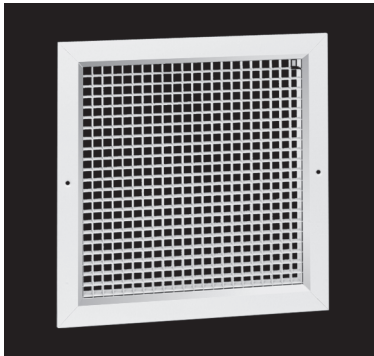


Air Diffusion

Model ECG Egg Crate Grilles



Model EC - RAL 9010 20% Gloss



Model OBD

Description

Model EC egg crate grille incorporates a 12.5mm lattice style high free area core in fixed core versions. The grille is suitable for sidewall, soffit or ceiling mounting and is normally used for extract applications. Typical installations include offices, shops, hotels, restaurants, schools and most commercial or industrial buildings.

Available as standard in white RAL 9010 20% polyester powder coat finish.

Standard fixing is with No. 8 countersunk headed screws (BY OTHERS) using prepared countersunk screw holes in flange.

An optional opposed blade damper can be fitted to the rear of the grille and adjusted through the grille core.

Specification

Material

Extruded aluminium sections

Construction

25mm flange frame with corners mitred and welded.

The fixed core is located within the outer frame extrusion and retained in situ by the flange frame.

Installation Methods

F1– Countersunk Screw Holes in Flange (Standard).

Accessories

Available fitted with opposed blade damper adjusted through the grille core.

Finish

83 – White (RAL9010) 20% gloss powder coat (Standard).

Model Types

Model ECG – is supplied as a grille only with a fixed core.

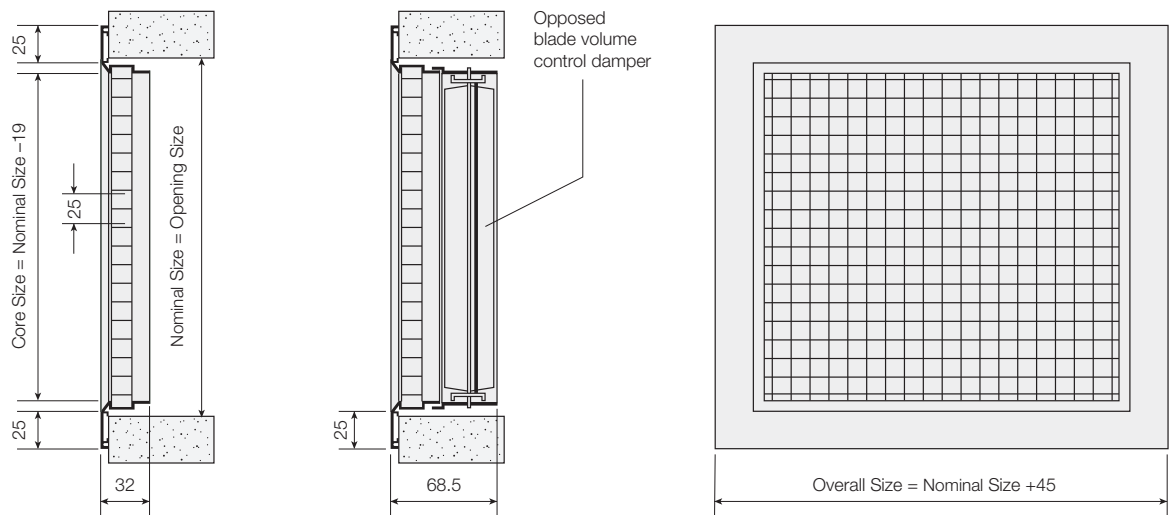
Model ECR – is supplied as a grille having fixed core and fitted with an OBD.

Nominal Dimensions

Sizes are 150mm x 150mm, 300 x 300 and 550 x 550.

Dimensions

Fixed Core (25mm Flange)



Quick Selection Performance Tables for Standard Sizes

Nominal Size w x h		Performance							
150 x 150	Air Volume	l/s	40	50	60	70	80	90	100
	Velocity	m/s	1.5	1.75	2.3	2.75	3.0	3.5	3.9
	Noise Level	NR	-	12	18	21	24	28	30
	Pressure Loss	Pa	-	5	7	11	18	22	28
300 x 300	Air Volume	l/s	80	90	100	150	200	250	300
	Velocity	m/s	0.75	0.9	1.1	1.5	2.1	2.8	3.2
	Noise Level	NR	-	-	-	15	21	28	32
	Pressure Loss	Pa	-	-	-	-	7	13	21
550 x 550	Air Volume	l/s	250	300	400	500	600	700	800
595 x 595	Velocity	m/s	0.75	1.0	1.5	1.8	2.2	2.5	2.8
Overall	Noise Level	NR	-	11	18	23	26	28	33
	Pressure Loss	Pa	-	-	-	-	7	9	15

Performance Notes

The tables are based on the grille being used for extract purposes.

The total pressure losses given are for the grille fitted with a fully open damper. For grilles without dampers a 10% reduction may be applied.

The noise rating levels include for a grille fitted with a fully open damper. For grilles without dampers a 2 dB reduction may be applied. The effect of part closing a damper will significantly add to the noise rating levels. A dash (-) in space indicates a noise ratings level lower than 10 NR.

Where a dash (-) in space is shown this indicates a Pressure Loss less than 5 Pa. For other performance or selection details please contact the sales office.

Ordering Information

Example

Flange Style	Model	Damper	Fixing	Finish	Size
25W	ECG	R	F1	83	
25W – 25mm wide flat flange (Standard).	ECG – Eggcrate Grille	G – Grille only. R – Grille with OBD fitted.	F1 – Countersunk screw holes in flange.	83 – White Polyester Powder Coat to RAL 9010 (20%Gloss).	See Page above

Important Note:

If the overall size is critical then it must be clearly stated on the order.
All orders must be addressed to AIR DIFFUSION, Ruskin Air Management Limited.

Comprehensive and detailed information is available for all Air Diffusion products. Visit our website at www.air-diffusion.co.uk