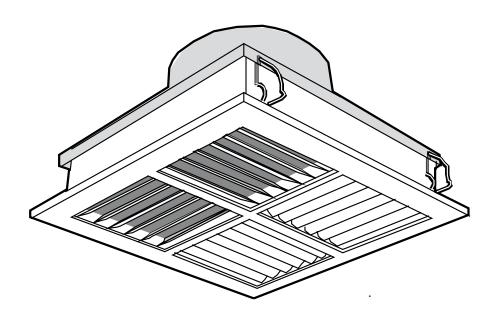
MDO Multi-Directional Outlet





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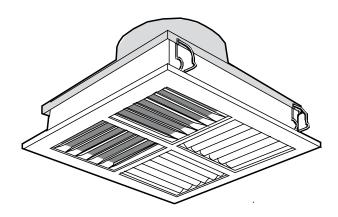
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MDO SERIES

Multi-Directional Outlet (Diffuser)

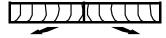


General

The MDO is designed to allow the user to control the air flow pattern in a room by simply positioning its four louvre panels to direct air flow where required. The MDO diffuser is a versatile choice for most rooms including those with sloping ceilings or unusual shape.

Operation

The curved shape of the louvre vanes is designed to enhance the diffuser performance for different applications. For the distribution of cool air, the louvre panels are set to deflect air horizontally across the ceiling.



For high ceilings and warm air distribution, the louvre panels are inverted to achieve a 40° downward air throw.

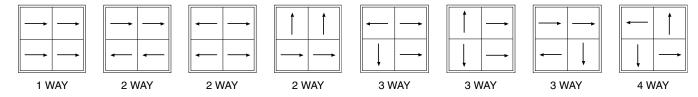


For spot cooling and heating, the louvre panels oppose each other for a vertical down air throw.



Air Flow Patterns

The MDO Diffuser's four louvre panels are simply positioned to direct air flow where required.



Construction

The MDO is constructed of clean white tough polypropylene which is lightweight, easy to clean and suits most room decors.

Installation

For plasterboard or similar ceilings, an installation kit containing four spring steel securing clips is available.

Sizes

The MDO is available ex stock in two sizes: 230 x 230 mm neck (265 x 265 mm face)

300 x 300 mm neck (335 x 335 mm face)

MDO DIFFUSER

MDO Performance Data

230 x 230 mm Neck (265 x 265 mm Face)

Air	Static	OCTAVE BAND CENTRE FREQUENCY Hz							1-Way	2-Way	4-Way	
Flow	Pressure	125	250	500	1000	2000	4000	NR	SPL	Throw	Throw	Throw
l/s	Pa	SOUND POWER LEVELS (SWL) dB						dB(A)	m	m	m	
50	2	46	38	34	31	-	-	23	28	2.8	2.2	1.9
100	9	49	42	40	39	24	-	31	35	4.1	3.5	2.8
150	20	53	48	46	46	36	28	38	41	5.0	4.4	3.4
200	36	56	53	51	51	45	37	43	46	5.9	4.9	3.7
250	57	59	58	55	55	51	43	47	51	6.2	5.3	4.1

300 x 300 mm Neck (335 x 335 mm Face)

Air	Static	OCTAVE BAND CENTRE FREQUENCY Hz							1-Way	2-Way	4-Way	
Flow	Pressure	125	250	500	1000	2000	4000	NR	SPL	Throw	Throw	Throw
l/s	Pa		SOUND POWER LEVELS (SWL) dB						dB(A)	m	m	m
50	1	-	-	-	-	1	-	-	-	2.4	2.0	1.4
100	4	45	36	28	18	-	-	17	24	3.6	3.0	2.2
150	8	48	40	36	31	-	-	23	30	4.6	3.8	2.7
200	15	52	45	43	44	30	21	36	38	5.3	4.4	3.2
250	23	55	50	48	49	40	31	41	44	5.8	4.8	3.5
300	33	59	56	54	54	49	41	46	50	6.0	5.0	3.6
350	44	62	59	57	57	54	46	49	53	6.2	5.2	3.7
400	58	65	63	60	60	58	51	53	57	6.4	5.3	3.8

Performance Data Notes

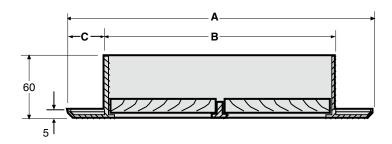
Sound Power Levels (SWL) measured in decibels re 1 pW. Sound Pressure Levels (SPL) measured in dB(A) re 20 μ Pa, and Noise Rating (NR) calculated with 8 dB deducted for typical room absorption effect. Within the limits of measurement, noise levels and static pressures were identical for 1, 2, 4 way patterns. All tests were done with acoustic flexible duct above a false ceiling.

Static pressures were measured within the nominal diameter section of the metal hood.

Throw measured per ISO-1984 (B): "The maximum distance from the centre of the core and a plane which is tangential to the 0.5 m/s envelope, and perpendicular to the intended direction of the flow."

Dimensions (mm)

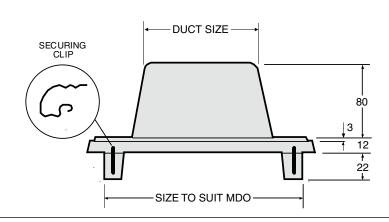
SIZE	Α	В	С
230 sq.	265	224	20
300 sq.	335	292	22



Square-to-Round Adaptors

STOCK SIZES						
230 sq.	/	150 dia.				
230 sq.	/	200 dia.				
300 sq.	/	200 dia.				
300 sq.	/	250 dia.				

Dimensions in millimetres



SUGGESTED SPECIFICATION

MDO Multi-Directional Outlet (Diffuser)

Multi-Directional diffusers shall be of polypropylene construction frame and cores. Cores shall be removable to allow the installer to select an air pattern to suit the location. A square to round adaptor shall be supplied with each diffuser, sized to suit standard flexible ducting.