

DOWNTURN NOZZLE KIT INSTALLATION FOR UNIT HEATERS

OPTIONS CD2, CD3, CD4, AND CD5 FOR MODELS UBX, UBZ, UDX, UDZ, AND UEZ

Downturn nozzles are designed to direct the discharge air in a more vertical flow. Ensure that all components listed in [Table 1](#) are available before beginning installation.

Table 1. Downturn Nozzle Assembly Components									
Option	Component	Unit Size (UBX, UBZ, UDX, UDZ)						Unit Size (UEZ)	
		030, 045	060, 075	100, 125	150, 175, 200	225, 250	300, 350, 400	130, 180	260, 310
Kit Packages									
CD2	Kit package, UBX/UDX	1036261	1036262	1036263	1036264	1036265	1036266	—	
	Kit package, UBZ/UDZ	1036267	1036268	1036269	1036270	1036271	1036272	—	
	Kit package, UEZ	—			—			1036270	1036272
CD3	Kit package, UBX/UDX	1036273	1036274	1036275	1036276	1036277	1036278	—	
	Kit package, UBZ/UDZ	1036279	1036280	1036281	1036282	1036283	1036284	—	
	Kit package, UEZ	—			—			1036282	1036284
CD4	Kit package, UBX/UDX	1033921	1033921	1033921	1034669	1034669	1034670	—	
	Kit package, UBZ/UDZ	1036291	1036292	1036293	1036294	1036295	1036296	—	
	Kit package, UEZ	—			—			1036297	1036296
CD5	Kit package, UBX/UDX	1036306	1036307	1036308	1036309	1036310	1036311	—	
	Kit package, UBZ/UDZ	1036312	1036313	1036314	1036315	1036316	1036317	—	
Common Parts									
CD2, CD3, CD4	Nozzle section, right side*	1033918	1034681	1034682	1034683	1034684	1034685	1034683	1034685
	Nozzle section, left side*	1033917	1034676	1034677	1034678	1034679	1034680	1034678	1034680
	Nozzle section, top*	1033919	1034671	1034672	1034673	1034674	1034675	1034673	1034675
	Nozzle blockoff, UBX/UDX	1036215	1034686	1036205	1036206	1036207	1036208	—	
	Nozzle blockoff, UBZ/UDZ	1036209	1036210	1036211	1036212	1036213	1036214	—	
	Nozzle blockoff, UEZ	—			—			1036212	1036214
	Nozzle section, bottom*	1033921		1034669			1034670	1034669	1034670
CD5	Nozzle section, right side*	1033918	1034681	1034682	1034683	1034684	1034685	—	
	Nozzle section, left side*	1033917	1034676	1034677	1034678	1034679	1034680	—	
	Nozzle section, top*	1033919	1034671	1034672	1034673	1034674	1034675	—	
	Nozzle blockoff, UBX/UDX	1036215	1034686	1036205	1036206	1036207	1036208	—	
	Nozzle blockoff, UBZ/UDZ	1036209	1036210	1036211	1036212	1036213	1036214	—	
	Nozzle section, bottom*	1033921		1034669			1034670	—	
Kit-Specific Parts									
CD3	Blockoff panel	1033920	1036216	1036217	1036218	1036219	1036220	1036218	1036220
CD5		1033920	1036216	1036217	1036218	1036219	1036220	—	
CD4	Vertical louver frame	1028413	1028433	1028443	1033695	1033715	1033728	1033695	1033728
CD5		1028413	1028433	1028443	1033695	1033715	1033728	—	
CD4	Vertical louver	1028418**	1028434**	1028441**	1033904***	1033961***	1033730***	1033904***	1033730***
CD5		1028418**	1028434**	1028441**	1033904***	1033961***	1033730***	—	
*Quantity is two (2) for options CD3 and CD5. All other quantities are (1) unless otherwise indicated.									
**Quantity is five (5).									
***Quantity is eight (8).									

⚠ DANGER ⚠

- Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.
- Installation should be done by a qualified agency in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction.

DO NOT DESTROY. PLEASE READ CAREFULLY. KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

INSTALLATION

NOTES:

- Models UDX and UDZ are designed for either two- or four-point suspension. Models UBX, UBZ, and UEZ are designed for four-point suspension.
- Before installing a downturn nozzle, ensure that the unit is installed with four-point suspension in accordance with the installation manual provided with the unit and ensure that the location provides sufficient clearance for nozzle option being installed.

Install the downturn nozzle kit as follows:

1. Assemble downturn nozzle assembly (see [Figure 1](#)) as follows:
 - a. Secure both side sections to top section using screws.
 - b. Slide bottom section into place so that it rests on small tabs on each side.
 - c. If installing option CD3 or CD5, assemble second nozzle section. Sections will be joined in step 12.

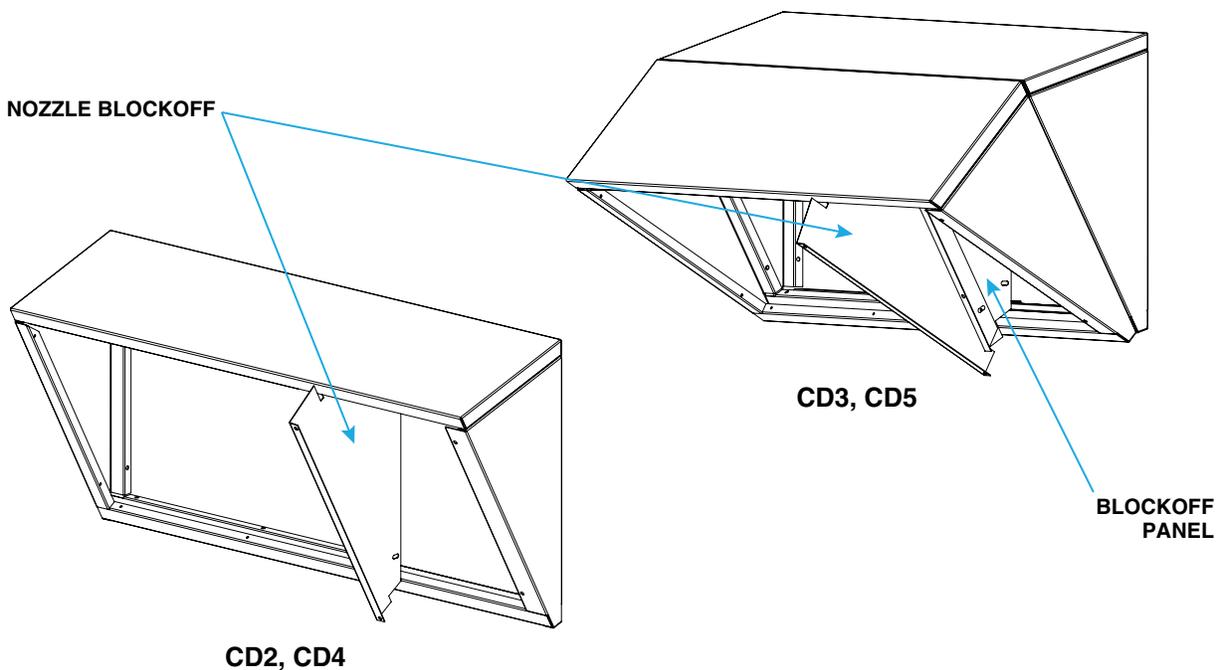


Figure 1. Downturn Nozzle Assemblies

2. If heater is installed, turn OFF gas and electric power. Allow time for louvers to cool before proceeding.
3. Remove each horizontal louver by pushing louver toward spring to release louver.
4. Remove door on right side of unit to access screws that secure face plate assembly (see [Figure 2](#)) to front of unit. Remove screws and remove face plate assembly.

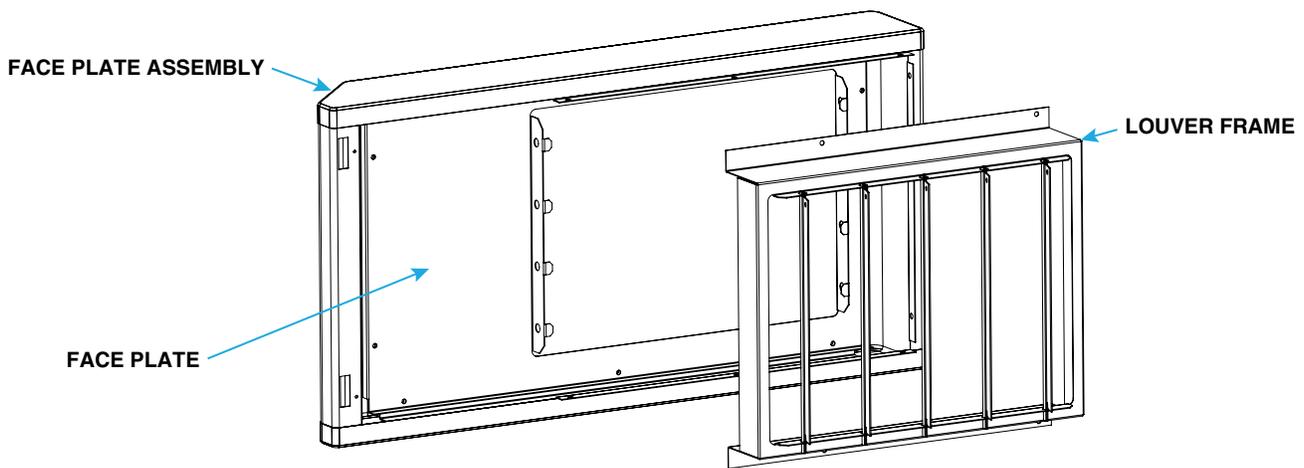


Figure 2. Typical Face Plate Assembly and Louver Frame

5. If installing option CD4 or CD5, position louver frame (see **Figure 2**) in face plate outlet so that holes align and secure frame to face plate using screws from kit.
6. Position downturn nozzle assembly in face plate so that holes align and secure nozzle to face plate using screws from kit.
7. Install nozzle blockoff (see **Figure 1**) and secure to face plate using screws from kit.
8. Position face plate assembly with downturn nozzle assembly so that holes align and secure both assemblies—through face plate opening on left side, top, bottom and through door opening on right side—to front of unit using screws from kit. Replace door on right side of unit.
9. Secure nozzle blockoff installed in step 7 to right panel of unit.
10. If installing option CD3 or CD5, secure blockoff panel (see **Figure 1**) to nozzle blockoff installed in step 7.
11. If installing option CD3 or CD5, position second assembled nozzle section in outlet of nozzle already attached to heater. Secure second nozzle section to first nozzle section using screws from kit to create downturn with two sections.

NOTE: Before installing the louvers, note the louver curve and determine how the louvers should be positioned to provide the optimal throw pattern. Depending on where the heater is installed and on the desired airflow direction, the louvers may be installed with their curves all in the same direction (either way) or the right half one way and the left the other.

12. Install vertical louvers in louver frame as follows:
 - a. On notched end of louver, slide compression spring over tab.

NOTE: Depending on the desired throw pattern, the end of the louver with the spring can go either into the frame top or bottom.

- b. With wider louver blade facing in toward heat exchanger, push tab with compression spring into hole in top or bottom louver frame (see **Figure 3**)—spring compresses. Insert tab on other end of louver into opposite louver frame. For left airflow, compress spring into top louver frame. For right airflow, compress spring into bottom louver frame.
- c. Install all remaining louvers in accordance with steps 12a and 12b.

INSTALLATION—CONTINUED

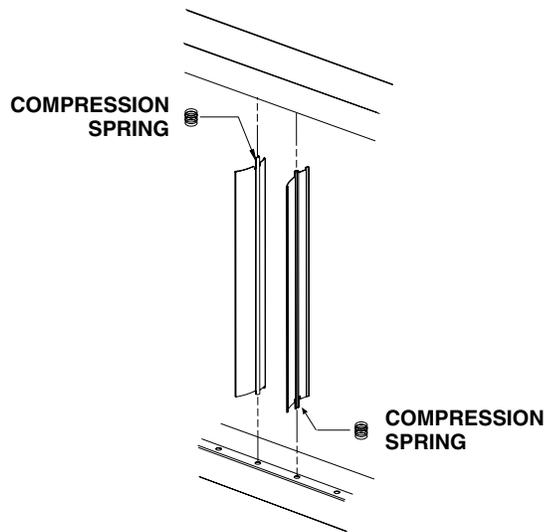


Figure 3. Louver Installation

13. Install horizontal louvers removed in step 3.

⚠ WARNING ⚠

To avoid burns, adjust louvers while heater is not in operation. If louvers must be adjusted while heater is operating, wear protective gloves.

14. Adjust horizontal and vertical louvers to provide desired throw pattern.
15. Turn ON gas and electric power.
16. Light heater in accordance with lighting instructions.
17. Check for proper operation.

