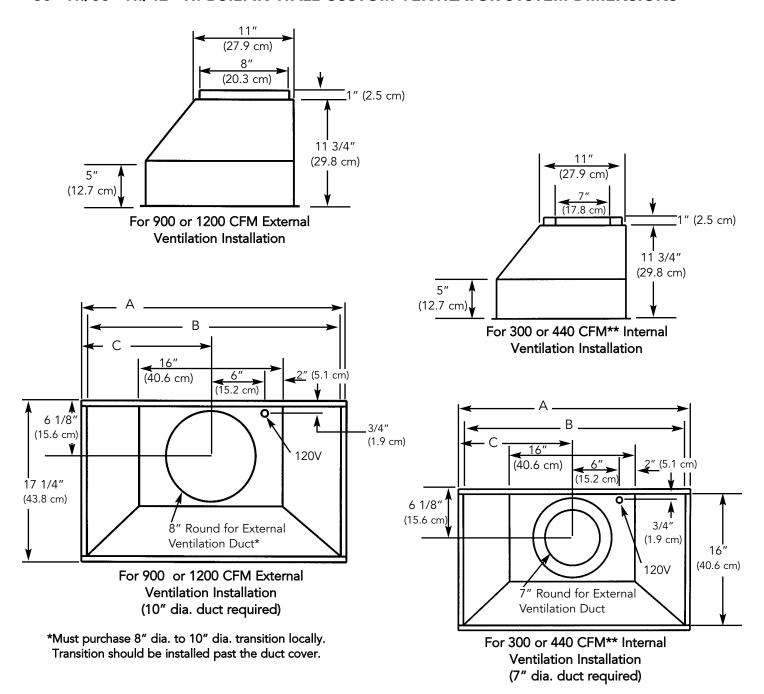


EXTERIOR VENTILATOR DIMENSIONS





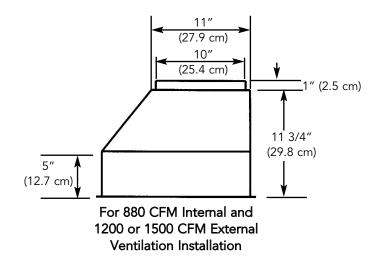
30" W./36" W./42" W. BUILT-IN WALL CUSTOM VENTILATOR SYSTEM DIMENSIONS

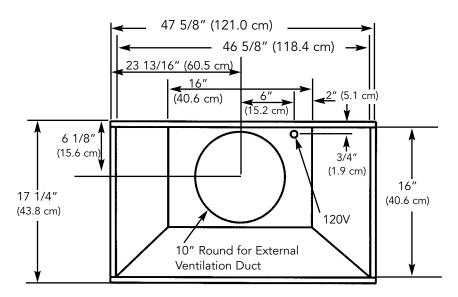


Dim.	30" W.	36" W.	42" W.
Α	29 5/8"	35 5/8"	41 5/8"
	(75.2 cm)	(90.5 cm)	(105.7 cm)
В	28 3/8"	34 3/8"	40 3/8"
	(72.1 cm)	(87.3 cm)	(102.6 cm)
С	14 13/16"	17 13/16′	20 13/16"
	(37.6 cm)	(45.2 cm)	(52.9 cm)

**300 CFM ventilator kit for installation with 30" W. and 36" W. hoods only.

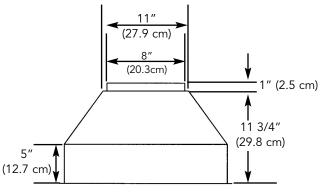
48" W. BUILT-IN WALL CUSTOM VENTILATOR SYSTEM DIMENSIONS



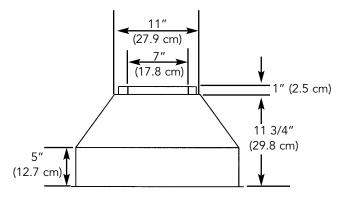


For 880 CFM Internal and 1200 or 1500 CFM External Ventilation Installation (10" dia. duct required)

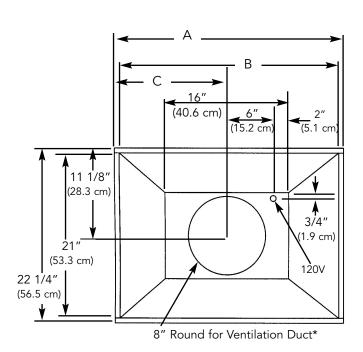
36" W./42" W. BUILT-IN ISLAND CUSTOM VENTILATOR SYSTEM DIMENSIONS



For 900, 1200, or 1500 CFM External**
Ventilation Installation

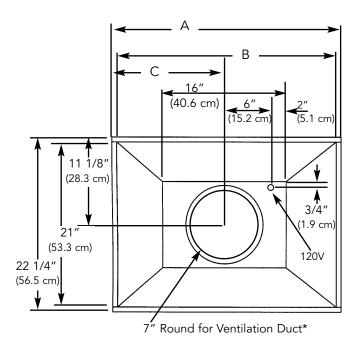


For 300 or 440 CFM** Internal Ventilation Installation



For 900, 1200, or 1500 CFM External**
Ventilation Installation
(10" dia. duct required)

*Must purchase 8" dia. to 10" dia. transition locally. Transition should be installed past the duct cover.



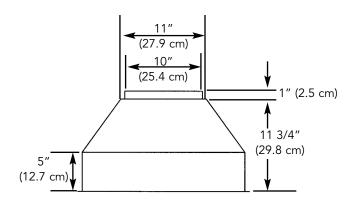
For 300*** or 440 CFM** Internal Ventilation Installation (7" dia. duct required)

Dim.	36" W.	42" W.
A 35 5/8"		41 5/8"
	(90.5 cm)	(105.7 cm)
В	34 5/8"	40 5/8"
	(87.9 cm)	(103.2 cm)
С	17 13/16′	20 13/16"
	(45.2 cm)	(52.9 cm)

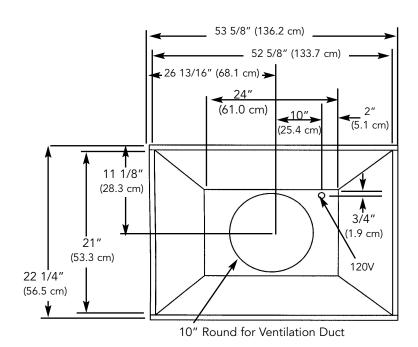
^{**1500} Ext. ventilator kit for installation with 42" W. Island hood only

^{***300} CFM ventilator kit for installation with 30" W. and 36" W. hoods only.

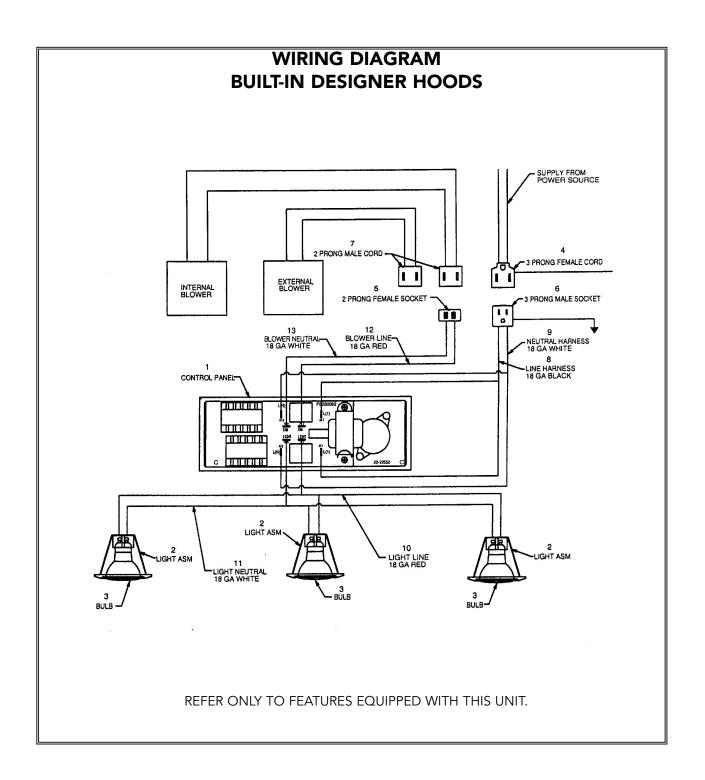
54" W. BUILT-IN ISLAND CUSTOM VENTILATOR SYSTEM DIMENSIONS



For 880 CFM Internal and 1200 or 1500 External Ventilation Installation



For 880 CFM Internal and 1200 or 1500 CFM External Ventilation Installation (10" dia. duct required)





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For more product information, call 1-888-VIKING1 (845-4641) or visit the Viking Web site at vikingrange.com

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