Reznor

0005MAXIGBEN

MAXIMIZOR 3000 - 4500 & 9000

TECHNICAL DATA & INSTALLATION INSTRUCTIONS

The Reznor MAXIMIZOR de-stratification fans are intended for use in commercial and industrial premises to provide additional air circulation thus improving environmental comfort and providing energy savings.

They are suitable for installing at heights of between (minimum) 4 and 30 meters measured to the underside of the appliance. This minimum distance of 4m must always be respected. Ensure that the appliance should never be installed within reach of persons! A distance of at least 300 mm to the top of the appliance should be maintained between the roof or ceiling.

Air velocities of 1.0 m/s under isothermic conditions, at a height of 2,0 meters above floor level are recommended as design criteria. Adjustment is achieved by adjustment of the air outlet louver blades to change the throw pattern. When louvers are adjusted as shown in fig. 1a/b & fig. 3. they must be bent at both setting points to ensure a uniform air flow from the outlet.

MAXIMIZORS must be installed in a suspended manner using all of the suspension points provided. Materials used for the suspension and the structural elements to which they are to be fastened must be capable of withstanding ten (10) times the weight of the appliances.

Suspension chains etc. must be angled at 20° (see figure 6)

to the vertical to ensure that rotational movement does not occur during start-up and operation. Rigid suspension is not recommended, as this will cause noise transmission through the structural elements of the building.

MAXIMIZORS should not be installed close to a wall as to do so destroys the air flow pattern as described as well as causing peripheral turbulence and resulting excess noise generation.

These appliances must be earthed.

Each MAXIMIZOR should be electrically connected to a separate fused double pole isolator with a minimum contact separation of 3,0 mm between all poles.

It is strongly recommended such isolators are of the key lockable type to prevent unauthorised operation. They should be installed so that they are clearly visible to any person working on the appliance.

A control thermostat is fitted to the appliance. As a guide it should be adjusted to operate at a temperature 5 °C higher than the design comfort temperature of the installed space. This will ensure that chill factors are not experienced by occupants.

Table 1 PERFORMANCE DATA

Louver setting angle) Pri	mary air vo	ume	s & Mour	ling height i	o floor	sa Se Biller	(โนอีกเอเล	vereils a.
18L9 \$6		VPRIM (m)/h	1		D(m) //res4		7.4	جُونَاءُ فِينَاءُ لِكَا	2018
Model size	3000	4500	9000	3000	4500	9000	3000	e skurj	MATE.
00	3000	4440	8840	12.0	19.5	27.0	3.0	4.0	6.0
169	2900	4300	8620	6.5	10.5	13.5	5.0	6.0	9.0
3098	2830	4150	8400	5.5	9.0	11.0	8.0	13.0	19.0
The property to	2780	4000	8180	4.5	7.0	8.5	10.0	17.0	25.0
600°	2730	3800	7960	3.5	5.5	6.0	11.0	19.0	29.0
752	2670	3600	7740	3.0	4.0	4.0	11.0	19.8	29.0

The number of MAXIMIZORS required can be determined from the following formula: $n = \frac{V \times 2}{V^{\text{prim}} \times 1.5}$

Where: n = Number of MAXIMIZORS required (round up)

V = Volume of building m³

V^{prim} = Primary air volume from table 1

Thomas@Betts

Table 2a: MAXIMIZOR 3000

Position of the louvers	0°C	5°C	10°C	15°C	20°C
0°	12.1	10.8	10.3	9.9	9.7
15°	6.3	5.9	5.7	5.6	5.5
30°	5.4	5.1	4.9	4.9	4.8
45°	4.5	4.3	4.2	4.1	4.1
60°	3.6	3.4	3.4	3.3	3.3
75°	2.7	2.7	2.6	2.6	2.6

Table 2b : MAXIMIZOR 4500

Position of the louvers	0°C	5°C	10°C	15°C	20°C
0°	19.5	16.9	16.1	15.5	15.1
15°	10.5	9.5	9.1	9.0	8.8
30°	9.0	7.9	7.6	7.5	7.3
45°	7.0	6.2	6.0	5.9	5.8
60°	5.5	4.6	4.5	4.4	4.4
75°	4.0	3.2	3.1	3.1	3.0

Table 2c : MAXIMIZOR 9000

Position of the louvers	0°C	5°C	10°C	15°C	20°C
0°	27	23.2	21.9	21.1	20.5
15°	13.5	11.5	11.1	10.8	10.6
30°	11.0	9.5	9.2	9.0	8.8
45°	8.5	7.4	7.2	7.1	6.9
60°	6.0	5.4	5.3	5.2	5.1
75°	4.0	3.6	3.5	3.5	3.4

Table 3: TECHNICAL DATA

DESCRIPTION		3000	4500	9000		
Electrical	#	23	0V 1~N 50	Hz		
Fan speed	rpm	1000				
Op. current	A	0.92	1.2	2.1		
Absorbed power	kW	0.160	0.250	0.405		
Sound Lp (1)	dB(A)	51	52	62		
Net weight	kg	16.5	16	27		

Table 4: DIMENSIONS (Fig. 2 & 4)

DIMENSIONS (mm) A suspension height		3000	4500	9000
		220	580	20 580
B height overall		420	580	709
C suspension	pos.	□465	Ø495	Ø645
points	qty	4	3	3
D body dia OD		□500	Ø475	Ø639
E overall diameter			515	665

MAXIMIZOR 4500 - 9000

Louvre settings

Fig. 1a: Maximizor 4500

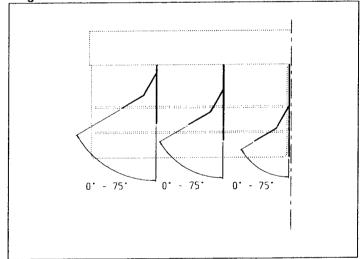
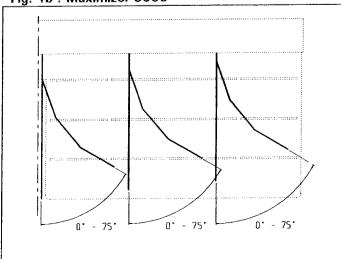
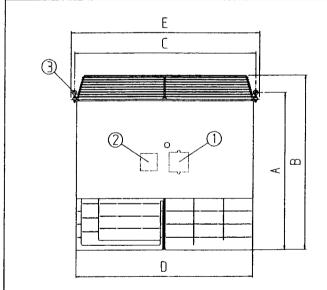


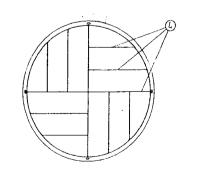
Fig. 1b: Maximizor 9000



DIMENSIONS

Fig. 2





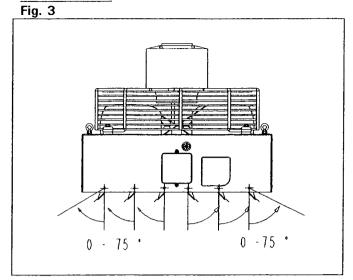
Legend

- ① Electrical terminations
- ② Control thermostat
- 3 Suspension eye bolts dia 8.0mm
 - Adjustable louvres

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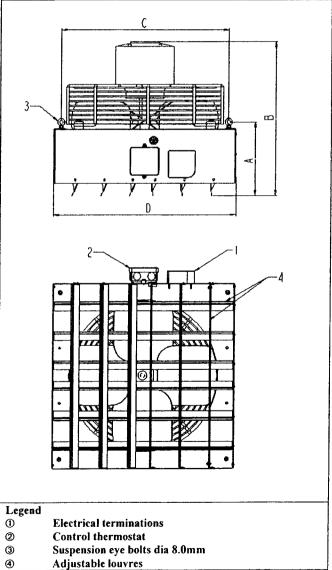
MAXIMIZOR 3000

LOUVRE SETTING



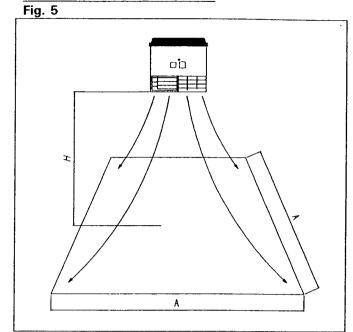
DIMENSIONS



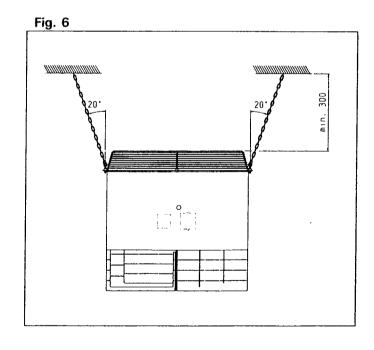


FLOOR PATTERN

MAXIMIZOR 3000,4500 & 9000



SUSPENSION CRITERIA



Subject to modifications without prior notice

