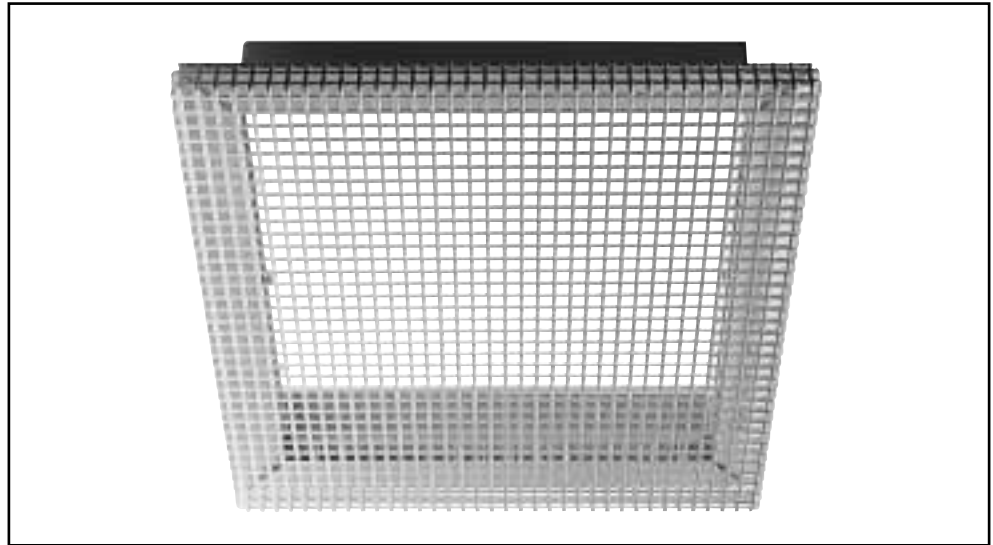


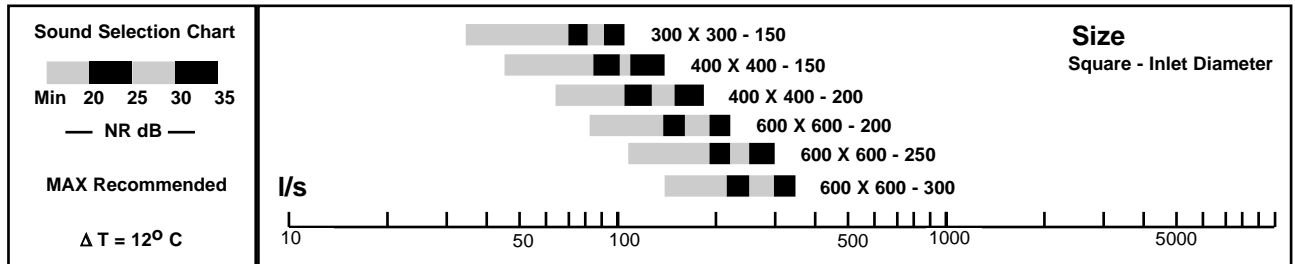


ENVIRONMENT 2000 DIFFUSER

2.65
APMF



Selection Guide



Ordering procedure

Using the chart below, select your requirements and substitute the underscored text below.

APMF.X.C.B

Example: If your requirement is for a 400mm square diffuser with an inlet dia. of 200mm, 2-way corner blow, the ordering code would be: **APMF1608C**. When ordering it is not necessary to include the periods (..).

Product Size Numbers												
"Type"	"X" Size	Inlet dia. "C"				Blow pattern "B"					Colour	
		06 (150)	08 (200)	10 (250)	12 (300)	1 Way	2 Way	3 Way	4 Way	Corner Blow		
APMF	12 (300)										C	Powder coat white
	16 (400)										C	
	24 (600)										C	
												Special colours

Note! Shaded areas indicate standard product.

2.65

APMF

ENVIRONMENT 2000 DIFFUSER



Description

The 2.65 (APMF) diffuser has been designed for air conditioning systems where a draught free, quiet and pleasant atmosphere is required. They are especially suited for variable air volume systems.

Through slots around the perimeter of the diffuser a primary air stream is projected along the ceiling. The volume of air out of these slots may be controlled by using the 3 position adjustment available at the face of the diffuser.

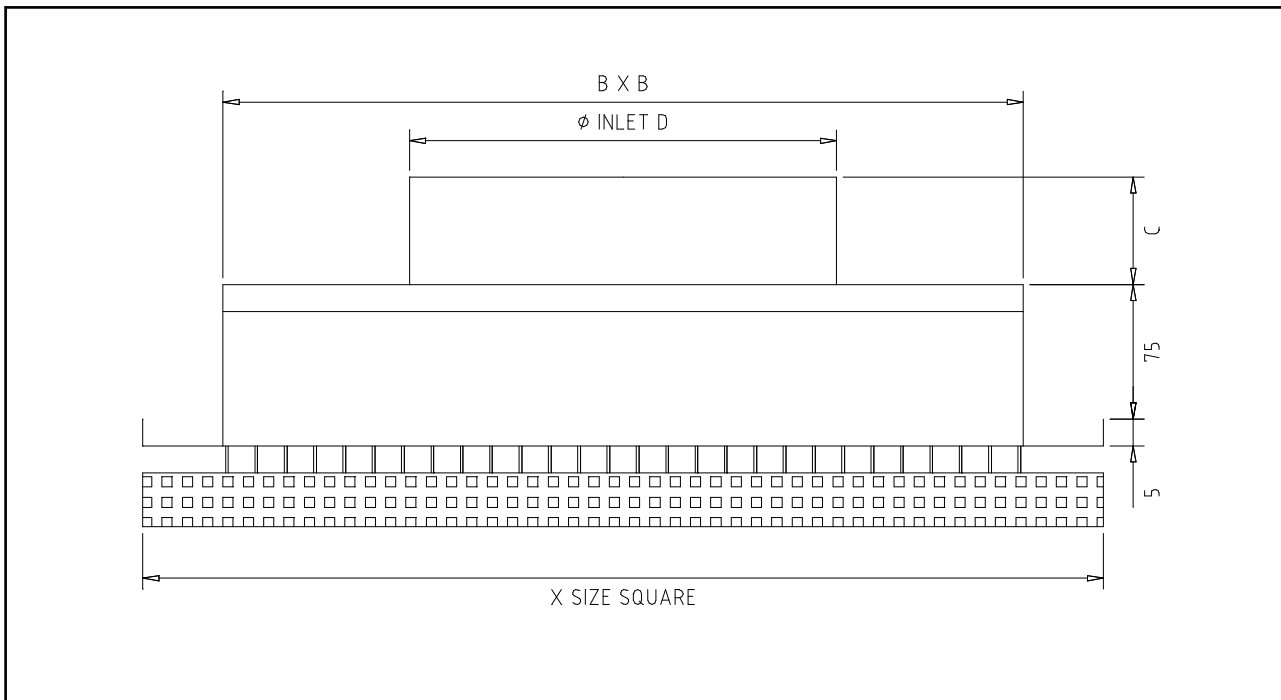
The diffuser is manufactured to match the 2.64 and 2.66 models in appearance.

The air pattern is fully radial and may also be supplied in either 1, 2 or 3-way patterns.

Finish

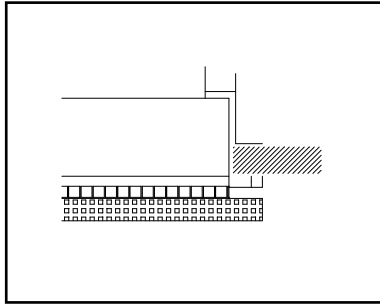
The standard finish is white unless otherwise specified.

There are 15 other standard colours available.

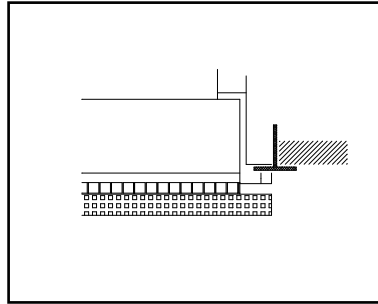


Size	X	B	C	ϕ D
A 300 - 150	300	255	100	150
B 400 - 150	400	355	100	150
C 400 - 200	400	355	100	200
D 600 - 200	600	555	100	200
E 600 - 250	600	555	100	250
F 600 - 300	600	555	100	300

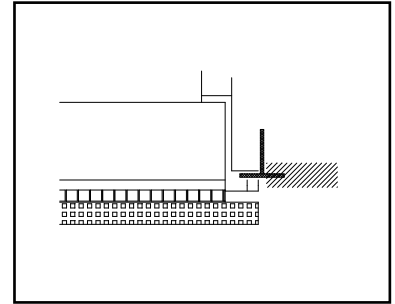
Applications



Plaster ceiling



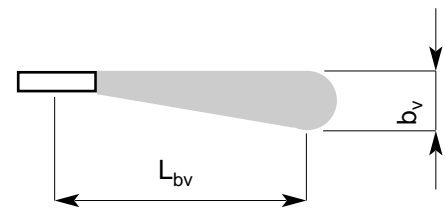
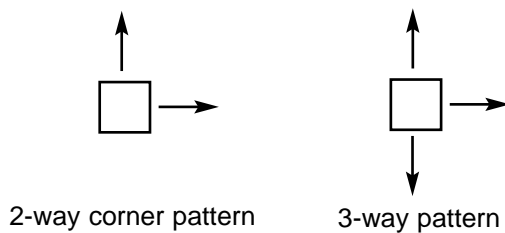
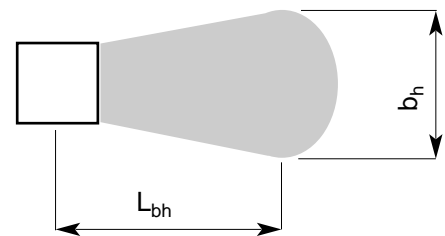
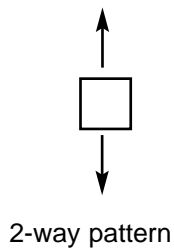
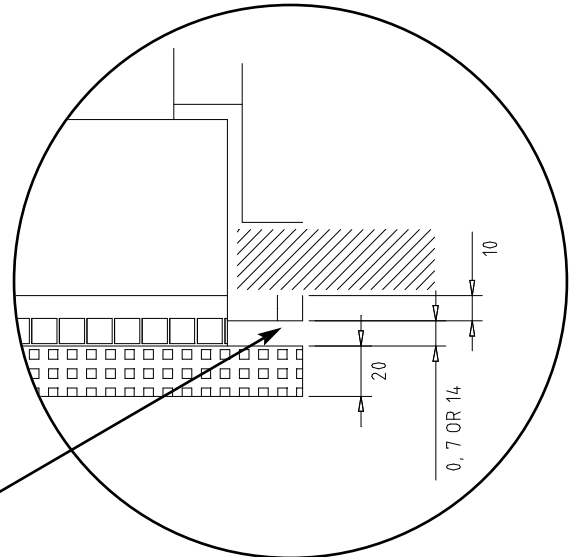
Exposed T-Bar



Concealed T-Bar

Perforated centre core can be adjusted to any one of three positions from face side of grille.

0 mm, 7mm & 14 mm
Adjustable gap



Refer to next page for formulas to determine the isothermal air pattern.

2.65

APMF

ENVIRONMENT 2000 DIFFUSER



Adjustable throw

The throw may be adjusted according to the following table by raising or lowering the diffuser fascia panel.

Perimeter Slot	Multiply Throw by:
0 mm	1.2
7 mm	1.1
14 mm	1

Sound absorption ΔL dB

The sound absorption shown relates to a reduction of the sound power level calculated from duct to room. The end reflection is included in the values.

Size	Frequency (cycles per second)						
	125	250	500	1000	2000	4000	8000
150	13	8	4	3	1	1	0
200	11	6	3	2	1	0	0
250	10	5	2	1	1	0	0
300	8	4	1	1	0	0	0
Tol +/-	2	2	2	2	2	2	2

Factors for different patterns.

	4-Way	3-Way	2-Way	2-Way Corner	1-Way
$b_h = L_{0.3} \times$	-	0.40	1.00	0.50	0.90
$L_{bh} = L_{0.3} \times$	-	0.40	0.50	0.40	0.30
$b_v = L_{0.3} \times$	0.05	0.05	0.05	0.05	0.06
$L_{bv} = L_{0.3} \times$	0.40	0.40	0.40	0.40	0.40

L_{bh} = distance from diffuser to maximum spread.
 b_v = vertical spread
 b_h = horizontal spread

Sound data

NR levels for the grille may be determined from the engineering graph.

Sound power level L_w

The generated sound power level L_w dB is calculated by adding the correction factor K_{Ok} (see table below) to the sound level NR dB according to the formula:

$$L_w = NR + K_{Ok}$$

Size	Frequency (cycles per second)						
	125	250	500	1000	2000	4000	8000
150	-3	-4	-1	+2	-2	-12	-19
200	-4	-5	-1	+2	-3	-16	-21
250	-4	-6	-1	+2	-6	-18	-21
300	-4	-6	-1	+2	-5	-19	-21
Tol +/-	2	2	2	2	2	2	2

Correction factor K_{Ok}



ENVIRONMENT 2000 DIFFUSER

2.65
APMF

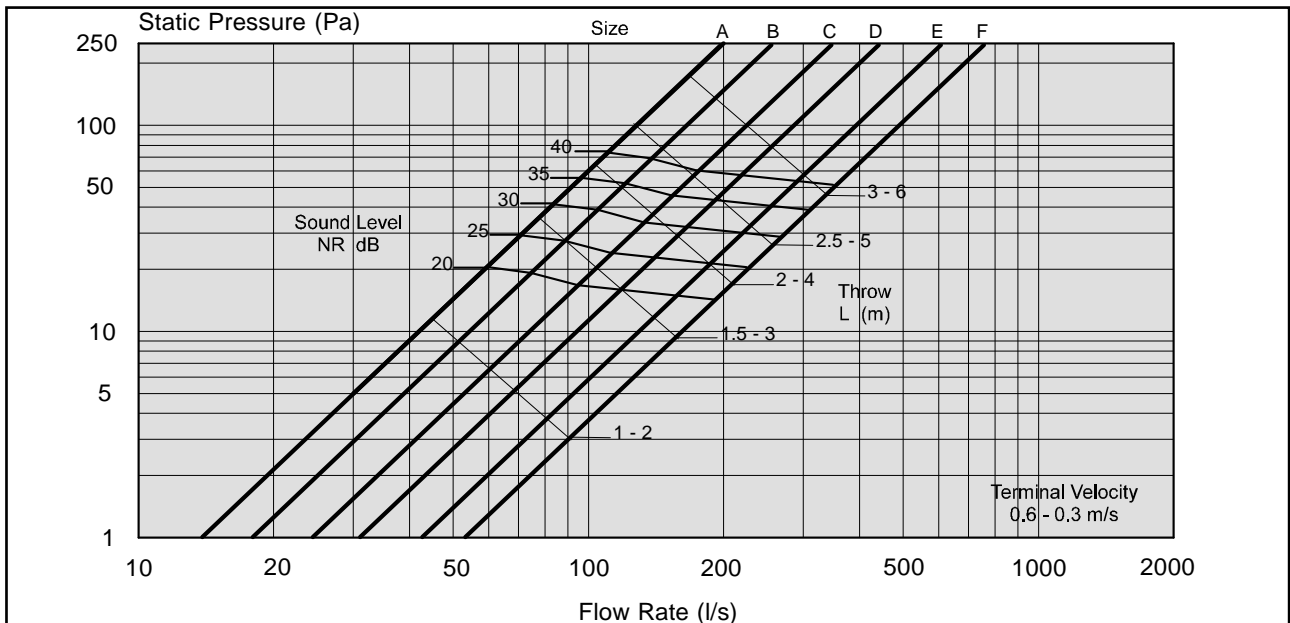
Engineering Graphs

Throws shown are to a terminal velocity of 0.60 m/s and 0.30 m/s.

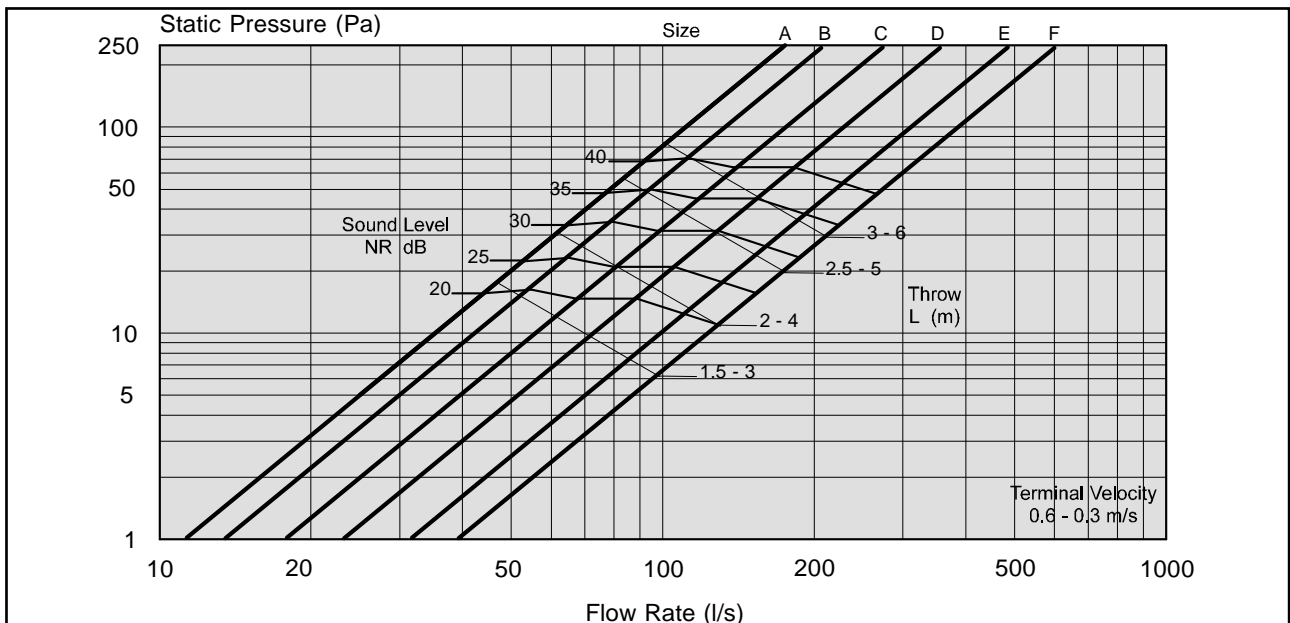
Terminal velocity	Approximate air velocity in room
0.60 m/s	0.30 m/s
0.30 m/s	0.15 m/s

These graphs are for selection only and should not be used for commissioning.

APMF 2-way blow



APMF 1-way blow



2.65

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ENVIRONMENT 2000 DIFFUSER



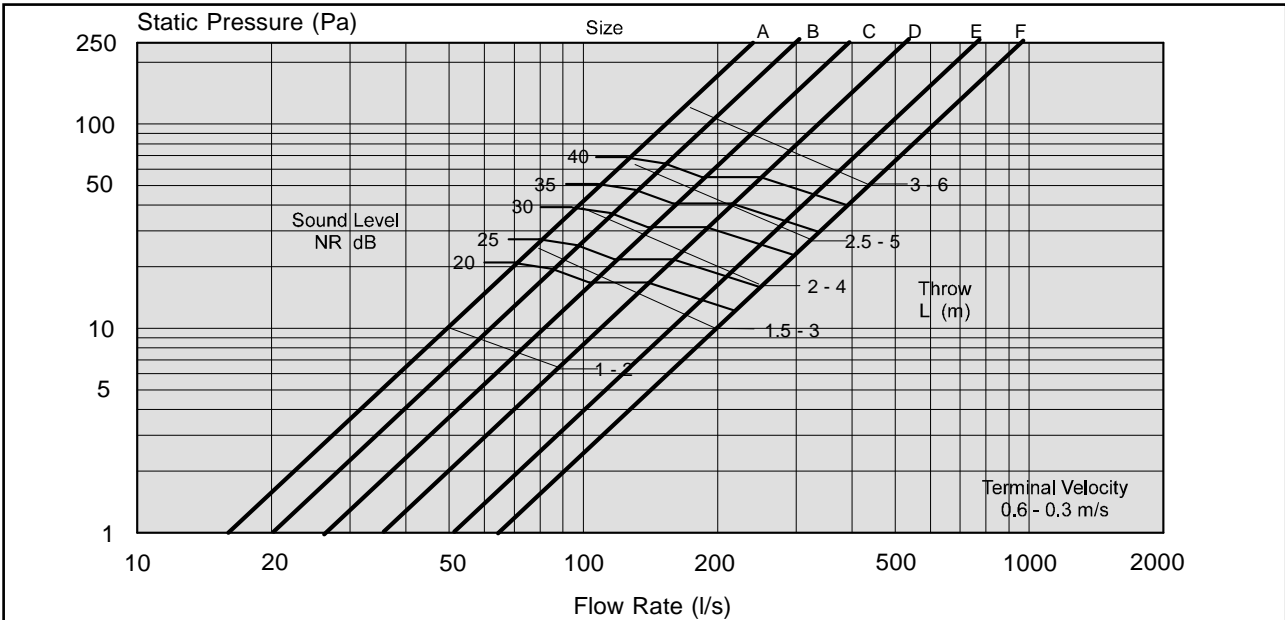
Engineering Graphs

Throws shown are to a terminal velocity of 0.60 m/s and 0.30 m/s.

Terminal velocity	Approximate air velocity in room
0.60 m/s	0.30 m/s
0.30 m/s	0.15 m/s

These graphs are for selection only and should not be used for commissioning.

APMF 4-way blow



APMF 3-way blow

