



GRILLES & LOUVRES

EGG-CRATE  
RETURN AIR GRILLE

# EGG-CRATE RETURN AIR GRILLE RAG-EC

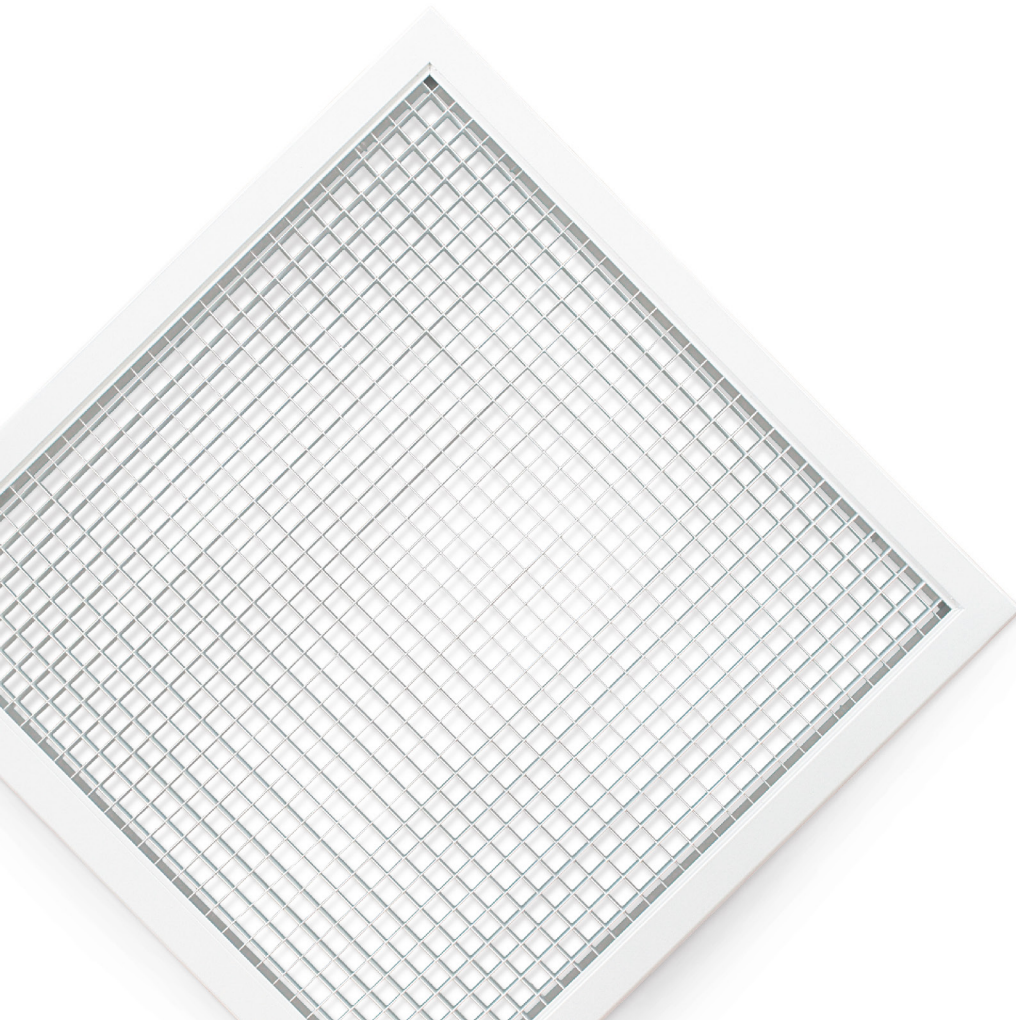
Different requirements and designs expect application of different types of air grille. Egg-crate Return Air Grilles generally are grilles of largest free area with extremely low pressure loss.

## DESIGN & CONSTRUCTION

ADF Egg-crate Return Air Grille is smart and neat looking. It consists of an outer frame of standard width and inner hollow core of 20 mm x 20 mm x 20 mm crate pattern in Galvanised Steel or Aluminium construction. Alternatively, plastic centre core construction also available with 12.5 mm x 12.5 mm x 12.5 mm crate pattern.

## FEATURES

- Largest free area for air flow.
- Low pressure loss.
- Options of centre hollow crate can be of Galvanised Steel, Aluminium or Plastic.
- Smart and neat appearance blends well with modern interior and ceiling design.
- Applicable to ceiling and sidewall extract or return air system installation.

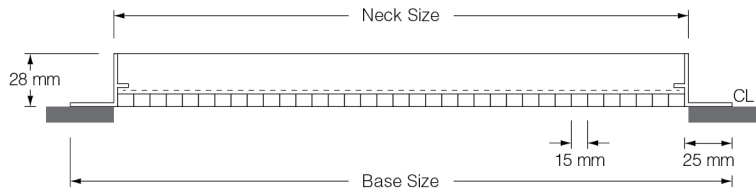


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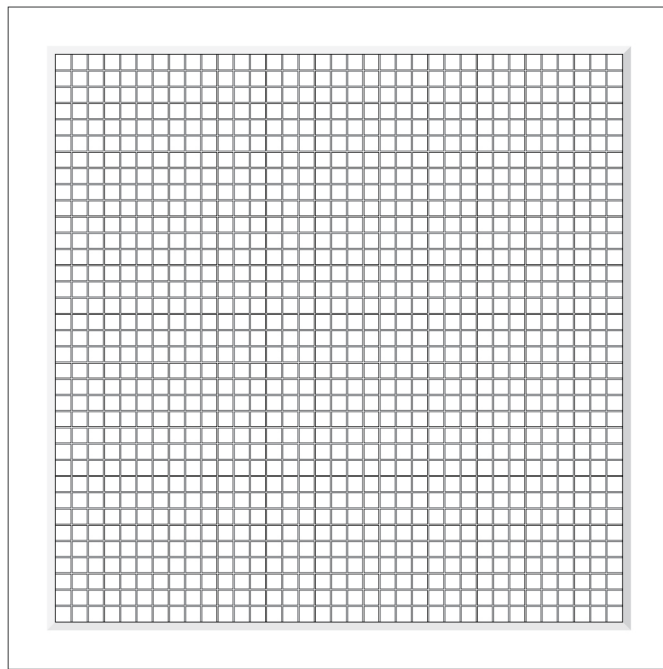
Model RAG-EC

## PHYSICAL DIMENSION AND MOUNTING GUIDE

### Lay-on Mounting



### Flush Mounting



Base Size		Neck Size / Ceiling Opening Size		Gross Face Area		Effective Free Air Area	
mm	inch	mm	inch	M <sup>2</sup>	FT <sup>2</sup>	M <sup>2</sup>	FT <sup>2</sup>
300 x 300	12 x 12	250 x 250	10 x 10	0.0625	0.694	0.055	0.611
400 x 400	16 x 16	350 x 350	14 x 14	0.1225	1.361	0.108	1.198
600 x 300	24 x 12	550 x 250	22 x 10	0.1375	1.528	0.121	1.345
600 x 600	24 x 24	550 x 550	22 x 22	0.3025	3.361	0.266	2.958
1200 x 600	48 x 24	1150 x 550	46 x 22	0.6325	7.028	0.557	6.185

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## PERFORMANCE DATA

Neck Velocity, m/s		1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0
Neck Size mm x mm	Negative $\Delta P$ Pa	3	6	9	12	17	22	33	48	65
	300 x 300	l/s	127	170	212	255	297	340	425	510
NR		10	12	14	20	25	30	37	43	48
400 x 400	l/s	230	290	365	436	509	582	727	873	1018
	NR	10	13	20	26	31	36	43	49	54
600 x 300	l/s	255	340	425	510	595	680	850	1020	1145
	NR	11	14	17	23	28	33	40	46	51
600 x 600	l/s	492	656	820	985	1150	1312	1640	1969	2297
	NR	11	13	20	26	31	36	43	49	54
1200 x 600	l/s	855	1140	1420	1705	1988	2275	2840	3410	3980
	NR	12	15	22	28	33	38	45	51	56