OPTIONAL OVERHEAD DOOR DIFFUSER

The Reznor Overhead Door Diffuser option is designed to provide a screen of warm air across the door opening to restrict cold wind blowing into the area and to reduce the heated atmosphere inside the area from escaping out.

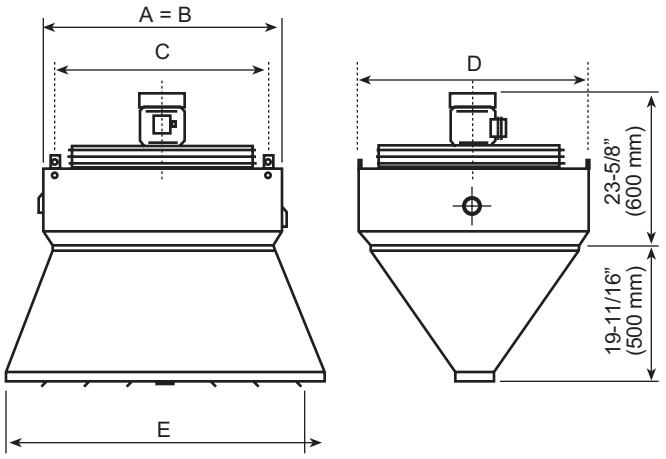
Generally the unit is controlled by a door switch, which turns the unit on when the door is open and shuts it off when the door is closed. Sometimes this unit operates on a short time delay to help the main heating system maintain (or return to) the desired temperature setting.

This system is relatively inexpensive to install, maintain and run. The savings are not only in economy of heating, but comfort to personnel, reducing loss of productive time.

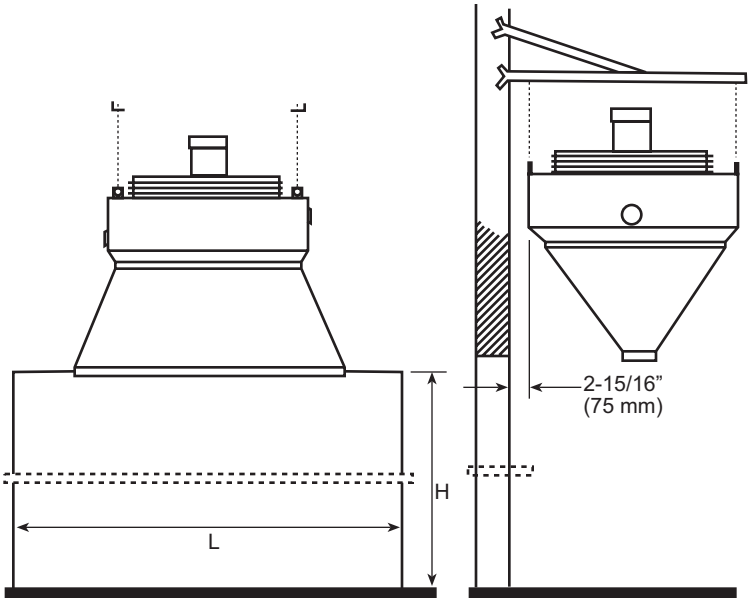
The diffuser is shipped separately for field installation.

It is of a “fishtail” design produced from sheet metal. The discharge case has manually adjustable louvers for individual requirements.

The Reznor door curtain diffuser is only available on Model WS size 300/350.



Size	Inches (mm)				feet (meters)		Weight lbs (kg)
	A=B	C	D	E	Door Height H	Door Width L	
300/350	35 (900)	32 (803)	35 (900)	47 (1200)	10-15 (3-4.5)	6-7 (1.8-2)	190 (86)

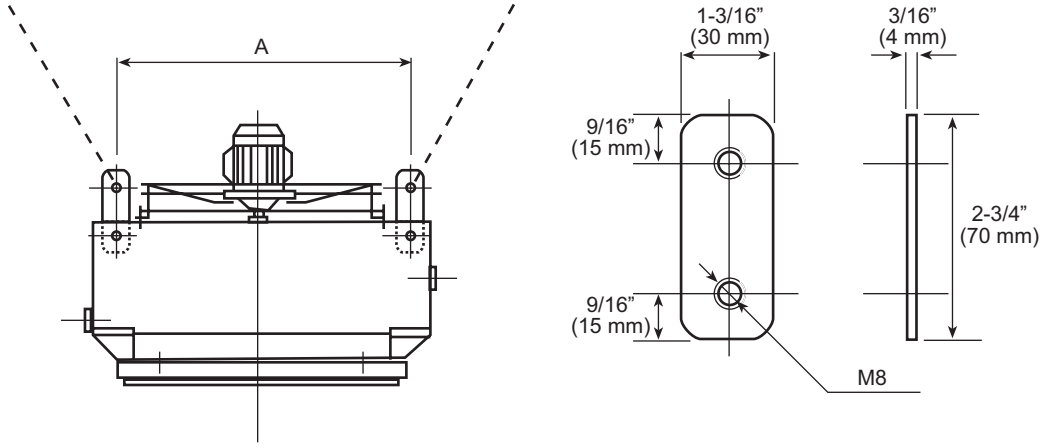


All dimensions given in inches and (mm).

SUSPENSION PLATE FOR CEILING INSTALLATION

All units are shipped with suspension plates for mounting.

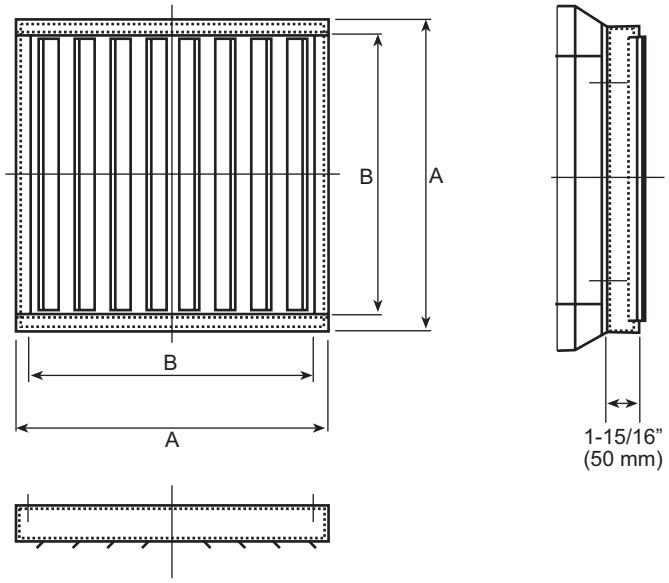
Size	18/24	23/33	44/62	60/85	78/110	96/120	140/175	190/238	300/350
A	12-3/4 (321)	12-3/4 (321)	14-3/4 (375)	16-7/8 (429)	19 (483)	21-1/8 (537)	23-1/4 (591)	25-3/8 (645)	31-5/8 (803)



OPTIONAL VERTICAL LOUVERS

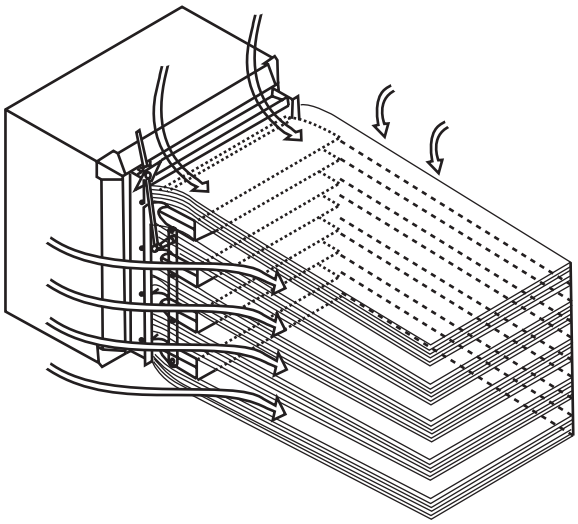
Vertical Louvers can be used with units installed for either horizontal or vertical discharge, but they are recommended for vertical discharge units to create a 4 way discharge pattern.

Size	A	B
18/24	12-1/2 (318)	11-1/8 (282)
23/33	12-1/2 (318)	11-1/8 (282)
44/62	14-5/8 (372)	13-1/4 (336)
60/85	16-3/4 (426)	15-3/8 (390)
78/110	18-7/8 (480)	17-1/2 (444)
96/120	21 (534)	19-5/8 (498)
140/175	23-1/8 (588)	21-3/4 (552)
190/238	25-1/4 (642)	23-7/8 (606)
300/350	31-1/2 (800)	30-1/6 (764)



OPTIONAL AIR FLOW INDUCTION OPTIMIZER

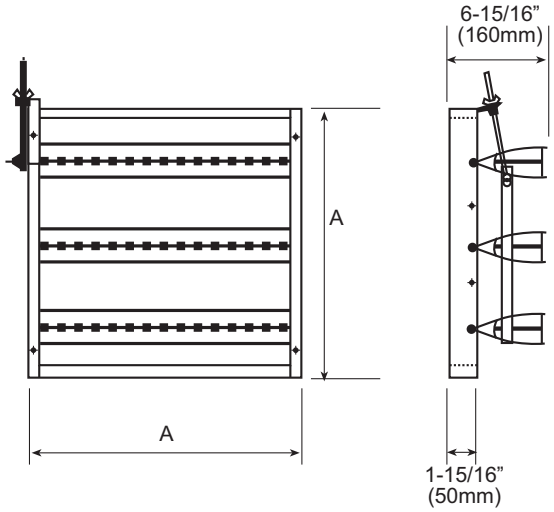
Greatly increase the throw of horizontal discharge units.



The Air Flow Induction Optimizer increases the throw for Reznor Models WS. This increased flow results in energy savings and better environmental control. This option increases the air speed thanks to the unique shape of the deflecting louvers which create layers of hot air at the unit outlet.

The space created between layers causes air around the front of the unit to be drawn into the air stream and mixed with the heated air. The result is a lower leaving air temperature and a significant increase in the air throw.

Size	A
18/24	12-3/8 (314)
23/33	12-3/8 (314)
44/62	14-1/2 (368)
60/85	16-5/8 (422)
78/110	18-3/4 (476)
96/120	20-7/8 (530)
140/175	23 (584)
190/238	25-1/8 (638)



All dimensions given in inches and (mm).

OPTIONAL AIR FLOW INDUCTION OPTIMIZER (cont'd)

The leaving air temperature from the units has a decisive influence on hot air stratification and consequently on energy saving: for every 2°F (1°C) increase in temperature there is a 1.5% increase in energy consumption.

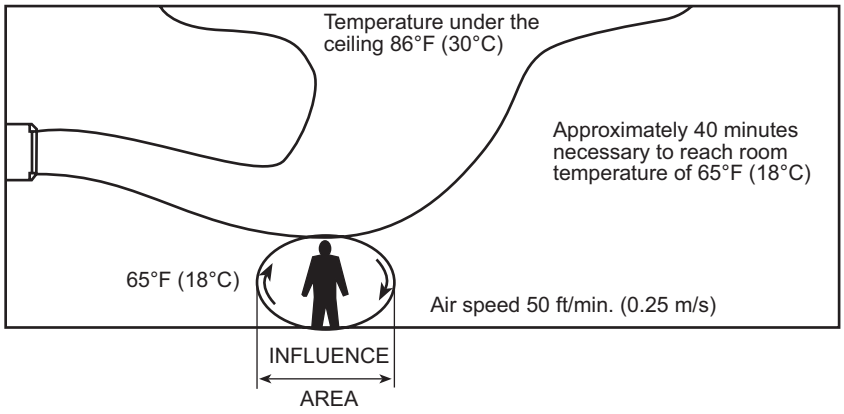
The use of the Air Flow Induction Optimizer has the following advantages:

a) Energy Saving
   - Reduced hot air stratification within the building
   - Reduced operating time of the units with the same ambient temperature

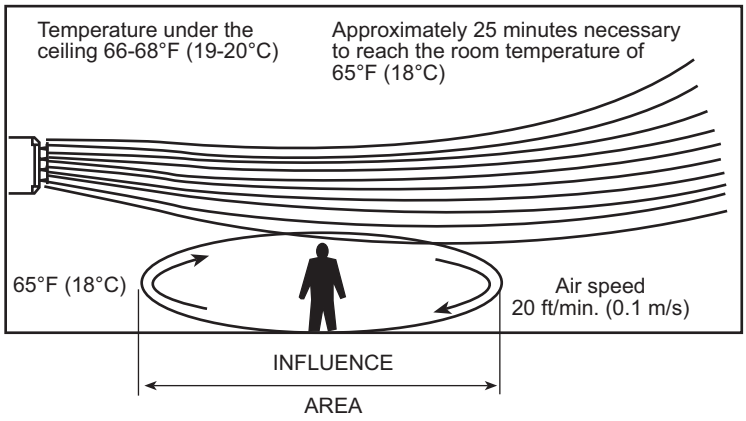
   Energy savings vary by region and other variables, but average savings can be between a minimum of 5% and a maximum of 15%. In many applications, payback is within two heating seasons.

b) Environmental Comfort
   - Increased floor temperature uniformity with greater comfort area
   - Possibility to install smaller and quieter units, due to increase of throw

Without the Optional Air Flow Induction Optimizer air flow and throw are good.



With the Optional Air Flow Induction Optimizer air flow and throw are better.



Increase in throw with the Optional Air Flow Induction Optimizer in feet (meters)

Size	Maximum Throw **without** Optimizer		Maximum Throw **with** Optimizer	
	Low Speed	High Speed	Low Speed	High Speed
18/24	16 (5)	23 (7)	26 (8)	36 (11)
23/33	16 (5)	25 (7.5)	26 (8)	39 (12)
44/62	18 (5.5)	26 (8)	30 (9)	43 (13)
60/85	25 (7.5)	36 (11)	43 (13)	52 (16)
78/110	33 (10)	46 (14)	49 (15)	62 (19)
96/120	33 (10)	46 (14)	49 (15)	62 (19)
140/175	39 (12)	52 (16)	56 (17)	75 (23)
190/238	46 (14)	59 (18)	62 (19)	79 (24)