



Duct Flange Option CD9

Applies: Models UDBP, UDBS, B & BE

Description and Application

The duct flange option is designed for connecting the heater to warm air ductwork. This option applies to blower type unit heater Models UDBP, UDBS, B and BE. See duct connection dimensions for each model on page 2. Check the components against the appropriate table below.

Kit Components

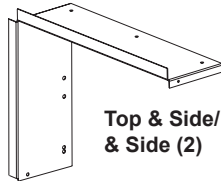
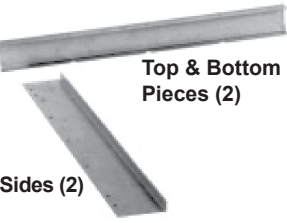
Figure 1 - Duct Flange for Models UDBP & UDAS 	Model UDBP & UDBS	30, 45	60, 75	100, 125	150, 175, 200	225, 250	300, 350, 400
	Top & Side/Bottom & Side (2)	Option Pkg P/N	202909	202910	202911	202912	202913
Components (qty in parenthesis)							
	Duct Flange Section (Side & Top / Side & Bottom)	(2) 201750	(2) 201751	(2) 201752	(2) 201813	(2) 201814	(2) 201815
	Sheetmetal Screws #10 x 1/2"lg	(16) 11813	(14) 11813	(16) 11813	(18) 11813	(18) 11813	(18) 11813

Figure 2 - Duct Flange for Models B & BE 	Model B & BE	25, 50	75	100	125	130	165	200	250, 300	400
	Top & Bottom Pieces (2) Sides (2)	Option Pkg P/N	101194	101195	101501	135591	101196	101197	101198	101199
Components (qty in parenthesis)										
	Flange Top & Bottom	(2) 101155	(2) 101156	(2) 101157	(2) 101159	(2) 101157	(2) 101158	(2) 101159	(2) 101160	(2) 101161
	Duct Flange Sides	(2) 101163	(2) 101163	(2) 101163	(2) 101163	(2) 101164	(2) 101164	(2) 101164	(2) 101164	(2) 101164
	Sheetmetal Screws #10 x 1/2"lg	(6) 11813	(6) 11813	(6) 11813	(6) 11813	(6) 11813	(6) 11813	(6) 11813	(6) 11813	(8) 11813
	Sheetmetal Screws #10 x 3/8"lg	(4) 96426	(4) 96426	(4) 96426	(4) 96426	(6) 96426	(6) 96426	(6) 96426	(6) 96426	(6) 96426

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 Instructions

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.

Follow the instructions for the heater model being serviced.

1. If the heater is installed, turn off the gas and the electric power. Allow time for the louvers to cool before beginning installation of the duct flange.
2. **Remove the Horizontal Louvers.**
Models UDBP & UDBS - Louvers are removed individually. Push toward the spring, releasing the louver. Remove all louvers.
Models B & BE - Louvers and frame are removed as an assembly. Remove the screws that attach the louver frame sides to the inner side panels of the heater. Remove the louver assembly. Save the screws; discard the assembly.
3. **Install the Duct Flange:**
Models UDBP & UDBS - See **FIGURE 3**.
Models B & BE - See **FIGURE 4**.
4. When the duct flange and ductwork are complete, turn on the electric power and the gas flow. Follow the instructions on the lighting instructions plate to relight the heater. Check for proper operation.

Installation Instructions (cont'd)

FIGURE 3 - Installing Duct Flange on Model UDBP or UDBS

Attach Sections - In the discharge opening, position one L-shaped section on the left side and across the top. Line up the vertical section with the holes in the cabinet; attach with sheetmetal screws. Using the clearance holes in the duct flange as a guide, drill 1/8" diameter holes across the top of the header cabinet opening. Attach with the sheetmetal screws.

Position the second duct flange section so that the top corner is inside the already installed section and the bottom corner of the outside. Attach up the side using the holes in the cabinet. Using the clearance holes in the duct flange as a guide, drill 1/8" diameter holes across the bottom of the heater cabinet opening. Attach with sheetmetal screws.

At the two corners where the sections meet, attach the sections with a sheetmetal screw; insert with points to inside of the duct flange.

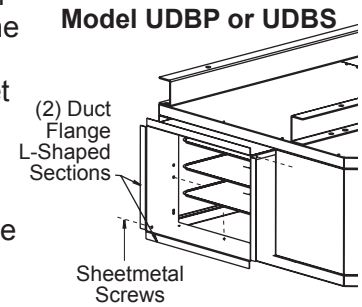


FIGURE 4 - Installing Duct Flange on Models B and BE

Attach Sections - (Duct flange sides are interchangeable; there is no right or left piece.)

Position a side piece in the heater opening with the duct flange toward the outside; match two holes from the louver assembly that was removed in Step 2. Using the screws removed from the louver assembly, attach the duct flange side at the two holes. Repeat to attach the other side.

Additional screws are required on each side. On Sizes 25 - 125, two additional screws are required; on Sizes 130 - 400, three additional screws are required per side. Drill 3/32" diameter holes in both inner side panels of the heater. Use the 3/8" long screws to finish attaching the duct flange sides. (Since the duct flange sides are interchangeable, there will be one holes at each end that is not used).

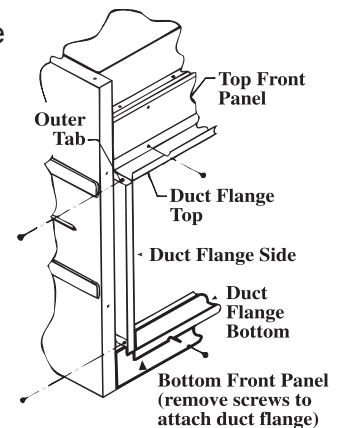
Attach Duct Flange Top and Bottom (see illustration)

Top:

1. Position the duct flange top with the outer tabs down over the outside of the side pieces.
2. Using the holes in the heater top front panel, attach the duct flange top.
3. Insert the corner screws in the top and the sides with the screw ends to the inside of the duct flange.

Bottom:

1. Remove and save the screws from the bottom front panel of the heater.
2. Position the duct flange bottom with the tabs over the sides.
3. Attach, re-inserting the screws removed from the front of the heater.
4. Insert the corner screws (with points to the inside) attaching the bottom and sides of the duct flange.



Ductwork

Ductwork should be fitted over the vertical flange and fastened at the top, bottom and sides with sheetmetal screws. Seal joints with duct tape to prevent air leaks. Properly sized ductwork based on CFM and static pressure is required for a good heating installation. All supply ducts should be equipped with dampers so that air delivery may be balanced.

Duct Connection Dimensions - including 3/4" (19 mm) duct flange

UDBP & UDBS		30, 45	60, 75	100, 125	150, 175, 200	225, 250	300, 350, 400
Width	inches	15-5/16	15-5/16	15-5/16	24-1/2	24-1/2	24-1/2
	mm	389	389	389	622	622	622
Height	inches	11-1/2	14-1/2	22-1/2	17-1/2	23-1/2	31-1/2
	mm	292	368	572	445	597	800

B & BE		30, 45	75	100	125	130	165	200	250, 300	400
Width	inches	12-1/4	14-1/4	16-1/4	22	16-1/4	19	22	27-1/2	35-3/4
	mm	311	362	413	559	413	483	559	699	908
Height	inches	17-3/8	17-3/8	17-3/8	17-3/8	23-7/8	25-3/8	25-3/8	25-3/8	25-3/8
	mm	441	441	441	441	606	606	606	606	606

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