



E N G I N E E R E D A I R P R O D U C T S

CIRCULAR DIFFUSERS
LMR SERIES



LMR
SERIES

L SERIES

CIRCULAR DIFFUSERS

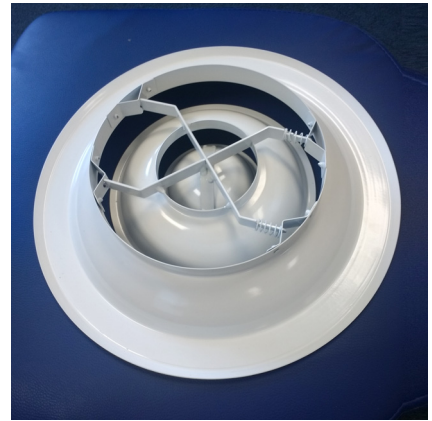


Application

Colman's LMR range of aluminium circular diffusers have been designed to provide an attractive and flexible solution to a wide variety of air distribution requirements.

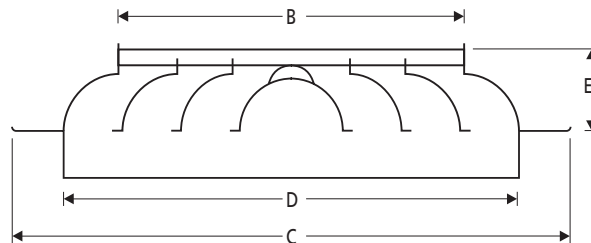
Description and Finish

The units are available from 150mm neck up to 400mm neck and are manufactured from spun aluminium. White RAL9010 is the standard finish option but other finishes are available on request.



ADJUSTMENT/DIMENSIONS

Diffuser Dimensions



A Nominal Size (Spigot Diameter) (mm)	B Diameter of Installation Opening (mm)	C Overall Diameter (mm)	D Cone Diameter (mm)	E Diffuser Height (mm)
150	148	300	230	65
200	198	350	280	65
250	248	400	335	65
300	299	450	380	65
350	348	500	425	65
400	398	560	495	65

PERFORMANCE DATA

Nominal Size	Volume (l/s)	Neck Velocity	Pressure Drop (Pa)	Throw to 0.5 m/s Velocity (m)	Noise Rating (NR)
150	20	1.13	2	0.4	<10
	30	1.70	4	0.7	<10
	40	2.25	10	1.1	12
	50	2.80	16	1.4	25
	60	3.40	18	1.9	37
200	40	1.27	3	0.8	<10
	50	1.60	5	1.0	12
	60	1.90	8	1.4	21
	70	2.20	12	1.7	30
	80	2.55	15	2.0	36
250	50	1.02	2	0.8	<10
	60	1.22	4	1.0	15
	75	1.53	6	1.3	24
	85	1.73	8	1.5	28
	100	2.04	12	1.8	33
300	80	1.13	2	0.8	<10
	95	1.34	4	1.1	12
	110	1.55	7	1.3	24
	130	1.84	9	1.6	29
	150	2.12	12	2.0	34
350	100	1.1	<5	0.8	<10
	125	1.3	5	1.1	15
	150	1.6	8	1.7	22
	175	2.0	12	2.2	30
400	125	1.0	2	1.2	<10
	150	1.2	3	1.5	10
	175	1.4	5	1.8	14
	200	1.6	7	2.0	25
	225	1.8	9	2.2	29
	250	2.0	11	2.6	34

Performance figures are for diffuser only and assume supply air temperature -10 to +10 degrees C relative to room temperature.

Pressure drop shown is static pressure drop for diffuser only and does not allow for effect of plenum.

Throw value is measured horizontally to terminal velocity of 0.25 m/s and assumes ceiling effect.

Multiply throw value by 0.7 for installation without ceiling effect.

All NR ratings based on room absorption of 8 dB, dampers fully open.

OPTIONS & ORDER CODES

Options and Order Codes

Diffuser Codes

1. SERIES	2. FRAME	3. CORE	4. ACCESSORIES	5. ARRANGEMENT	6. FIXING	7. FINISH
L	M Frame 1 Special	R Circular Core 1 Special	0 None 1 Special	0 None 1 Special	A Screw Fixing Through Neck 1 Special	F RAL 9010 matt white 3 RAL 9006 Silver Aluminium 1 Special

LMR00AF 250 [Nominal Size]

LMR00AF 250

Nominal size 250mm diameter (connection spigot diameter).
Standard diffuser finish: Powder coated white RAL 9010 matt.

Plenum Codes

1. SERIES	2. LINING	3. TYPE	4. ACCESSORIES	5. ARRANGEMENT	6. SPIGOT TYPE	7. SPIGOT DIAMETER
L	L Lined N Unlined	S Square C Circular	0 None M Monoblade cord operated damper	S Supply (comes with equalising grids) E Extract	R Round — Side entry S Square — Side entry T Round — Top entry U Square — Top entry 1 Special	A 100 J 450 B 125 L 160 C 150 T 175 D 200 M 180 E 250 R 225 F 300 P 280 G 350 N 315 H 400 1 Special

Please contact the Sales Office for Plenum dimensions.

PRODUCT RANGES

GRILLES	DIFFUSERS	LOUVRES
Linear Bar	Linear Slot	External
Ceiling	Louvre Face	Circular
Sidewall	Sidewall	Door
Floor	Perforated Face	Screens
Computer Floor	Circular	Penthouse
Cill	Swirl	Sand Louvres
Single & Double Deflection	Ceiling	Roof Louvres
Egg Crate	Sidewall Fixed & Adjustable	
Hinged Core	Jet Flow / Nozzle	
Door Transfer	Repus Displacement Ventilation	
Security and Prison		
Supply and Extract Valves		

BESPOKE SERVICE

We offer a bespoke design service where standard products do not fit the requirements of the build, we also supply products in special colours and finishes including bronze, brass, gold and chrome to meet Architectural design specifications.



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We reserve the right to alter specifications without notice and products will sometimes be supplied with modifications which do not strictly comply with the descriptions and illustrations in this publication.