

Drum Louvres

Type ALL



Design to deliver a high volume of supply air to a space that requires long throw such as assembly halls, auditoriums and convention halls.

- Can be installed onto walls or, mounted directly to metal
- Supplied with opposed blade volume control damper fitted to the rear and is easily adjustable from the face of the drum louver

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General specification

This drum louvre can be manually adjusted in the vertical plain to direct the supply air at any angle between 30° upward and 30° downward direction. Once it is set at a particular angle, it is held at that position by means of friction-held fixings. It is also fitted with manually adjustable guide vanes within drum louvre to enable the supply airstream to be directed on either side if required.

This drum louvre has been tested in ISO 9000 certified test facilities to international standards, ISO 5219 and ISO 3741, to determine the aerodynamic and acoustics performance data respectively as published in this catalogue.

Type AIL

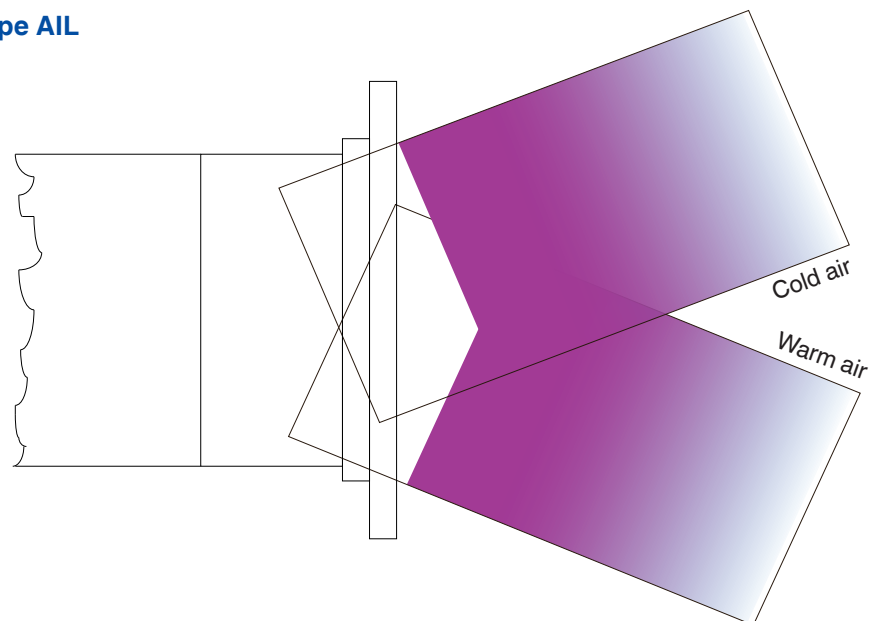


Table 1: Standard AIL Dimensions

Type 'AIL'

This unit comprises of an aluminium drum section with a 50 mm wide border, made from extruded aluminium sections. The 'AIL' drum louvre is designed to be installed to the walls or directly onto sheet metal ductwork.

The drum louvre is adjustable between 30° upward and 30° downward direction as shown below (i.e, with up to 60° angle adjustment in the vertical plain.)

The guide vanes within the drum louvre are manually adjustable in the lateral direction to enable the supply airstream to be directed side way.

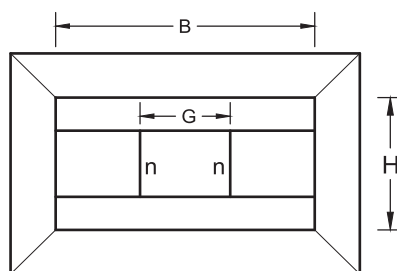
Opposed blade volume control damper can be provided to the rear of each drum louvre as an optional extra, if required. This damper is manually adjustable from the face of the drum louvre. The damper is painted in black to RAL 9005.

Size	B	H	G	D	F	n	E
1	250	150	75	81	40	2	104
2	300	150	75	81	40	3	104
3	475	150	75	81	40	5	104
4	625	150	75	81	40	7	104
5	500	250	125	150	60	3	104
6	650	250	125	150	60	4	104
7	750	250	125	150	60	5	104
8	900	250	125	150	60	6	104

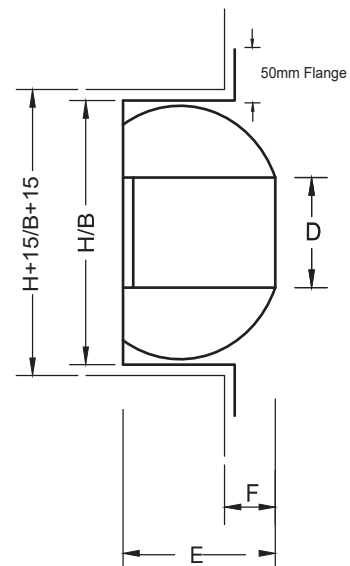
Note

The number of guide vanes in the louver is represented by 'n' in the table alone

Diagram 2



Face view



Cross-sectional view

Note

The selection below is based on NC 35 or 40 dB (A) with a room attenuation of 6 dB

Size	Flow (l/s)	Flow (m ³ /h)	Throw (m)		Drop (m) @ 0.5 m/s & Δt-10k	Δ P (Pa)
			0.50 m/s	0.25 m/s		
1	214	770	8.0	19	0.50	110
2	311	1120	10.0	24	0.80	120
3	403	1450	11.5	27	1.00	125
4	583	2100	13.5	31	2.00	135
5	639	2300	10.0	24	0.85	110
6	792	2850	12.0	27	1.35	120
7	1014	3650	13.5	31	1.60	125
8	1222	4400	15.0	35	2.40	135

Order code

AIL - A / 3 / 0 / S1 / RAL 9010



1	Type	3	Flange option
A	Louvre face only	0	50 mm wide flange (Standard supply)
AG	Louvre with volume control damper	1	50 mm wide flange with counter punched holes
2	Unit size	4	Powder coating colour
	Size ranging from 1 to 8	0	RAL 9010 in white (Standard supply)
		S1	Non-standard RAL colour, RAL colour should be stated as shown

Order example

Order example : AIL - A / 3 / 0 / S1 / RAL 9010

Type	Louvre face only
Unit size	3
Flange option	0
Fixing requirement	0
Powder coating	White RAL 9010

General specification

This drum louvre is designed to deliver large volume of supply air with long throw, suited for assembly halls, auditoriums, convention halls or, any enclosed space with wide open spaces. The drum louvre can be installed onto walls or, mounted directly to supply air ductwork.

It has an aluminium drum section with 50 mm wide border, all made out of extruded aluminium. The drum louvre can be adjusted only in the vertical plain, set to any angle between 30° upward and 30° downward direction (i.e., with up to 60° angle of adjustment). Internal guide vanes are manually adjusted from the face in the lateral direction to enable the supply air directed to the side, if required.

The drum louvre can be supplied with opposed blade volume control damper, if requested. It is fitted to the rear of the drum louvre and is adjustable from the face.

The drum louvre is powder coated in matt white to RAL 9010 as a standard supply and, the damper is painted black to RAL 9005, if required.

The drum louvre has been tested to ISO 5219 and ISO 3741, to determine the aerodynamic and acoustic performance as published in this catalogue.