

## Option Installation

Applies to: **Downturn Nozzles, Options CD2, CD3, CD4, and CD5, for Model SDH; Model PDH; Model SHH; and Model PXH with or without Optional Hot Water Heat Module**

### Description and Application - All Options & Models

Downturn nozzles are designed to direct the discharge air in a more vertical flow. Downturn nozzles are available in four configurations:

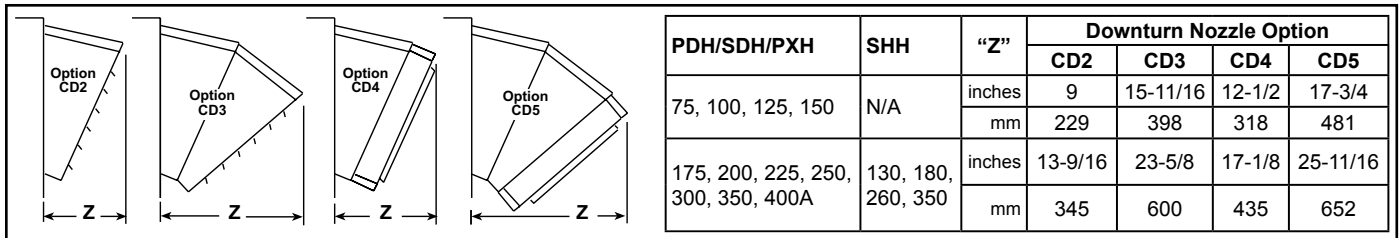
- **Option CD2** - one nozzle section with a 25-65° range of air deflection including horizontal louvers
- **Option CD4** - same as CD2 plus vertical louver frame and louvers
- **Option CD3** - two nozzle sections providing a 50-90° range of air deflection including horizontal louvers
- **Option CD5** - same as CD3 plus vertical louver frame and louvers

Installation should be done by a qualified agency in accordance with the instructions on this sheet and in compliance with all codes and requirements of authorities having jurisdiction.

### Dimensions

Nozzles fit the outlet opening and extend beyond the cabinet as shown in **FIGURE 1**.

**FIGURE 1 - "Z" is the Distance the Downturn Nozzle Extends beyond the Cabinet**



### Option Components - Nozzles for Models SDH, PDH, PXH and SHH

**NOTE:** Quantities not listed are one.

SDH/PDH Size	75, 100	125, 150	175, 200, 225	250, 300	350, 400A
SHH Size	--	--	130, 180	260	350
PXH Size	000A	000B	000C	000D	000E
<b>Option CD2 Pkg P/N</b>	<b>213252</b>	<b>213253</b>	<b>213254</b>	<b>213255</b>	<b>213256</b>
Nozzle Section Right Side	210812		210813		
Nozzle Section Left Side	210810		210811		
Nozzle Section Top	210800	210801	210802	210803	210804
Nozzle Section Bottom	210805	210806	210807	210808	210809
Nozzle Center Divider Support	---	212188	---	212189	212190
Screws, #8-18 x 3/8	(25) 195638	(28) 195638		(35) 195638	
Horizontal Louvers	(4) 201830	(8) 196231	(7) 196233	(14) 196231	(14) 201830
Compression Springs	(4) 195046	(8) 195046		(14) 195046	
<b>Option CD4 Pkg P/N</b>	<b>213262</b>	<b>213263</b>	<b>213264</b>	<b>213265</b>	<b>213266</b>
<b>Same components as Option CD2 above PLUS</b>					
Vertical Louvers	(6) 195314		(7) 195578	(9) 195578	(12) 195578
Compression Springs	(10) 195046	(17) 195046	(14) 195046	(23) 195046	(26) 195046
Side Frames for Vertical Louvers	(2) 210742		(2) 210743		
Vertical Louver Top/Btm Support	(2) 210744	(2) 210745	(2) 210746	(2) 210747	(2) 210748
Screws, #8-18 x 3/8	(40) 195638	(45) 195638		(50) 195638	
<b>Option CD3 Pkg P/N</b>	<b>213257</b>	<b>213258</b>	<b>213259</b>	<b>213260</b>	<b>213261</b>
Nozzle Section Right Side	(2) 210812		(2) 210813		
Nozzle Section Left Side	(2) 210810		(2) 210811		
Nozzle Section Top	(2) 210800	(2) 210801	(2) 210802	(2) 210803	(2) 210804
Nozzle Section Bottom	(2) 210805	(2) 210806	(2) 210807	(2) 210808	(2) 210809
Nozzle Center Divider Support	---	212188	---	212189	212190
Screws, #8-18 x 3/8	(25) 195638	(28) 195638		(35) 195638	
Horizontal Louvers	(4) 201830	(8) 196231	(7) 196233	(14) 196231	(14) 201830
Compression Springs	(4) 195046	(8) 195046		(14) 195046	
<b>Option CD5 Pkg P/N</b>	<b>213267</b>	<b>213268</b>	<b>213269</b>	<b>213270</b>	<b>213271</b>
<b>Same components as Option CD3 above PLUS</b>					
Vertical Louvers	(6) 195314	(9) 195314	(7) 195578	(9) 195578	(12) 195578
Compression Springs	(10) 195046	(17) 195046	(14) 195046	(23) 195046	(26) 195046
Side Frames for Vertical Louvers	(2) 210742		(2) 210743		
Vertical Louver Top/Btm Support	(2) 210744	(2) 210745	(2) 210746	(2) 210747	(2) 210748
Screws, #8-18 x 3/8	(40) 195638	(45) 195638		(50) 195638	

# Option Components - Nozzles for Model PXH with Hot Water Heat Module (Option HW2)

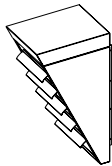
NOTES: Quantities not listed are one.

PXH Size w/Hot Water Module (HW2)	000A	000B	000C	000D	000E
<b>Option CD2 Pkg P/N</b>	<b>261335</b>	<b>261336</b>	<b>261337</b>	<b>261338</b>	<b>261339</b>
Nozzle Section Right Side	260668		260669		
Nozzle Section Left Side	260666		260667		
Nozzle Section Top	260661	260662	260663	260664	260665
Nozzle Section Bottom Support	260670	260671	260672	260673	260674
Offset Stop for Horizontal Louvers	260658		260659		
Nozzle Center Divider Support	---	262020	---	262021	260660
Screws, #10-16x1/2Ab Stalgd	(35) 11813				
Horizontal Louvers	(9) 201251	(18) 201249	(12) 201251	(24) 201830	(24) 201250
Compression Springs	(9) 195046	(18) 195046	(12) 195046	(24) 195046	
<b>Option CD4 Pkg P/N</b>	<b>261345</b>	<b>261346</b>	<b>261347</b>	<b>261348</b>	<b>261349</b>
<b>Same components as Option CD2 above PLUS</b>					
Vertical Louvers	(8) 201251	(12) 201251	(16) 201249	(28) 201249	(32) 201249
Compression Springs	(8) 195046	(12) 195046	(16) 195046	(28) 195046	(32) 195046
Vertical Louver Side Support	(2) 260650		(2) 260651		
Vertical Louver Top/Btm Support	(2) 260646	(2) 260647	(2) 260646	(2) 260648	(2) 260649
Center Horizontal Divider for Vertical Louvers	--	--	262011	262013	262012
Screws, #10-16x1/2Ab Stalgd	(30) 11813				
<b>Option CD3 Pkg P/N</b>	<b>261340</b>	<b>261341</b>	<b>261342</b>	<b>261343</b>	<b>261344</b>
Nozzle Section Right Side	(2) 260668		(2) 260669		
Nozzle Section Left Side	(2) 260666		(2) 260667		
Nozzle Section Top	(2) 260661	(2) 260662	(2) 260663	(2) 260664	(2) 260665
Nozzle Section Bottom Support	(2) 260670	(2) 260671	(2) 260672	(2) 260673	(2) 260674
Offset Stop for Horizontal Louvers	260658		260659		
Nozzle Center Divider Support	---	262020	---	262021	260660
Screws, #10-16x1/2Ab Stalgd	(45) 11813				
Horizontal Louvers	(9) 201251	(18) 201249	(12) 201251	(24) 201830	(24) 201250
Compression Springs	(9) 195046	(18) 195046	(12) 195046	(24) 195046	
<b>Option CD5 Pkg P/N</b>	<b>261350</b>	<b>261351</b>	<b>261352</b>	<b>261353</b>	<b>261354</b>
<b>Same components as Option CD3 above PLUS</b>					
Vertical Louvers	(8) 201251	(12) 201251	(16) 201249	(28) 201249	(32) 201249
Compression Springs	(8) 195046	(12) 195046	(16) 195046	(28) 195046	(32) 195046
Vertical Louver Side Support	(2) 260650		(2) 260651		
Vertical Louver Top/Btm Support	(2) 260646	(2) 260647	(2) 260646	(2) 260648	(2) 260649
Center Horizontal Divider for Vertical Louvers	--	--	262011	262013	262012
Screws, #10-16x1/2Ab Stalgd	(25) 11813				

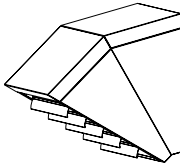
## Instructions

### Steps 1-4 Apply to:

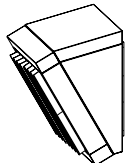
■ **Option CD2**



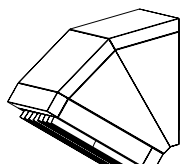
■ **Option CD3**



■ **Option CD4**



■ **Option CD5**



- If the heater is installed, turn off the gas (PDH, SDH, SHH). Turn off the power.
- Assemble Downturn Nozzle Section(s) - See FIGURE 2.**  
Using the screws in the kit, attach both sides to a top. Attach a bottom to both sides. If installing a Size that requires a center support (see component list), attach the center support.  
**If installing Option CD3 or CD5**, use the second set of nozzle parts and assemble the second nozzle section. (The second section assembled will not have a center support.)
- Install Assembled Downturn Nozzle Section(s) - See FIGURE 3.**  
If there are two assembled nozzle sections, select the one without the center support. Position that nozzle section in the heater outlet so that the holes on each side are lined up with the holes in the heater.  
Using the screws in the kit, attach the nozzle section to the heater outlet.  
**If installing Option CD3 or CD5**, position the second assembled nozzle in the outlet of the nozzle already attached to the heater. Attach the second nozzle to the first nozzle creating a downturn with two sections.
- Install the Horizontal Louvers in the Nozzle Outlet - See FIGURE 3.**
  - With the wider side of the louver facing out of the heater**, place one of the compression springs over the tab on the notched end of the louver.
  - Slide the tab with the spring into one of the holes on the left side of the opening (left when facing the heater). Push the louver, compressing the spring enough to place the tab on the other end into the corresponding hole on the right (either on the side of the outlet or in the center support).
  - Continue installing the louvers until all horizontal louvers are in place.

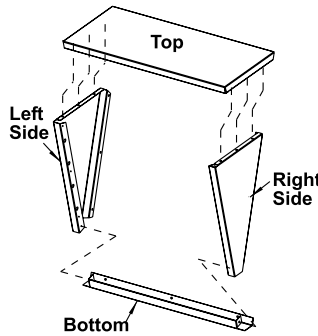
**CAUTION: To avoid getting burned, adjust louvers while heater is not in operation. If louvers are adjusted while heater is in operation, wear protective gloves.**

**FIGURE 2 - Assemble each Downturn Nozzle Section before Installing**

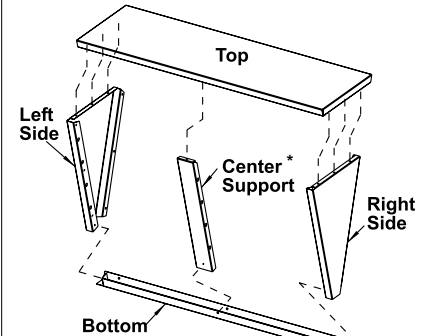
Options CD2 and CD4 have one section. Assemble as shown for size being installed.

Options CD3 and CD5 have two sections. Assemble each section separately. The center support illustrated for sizes on the right will be on only one nozzle section.

SDH/PDH Sizes 75, 100, 175, 200, 225  
SHH Sizes 130, 180  
PXH with HW Coil Sizes 000A, 000C



SDH/PDH Sizes 125, 150, 250, 300, 350, 400A  
SHH Sizes 260, 350  
PXH with HW Coil Sizes 000B, 000D, 000E



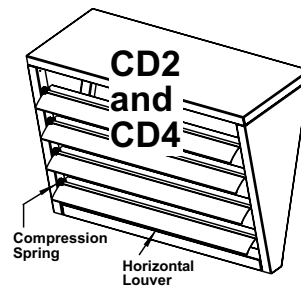
**FIGURE 3 - Install Nozzle Section(s) in the Heater Outlet - See Step 3.**

(NOTE: If installing two nozzle sections (CD3 & CD5), and one has a center post, be sure to install the section without the center post first.)

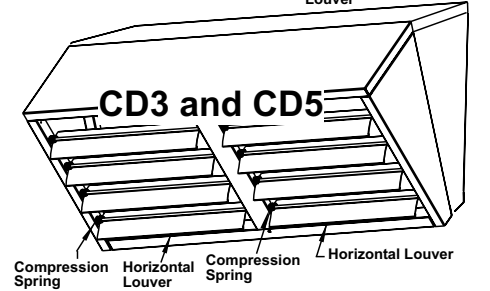
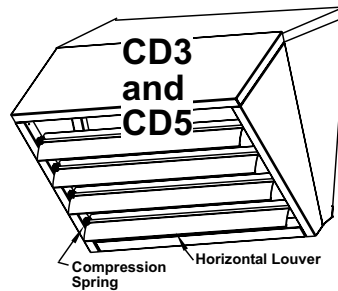
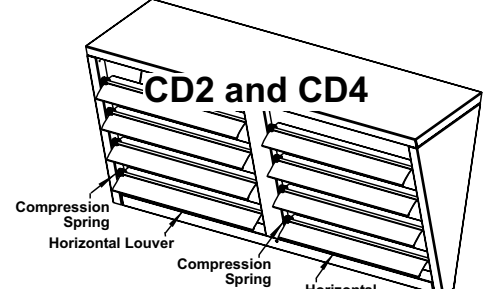
**Option CD3 & CD5 - Attach the second nozzle section to the nozzle assembly attached to the heater.**

Use the compression springs (Step 4) to install the horizontal louvers in the nozzle opening.

SDH/PDH Sizes 75, 100, 175, 200, 225  
SHH Sizes 130, 180  
PXH with HW Coil Sizes 000A, 000C



SDH/PDH Sizes 125, 150, 250, 300, 350, 400A  
SHH Sizes 260, 350  
PXH with HW Coil Sizes 000B, 000D, 000E



Options CD2 and CD3 - Installation of the optional downturn nozzle is complete. Skip to Step 8.

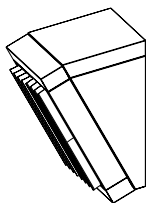
Options CD4 and CD5 - Continue with Steps 5, 6, 7, and 8

**5. Assemble the Vertical Louver Frame (See FIGURE 4.)**

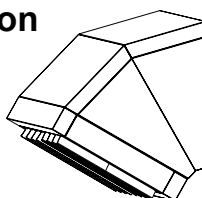
Using the screws in the kit, attach both sides to the top support. (NOTE: Top and bottom supports are identical.) Attach the bottom creating a frame.

**Steps 5-7 Apply only to:**

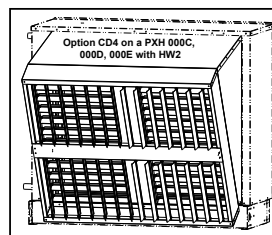
■ **Option CD4**



■ **Option CD5**

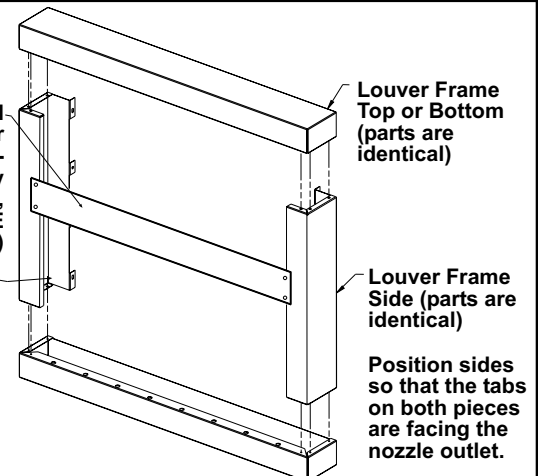


**FIGURE 4 - Assemble the Vertical Louver Frame**



Horizontal Center Support - applies only to PXH 000C, 000D, 000E (See illustration.)

Assemble louver frame with screws.



## Instructions (cont'd)

### 6. Install the Vertical Louver Frame

Position the assembled louver frame in the nozzle outlet so that the holes in the tabs on each side are lined up with the holes in the nozzle. (The tabs fit between the horizontal louvers.)

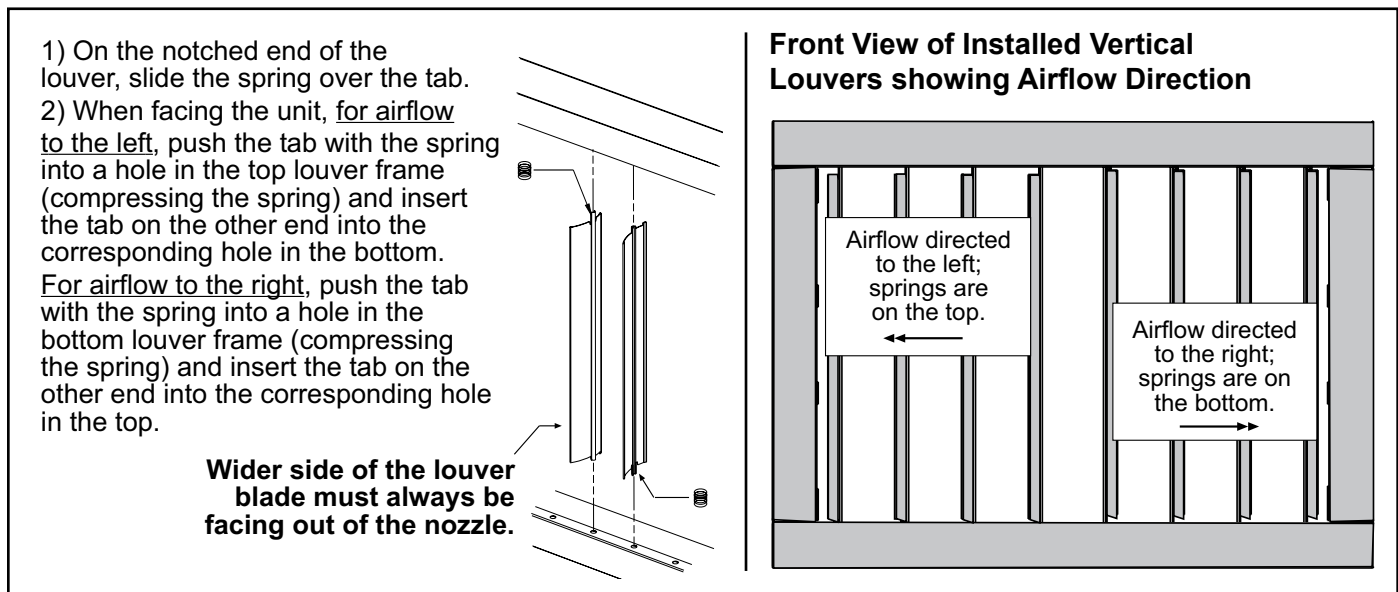
Using the screws in the kit, attach the tabs to the sides of the nozzle outlet.

### 7. Install the Vertical Louvers in the Louver Frame Using the Compression Springs (See FIGURE 5.)

Before actually 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 the desired direction of airflow, louvers may be installed with the curve all the same direction (either way) or the right half one way and the left the other as illustrated in FIGURE 5.

- a) **With the wider section facing out of the heater**, place one of the compression springs over the tab on the notched end of the louver.
- b) Depending on the throw pattern selected, the end with the spring can go either in the top support or the bottom. See FIGURE 5. Slide the tab with the spring into one of the holes in either the top or bottom support. Push the louver, compressing the spring enough to place the tab on the other end into the corresponding hole in the other support.
- c) Continue installing the louvers until all vertical louvers are in place.

**FIGURE 5 - Installing Vertical Louvers in Option CD4 or CD5**



**8. Applies to All Nozzles** - Verify that the louvers are adjusted to provide the desired throw pattern.

**CAUTION: To avoid getting burned, adjust louvers while heater is not in operation. If louvers are adjusted while heater is in operation, wear protective gloves.**

Installation of the nozzle option is complete.

If the heater is installed, turn on the electric. If installing on a gas heat model, turn on the gas. Operate the unit and check for proper operation.

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