



**REZNOR®**

**Discharge Air Nozzles,  
Options CD57, CD58, and CD59**

**Installation Form RZ-NA I-LDAP-N (Version A)  
Obsoletes Form RZ-NA I-LDAP-N**

**APPLIES TO: Model LDAP**

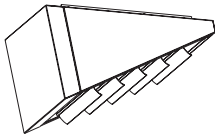
**Description  
and  
Application**

Nozzles are designed to direct the flow of discharge air from each heat section of a Reznor Model LDAP downflow heater. Nozzles are available in three configurations:

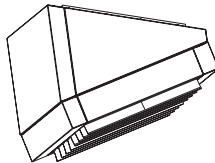
- **Option CD57** - nozzle providing a 25-65° range of air deflection
- **Option CD59** - same as CD57 plus 4-way louvers
- **Option CD58** - nozzle providing a 50-90° range of air deflection

**Option Pkg  
Components**

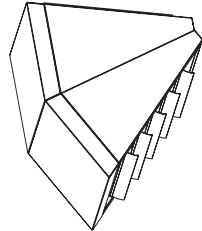
**• Option CD57**



**• Option CD59**



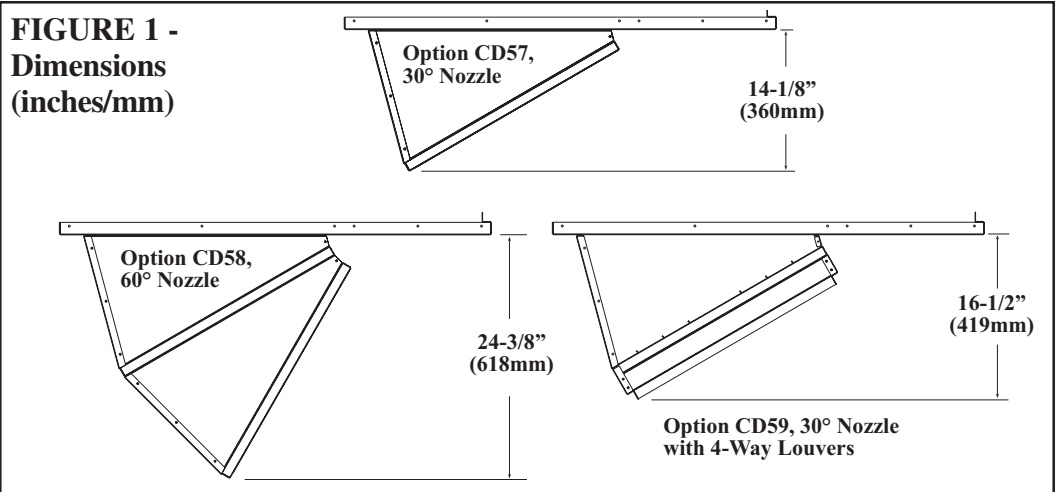
**• Option CD58**



Model LDAP Size (Read Application NOTE in each Table.)		400	800	1200
<b>Option CD57 Pkg P/N</b>		<b>208094</b>	<b>208886</b>	<b>208887</b>
Nozzle Section Right Side	<b>NOTE:</b> Package for Size 400 includes parts for one Option CD57 nozzle; Size 800 includes two nozzles; and Size 1200 includes three nozzles. Select and install nozzle kit(s) as required by the application.	(1) 207932	(2) 207932	(3) 207932
Nozzle Section Left Side		(1) 207933	(2) 207933	(3) 207933
Nozzle Section Top		(1) 207934	(2) 207934	(3) 207934
Nozzle Section Bottom		(1) 207935	(2) 207935	(3) 207935
Nozzle Side Filler		(2) 208747	(4) 208747	(6) 208747
Screws, #8-18 x 3/8" long AB point, slotted indented serrated hex washer head		(20) 195638	(40) 195638	(60) 195638
#8 x 1/2" long TEKS (self-drilling screws)		(6) 195249	(12) 195249	(18) 195249
<b>Option CD59 Pkg P/N</b>		<b>208100</b>	<b>208890</b>	<b>208891</b>
<b>Same components as Option CD57 above PLUS</b>				
Louver	<b>NOTE:</b> Package for Size 400 includes parts for one Option CD59 nozzle; Size 800 includes two nozzles; and Size 1200 includes three nozzles. Select and install nozzle kit(s) as required by the application.	(7) 195578	(14) 195578	(21) 195578
Top Louver Frame Support		(1) 207937	(2) 207937	(3) 207937
Btm Louver Frame Support		(1) 208637	(2) 208637	(3) 208637
Louver Frame Side		(2) 207936	(4) 207936	(6) 207936
Screws, #8-18 x 3/8" long, AB point, slotted indented serrated hex washer head		(18) 195638	(36) 195638	(54) 195638
Compression Springs (for louvers)		(7) 195046	(14) 195046	(21) 195046
#8 x 1/2" long TEKS (self-drilling screws)		(12) 195249	(24) 195249	(36) 195249
<b>Option CD58 Pkg P/N</b>		<b>208097</b>	<b>208888</b>	<b>208889</b>
Nozzle Section Right Side	<b>NOTE:</b> Package for Size 400 includes parts for one Option CD58 nozzle; Size 800 includes two nozzles; and Size 1200 includes three nozzles. Select and install nozzle kit(s) as required by the application.	(2) 207932	(4) 207932	(6) 207932
Nozzle Section Left Side		(2) 207933	(4) 207933	(6) 207933
Nozzle Section Top		(2) 207934	(4) 207934	(6) 207934
Nozzle Section Bottom		(2) 207935	(4) 207935	(6) 207935
Nozzle Side Filler		(4) 208747	(8) 208747	(12) 208747
Nozzle Bottom Filler		(1) 208606	(2) 208606	(3) 208606
Screws, #8-18 x 3/8" long AB point, slotted indented serrated hex washer head		(46) 195638	(92) 195638	(138) 195638
#8 x 1/2" long TEKS (self-drilling screws)		(12) 195249	(24) 195249	(36) 195249

**Nozzle  
Dimensions**

**FIGURE 1 -  
Dimensions  
(inches/mm)**



# Installation Instructions

**WARNING:** 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 the instructions on this sheet and in compliance with all codes and requirements of authorities having jurisdiction.

■ **Option CD57 or CD58** .....Follow instructions in **SECTION A**.

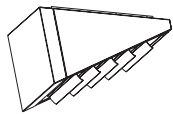
■ **Option CD59** .....Follow instructions in both **SECTIONS A and B**.

All installations will also include the louvers that were shipped with the heater. Repeat the instructions to install a nozzle on each heat section.

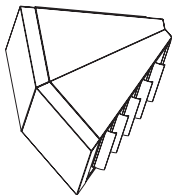
## SECTION A

### Applies to

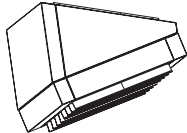
■ **Option CD57**



■ **Option CD58**



■ **Option CD59**



1. If the heater is installed, turn off the gas and the electric power.

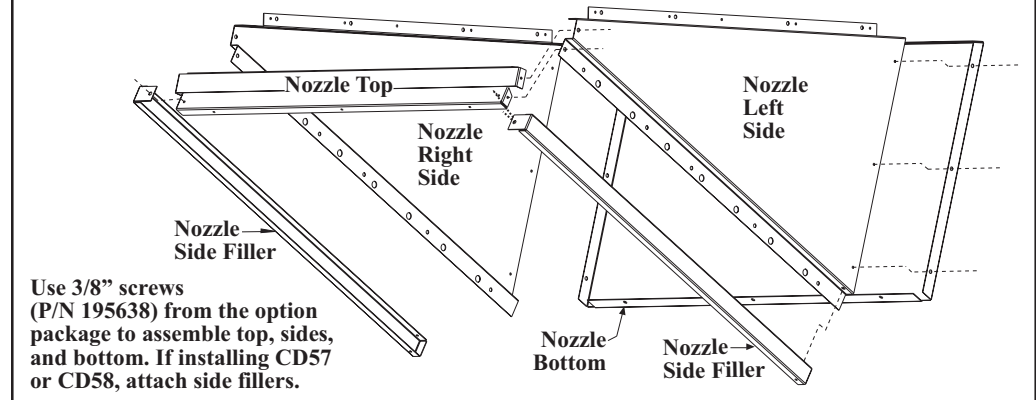
2. Assemble Nozzle

**All Options** - See **FIGURE 2**. Assemble a nozzle section. Use the 3/8" screws in the kit to attach both sides to the top. Attach the bottom to both sides.

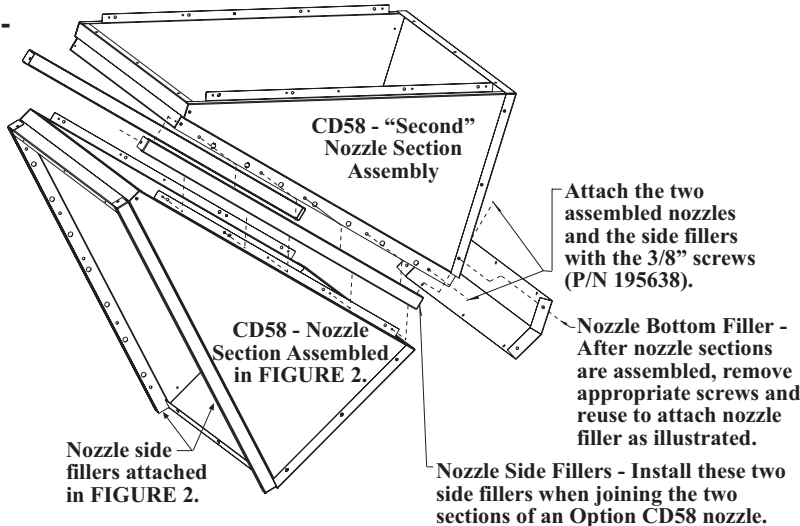
**Options CD57 and CD58** - Use 3/8" screws to attach side fillers as shown.

**Option CD59** - Do not attach side fillers; save to install later.

**FIGURE 2 - Assemble a Nozzle Section**



**FIGURE 3 - If installing Option CD58, assemble the second nozzle and attach the two nozzle sections.**



**Option CD58** - Assemble the second nozzle section **without attaching the side fillers**. Attach the two nozzles and the side fillers as shown to create one nozzle with two sections (See **FIGURE 3**). Position the nozzle bottom filler over the seam between the two bottom nozzle sections. Remove the screws that line up with the holes in the nozzle bottom filler. Re-insert the screws securing the filler over the seam.

3. If the louvers shipped with the heater have been installed in the heater discharge opening, remove them.

Save the louvers and the springs to be re-installed in the nozzle discharge.

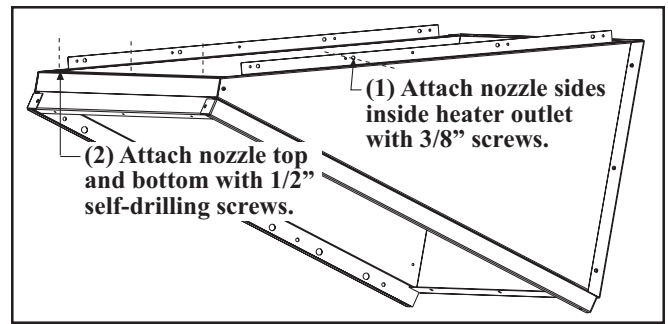
4. Install the Assembled Nozzle in the Heater Outlet (**FIGURE 4**)

**All Options** - The discharge opening is square so the nozzle can be installed in any direction. Determine the appropriate direction and position the assembled nozzle in the heater outlet so that the holes on each side are lined up with the holes in the heater. Use the 3/8" screws in the kit to attach the nozzle sides to the heater.

Screw ends should be inside the nozzle.

**FIGURE 4 - Fasten Assembled Nozzle to Heater Outlet (NOTE: Option CD57 is illustrated. Procedure is the same for all options.)**

Using the 1/2" self-drilling screws in the kit, reach inside the nozzle and attach the nozzle top and bottom to the heater outlet. Use the holes in the nozzle top and bottom to position the screws.

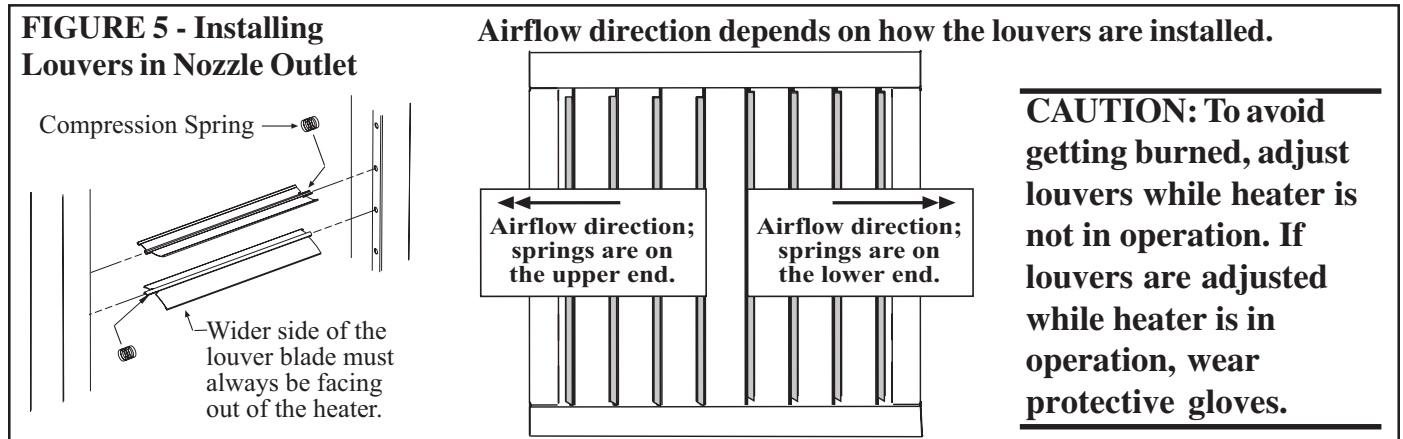


**5. Install the Louvers in the Nozzle Outlet**

**All Options** - Before actually installing the louvers, note the louver curve and determine how the louvers should be positioned to provide the optimal throw pattern. Louvers may be installed with the curve all the same direction (either way) or the right half one way and left the other as illustrated in **FIGURE 5**. Follow the instructions and refer to the illustration to install the louvers using the compression springs.

**Louver Installation Instructions:**

- a) With the wider section of the louver facing out of the heater, place one of the compression springs over the tab on the notched end of a louver. The end of the louver with the spring will fit in any direction in the square opening. How the louver turns depends on which end of the louver is inserted first.
- b) Depending on the airflow pattern selected, push the louver tab with the spring into a hole in the discharge opening and insert the louver tab on the other end into the corresponding hole on the opposite side.
- c) Continue installing until all louvers are in place. Adjust the louvers to provide the desired air throw pattern.



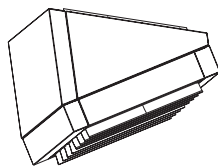
**Option CD57 or CD58** - Repeat nozzle installation as required for each heat section. If the heater is installed, turn on the electric and the gas. Light the heater following the lighting instructions. Check for proper operation.

**Option CD59** - Continue to **SECTION B**.

**SECTION B**

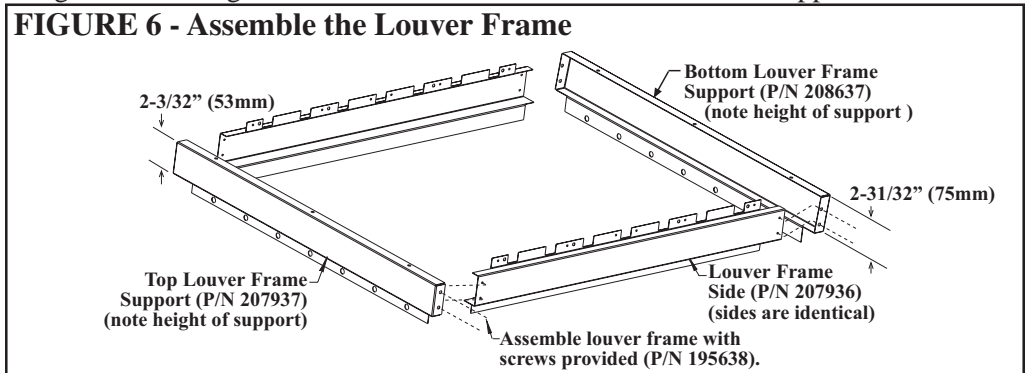
**Applies to**

■ **Option CD59**



**1. Option CD59 - Assemble the Frame for 4-Way Louvers (See FIGURE 6.)**

Using the 3/8" long screws in the kit, attach both sides to the supports.



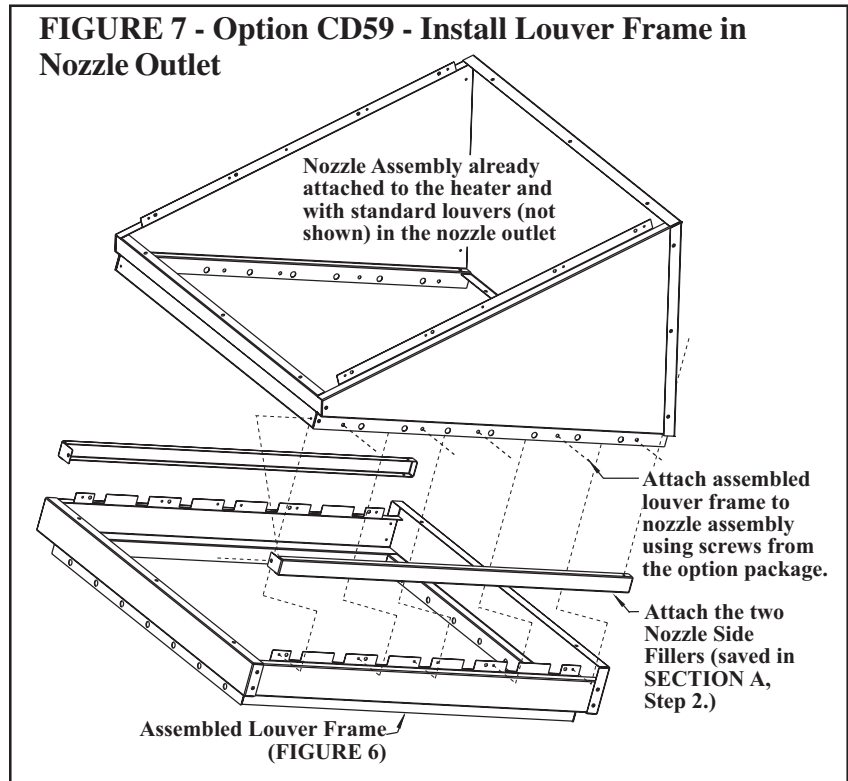
## SECTION B - CD59 Installation Instructions (cont'd)

2. Install the Assembled Louver Frame in the Nozzle Outlet (See FIGURE 7. Note that standard louvers are not shown but should already be installed in the nozzle.)

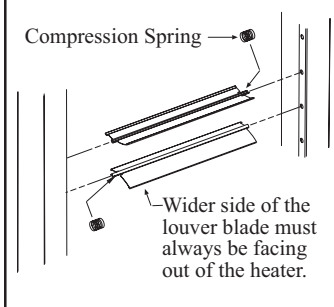
Position the assembled louver frame in the nozzle outlet so that the holes in the tabs on each side are lined up with the holes in the nozzle. The tabs in the louver frame fit between the louvers already installed in the nozzle discharge. Using the 3/8" screws (P/N 195638) from the kit, attach the louver frame tabs to the nozzle. Screw ends should be inside the nozzle.

Use the 1/2" self-drilling screws (P/N 195249) to attach the other two sides of the louver frame. Use the holes in the louver frame as a template for inserting the screws.

**FIGURE 7 - Option CD59 - Install Louver Frame in Nozzle Outlet**



**FIGURE 8 - Installing Louvers in the Louver Frame**



3. Install the Louvers in the Louver Frame Using the Compression Springs (See FIGURE 8.)

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 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, page 3.

- 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.
- Depending on the throw pattern selected, the end with the spring can go in either direction. Slide the tab with the spring into one of the holes in either of the sides. Push the louver, compressing the spring enough to place the tab on the other end into the corresponding hole in the other side.
- Continue installing until all louvers are in place.

4. Adjust the louvers 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.**

5. Repeat nozzle installation as required for each heat section. If the heater is installed, turn on the electric and the gas. Light the heater following the lighting instructions. Check for proper operation.

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