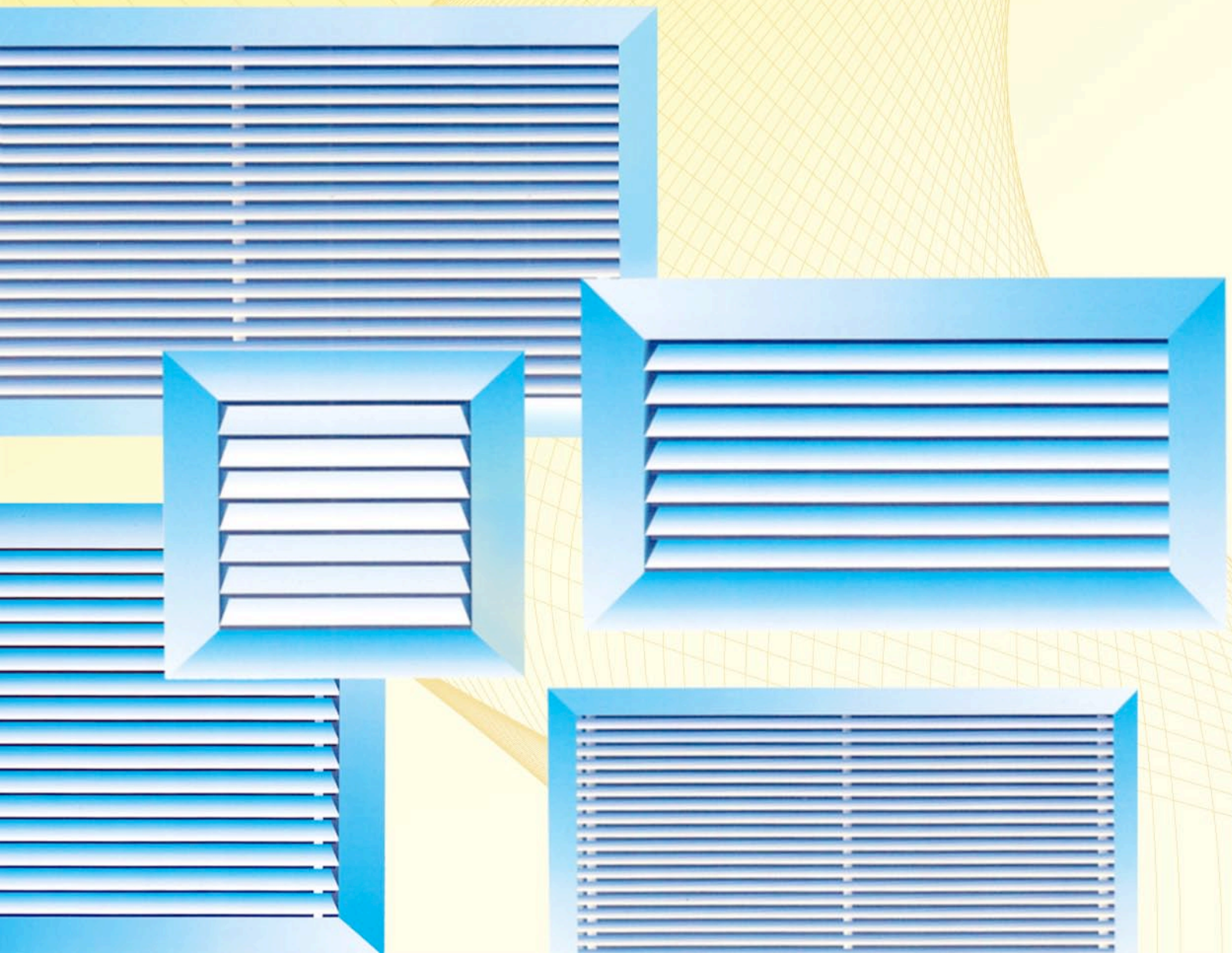
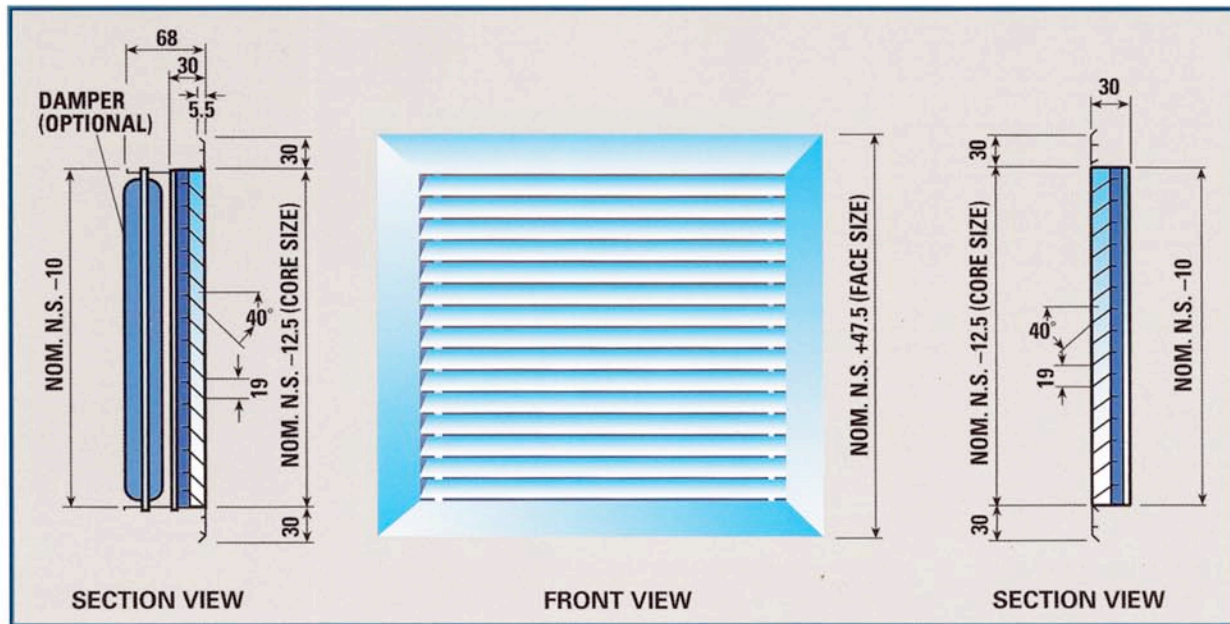


CONNOLS-AIR

FIXED BLADE RETURN AIR GRILLE



FIXED BLADE RETURN AIR GRILLE MODEL R240H and R240V



CONSTRUCTION

The frames and blades are constructed of heavy gauge extruded aluminum alloy 6063 tempered to T5. Blades are fixed to vertical supports at 40° angle deflection and 19mm spacing. The frames are assembled using corner inserts.

FEATURES

- Frames and blades are constructed of corrosion resistance aluminum alloy 6063 tempered to T5.
- Frames corner inserts ensure hairline butting of frames.
- Blades with 40° angle fixed at 19mm spacing provide high percent free area.
- Concealed blade support provides a streamlined appearance.
- Opposed blade damper can be easily adjusted from the face of the grille.
- Reliable performance data available for design and selection.
- Standard finish is baked white enamel, other colours are available upon request.

FIGURE 1: PERFORMANCE

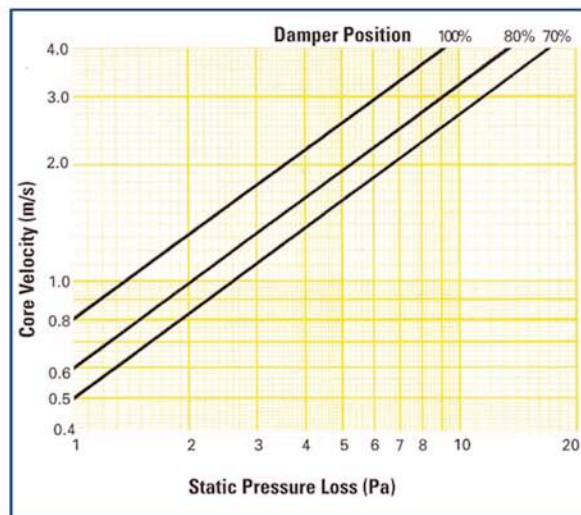


TABLE 1: EFFECT OF DAMPER CLOSURE ON GENERATED NOISE

Effective Opening	dB to be added
100%	0
80%	5
70%	8

Performance Data • Model: R240H and R240V

Flow (cmh)	Nom. Neck Size		Press Loss (Pa)	NC	Flow (cmh)	Nom. Neck Size		Press Loss (Pa)	NC	Flow (cmh)	Nom. Neck Size		Press Loss (Pa)	NC	Flow (cmh)	Nom. Neck Size		Press Loss (Pa)	NC
	W (mm)	H (mm)				W (mm)	H (mm)				W (mm)	H (mm)				W (mm)	H (mm)		
100	150	x 150	*	21	1400	400	x 400	9	34	2400	450	x 450	19	38	3600	600	x 600	16	37
	200	x 150	*	-		450	x 450	6	31		600	x 300	25	40		900	x 300	28	41
150	150	x 150	*	26		500	x 500	*	28		600	x 600	6	31		900	x 600	7	32
	200	x 150	*	23		600	x 300	7	32		900	x 300	11	35		1200	x 300	16	37
200	150	x 150	5	30		600	x 600	*	24		900	x 600	*	26		1200	x 600	*	28
	200	x 150	*	27		900	x 300	*	27		1200	x 300	6	31		1200	x 900	*	23
300	150	x 150	13	36		900	x 600	*	-		1200	x 600	*	23		1200	x 1200	*	20
	200	x 150	7	33		1200	x 300	*	24		1200	x 900	*	-		600	x 600	18	38
	200	x 200	*	29		1200	x 600	*	-	2600	450	x 450	23	40	3800	900	x 300	32	41
	300	x 150	*	28		400	x 400	12	36		600	x 300	30	41		900	x 600	8	33
	300	x 300	*	-		450	x 450	8	33		600	x 600	7	32		1200	x 300	18	38
400	150	x 150	26	40	1600	500	x 500	*	30		900	x 300	13	36		1200	x 600	*	29
	200	x 200	8	33		600	x 300	10	34		900	x 600	*	27		1200	x 900	*	24
	300	x 200	*	28		600	x 600	*	26		1200	x 300	7	32		1200	x 1200	*	21
	300	x 300	*	23		900	x 300	*	29		1200	x 600	*	24	4000	600	x 600	20	39
	400	x 400	*	-		900	x 600	*	21		1200	x 900	*	-		900	x 300	36	42
500	200	x 200	14	36		1200	x 300	*	26	2800	450	x 450	28	41		900	x 600	9	34
	300	x 300	*	26		1200	x 600	*	-		600	x 300	35	42		1200	x 300	20	39
	400	x 400	*	-		400	x 400	16	37		600	x 600	9	34		1200	x 600	*	30
600	200	x 200	21	39		450	x 450	10	34		900	x 300	15	37		1200	x 900	*	25
	300	x 300	*	29		500	x 500	6	32		900	x 600	*	28	4200	1200	x 1200	*	21
	400	x 400	*	22		600	x 300	13	36		1200	x 300	9	34		600	x 600	22	39
	450	x 450	*	-	1800	600	x 600	*	27		1200	x 600	*	25		900	x 300	40	43
						900	x 300	6	31		1200	x 900	*	20		900	x 600	10	34
800	300	x 300	8	33		900	x 600	*	22		1200	x 1200	*	-		1200	x 300	22	39
	400	x 200	10	34		1200	x 300	*	27	3000	600	x 600	10	34		1200	x 600	5	31
	400	x 400	*	26		1200	x 600	*	-		900	x 300	18	38		1200	x 900	*	26
	450	x 450	*	23		400	x 400	20	39		900	x 600	*	29		1200	x 1200	*	22
	500	x 500	*	20		450	x 450	13	36		1200	x 300	10	34	4400	600	x 600	25	40
	600	x 300	*	24		500	x 500	8	33		1200	x 600	*	26		900	x 300	44	44
	600	x 600	*	-		600	x 300	16	37		1200	x 900	*	21		900	x 600	11	35
1000	400	x 200	17	38	2000	600	x 600	*	29		1200	x 1200	*	-		1200	x 300	25	40
	400	x 400	*	29		900	x 300	7	32	3200	600	x 600	12	35		1200	x 600	6	31
	450	x 450	*	26		900	x 600	*	24		900	x 300	21	39		1200	x 900	*	26
	500	x 500	*	23		1200	x 300	*	29		900	x 600	5	30		1200	x 1200	*	23
	600	x 300	*	27		1200	x 600	*	20		1200	x 300	12	35		1500	x 600	*	29
	600	x 600	*	-		1200	x 900	*	-		1200	x 600	*	27		1500	x 900	*	23
						450	x 450	16	37	3400	1200	x 900	*	22	4600	600	x 600	27	41
1200	400	x 400	6	32		600	x 300	20	39		1200	x 1200	*	-		900	x 600	12	36
	450	x 450	*	29		600	x 600	*	30		600	x 600	14	36		1200	x 300	27	41
	500	x 500	*	26		900	x 300	9	34		900	x 300	24	40		1200	x 600	7	32
	600	x 300	*	30	2200	900	x 600	*	25		900	x 600	6	31		1200	x 900	*	27
	600	x 600	*	21		1200	x 300	*	30		1200	x 300	14	36		1200	x 1200	*	23
	900	x 300	*	25		1200	x 600	*	21		1200	x 600	*	28		1500	x 600	*	29
	900	x 600	*	-		1200	x 900	*	-		1200	x 900	*	23		1500	x 900	*	24
	1200	x 300	*	21		1200	x 1200	*	-		1200	x 1200	*	-		1500	x 1500	*	-
	1200	x 600	*	-															

- Notes :**
- NC values are based on 10 dB room absorption
 - Data are based on damper in full open position
 - Effect of damper closure on the noise generated is shown on table 1
 - Effect of damper closure on the pressure loss is shown on figure 1
 - " - " represents NC level below 20 dB
 - " * " represents pressure loss below 5 Pa



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