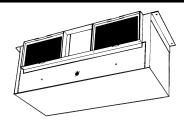


#### MODELS • VCDD210I • VCDD330I

Page 1

# IN-LINE CABINET VENTILATORS



# **READ AND SAVE THESE INSTRUCTIONS**

#### 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. This unit must be grounded.

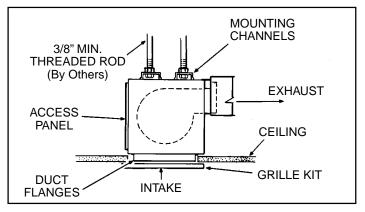
WARNING

## 

- 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. Please read specification label on product for further information and requirements.

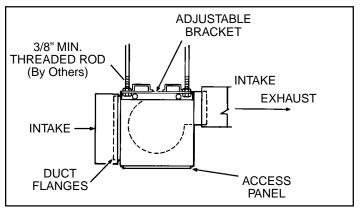
#### PLAN INSTALLATION

#### MOUNTING (*Right-angle Discharge*)



Factory shipped ready to be installed as a ceiling ventilator with right-angle discharge.

#### MOUNTING (In-line Configuration)



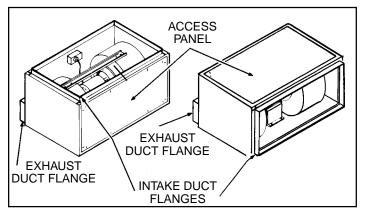
Converted for in-line applications.



Page 2

### PLAN INSTALLATION (cont.)

#### **CONVERTING FROM RIGHT-ANGLE TO IN-LINE**

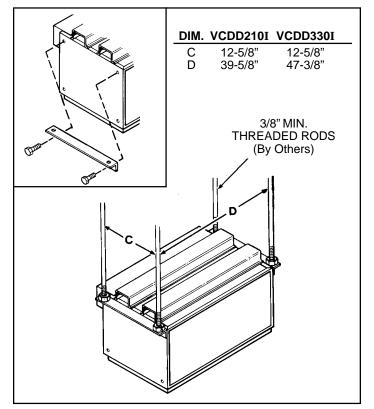


Remove and reverse duct flanges and access panel positions on housing.

For correct intake and exhaust duct size, see Table 1.

TABLE 1						
MODEL	INTAKE DUCT SIZE	EXHAUST DUCT SIZE				
VCDD210I	12-3/8" x 35-3/4"	7-3/4" x 33-3/4"				
VCDD330I	14-1/2" x 43-1/2"	9-3/4" x 41-3/8"				

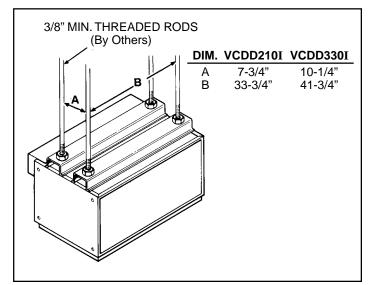
### **MOUNTING OPTIONS**



Mounting with threaded rod through adjustable mounting brackets located at top of housing.

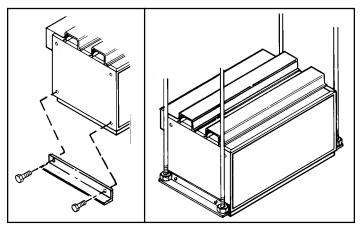
#### **MOUNTING OPTIONS**

Provide solid support to minimize sound leves. There are two basic mounting methods for these units.



*Typical mounting with threaded rod through mounting channels on top of housing.* 

Mounting brackets can be bolted to housing ends in a variety of configurations. Use screws and nuts provided in parts bag.

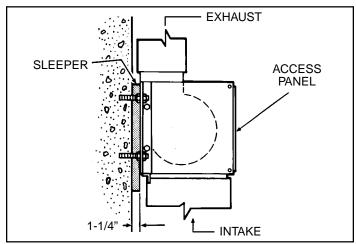


Mounting with threaded rods through adjustable mounting brackets located at bottom of housing.

If installing unit as a ceiling ventilator, make sure that either duct flanges or housing will be flush with finished ceiling. Duct flanges may be removed and discarded if they interfere with a ceiling installation.



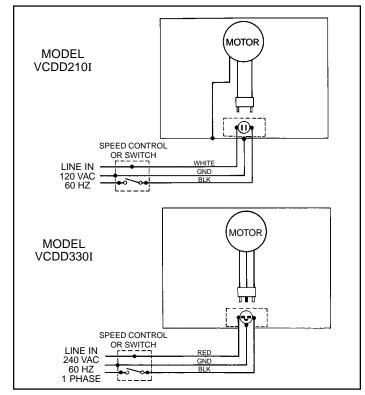
### **MOUNTING OPTIONS**



*Typical wall mounting with 3/8" threaded fasteners* (by others) through mounting brackets.

### **ELECTRICAL CONNECTIONS**

Connect electrical power cable to housing with proper connector for type of cable used. Provide 6" leads inside wiring box.

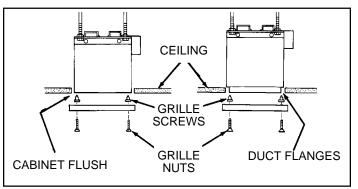


#### ACCESSORIES

MODEL	DAMPER	GRILLE	SPEED	VIBRATION
	KIT	KIT	CONTROL	HANGER
VCDD210I	D100	G102	72V / 72W	V104
VCDD330I	D101	G103	75V	V104

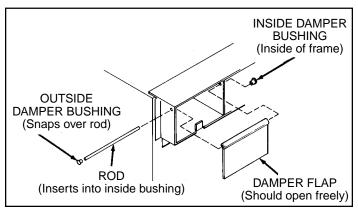
# Page 3 ACCESSORY INSTALLATIONS

If ventilator will discharge directly outside, install adamper kit to prevent backdrafts. A grille kit is available for applications where ventilator is installed with direct or remote room air intake.



Snap screw bushings into square openings around intake opening. Install grille with screws provided.

**NOTE:** If duct flanges around intake opening interfere with installation, remove them. Make sure that housing is flush with finished ceiling when ventilator is mounted.



Install damper flap using rod provided.

#### **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 grille:** Use appropriate vacuum attachment or remove grille and clean with a soft cloth and mild soap or detergent. Dry grille thoroughly before reinstalling.

**To clean blower assembly:** Remove either access panel or ceiling grille. Unplug blower assembly. Provide safe support for blower assembly. Remove blower mounting screws and lift blower assembly out of housing. Gently vacuum housing and blower motor. Vacuum or gently wash blower wheels and housings. DO NOT ALLOW WATER TO ENTER MOTOR. Make sure blower assembly is completely dry before reinstalling. Replace blower assembly in housing and plug assembly in. Replace grille and/or access panel.

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

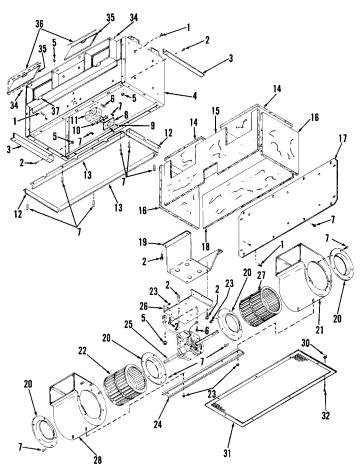


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### SERVICE PARTS

KEY NO.		D210I QTY.	MODEL VCC PART NO.		DESCRIPTION		
1 2	99420466 99170261	27 16	99420466 99170261	27 18	Insulation Clip #5/16 - 18 x ½		
2	33170201	10	99170201	10	Serrated Hex		
3	98006462	2	98006462	2	Head Screw Mounting Bracket		
4 5	97008107 93260447	1 12	97008108 93260447	1 14	Cabinet Body #5/16 - 18 Lock		
-			93200447		Nut		
6	99150471	2			#10-32 x ½ Green Ground Screw		
7	99150490	42	99150490	44	#10B x 3/8 Serrated Pan		
8	99270658	1	99270658	1	Head Screw Outlet Box Cover		
9	99160319	2	99160319	2	#6-32 x 3/8 Machine Screw		
10	99270656	1	99270657	1	Receptacle		
11 12	99270659 98006364	1 2	99270659 98006376	1 2	Outlet Box Duct Inlet Flange -		
13	98006363	2	98006375	2	short Duct Inlet Flange -		
14	99500335	2	99500339	2	long Bottom Panel		
15	99500333	1	99500337	1	Insulation Back Panel		
16	99500334	2	99500338	2	Insulation End Panel		
17	98006699	1	98006700	1	Insulation Access Panel		
18	99500336	1	99500340	1	Access Panel Insulation		
19 20	97007450 98006475	1 4	97007451 98006476	1 4	Blower Platform Venturi Ring		
21	97007453	1	97007455	1	Right Hand Scroll		
22	99020172	1	99020174	1	Blower Wheel - clockwise		
23 24	99260477 98006365	10 1	99260477 98006377	12 1	1/4-20 Lock Nut Blower Support		
25	99080194	1	99080195	1	Channel Motor		
26	98006381	1	98006382	1	Motor Platform		
27	99020173	1	99020175	1	Blower Wheel - counter-clock- wise		
28 29	97007452 G-102	1 1	97007454 G-103	1	Left Hand Scroll Grille Kit (contains		
23	0-102		0-103		Key Nos. 30, 31 & 32)		
30	99420470	8	99420470	8 1	Grille Nut		
31 32	98006477 99150472	1 8	98006478 99150472	8	Grille #8-18 x 1¼ Grille		
33	D-100	1	D-101	1	Screw Damper Kit		
					(contains Key Nos. 34, 35, 36 & 37)		
34	99100379	4	99100379	4	Damper Bushing		
35	98006479	2	98006480	2	Damper Flap		
36 37	98006481 99760002	2 2 2	98006472 99760002	2 2	Damper Rod Damper Flap		
**	97007448	1	97007448	1	Magnet Parts Bag		
	01001-10	1	57 5070		(contains 4 ea. of		
	Prder replacement parts by PART NO - not by KEY NO						

### SERVICE PARTS



Order replacement parts by PART NO. - not by KEY NO. \*\* Not Shown