

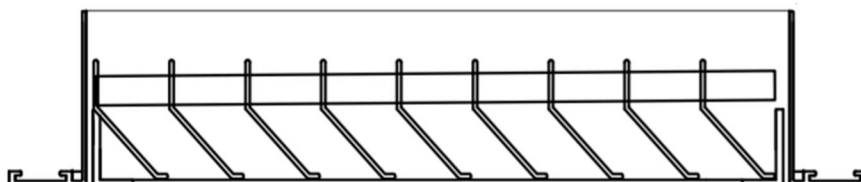
## Hinged Half Chevron Grille

### General Information:

Ventech Half Chevron Grille is manufactured by lightweight and anti-corrosion aluminium. The core can be fixed, removable, hinged or hinged complete for horizontal 45-degree fixed louvre blades at 17.5mm spacing with panel filter. Half chevron grille is generally used as wall return air grilles, exhaust, and relief air applications.

### Features:

- Aluminium construction
- Fixed core, removable core, or hinged core with or without filter
- Powder coat finish
- Suitable for wall mounting
- All size available upon request
- Optional opposed blade damper



## Selection table

Nominal Neck (mm)		150 x 150		200 x 200		250 x 250		300 x 300		350 x 350		400 x 400		450 x 450		500 x 500	
Equivalent Size (mm)		225 x 100		350 x 125		350 x 175		350 x 250		400 x 300		400 x 350		500 x 400		600 x 450	
								450 x 200		500 x 250		550 x 300		600 x 350		650 x 400	
(mm)						650 x 100		600 x 150		600 x 200		750 x 200		700 x 300		750 x 350	
								950 x 100		850 x 150		---		800 x 250		900 x 300	
$A_k$		0.017		0.034		0.056		0.081		0.11		0.144		0.182		0.225	
$V_k$	$P_t$	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR
1.5	7	25	<15	51	<15	84	<15	122	<15	165	<15	216	15	273	16	338	17
2.0	12	34	16	68	23	113	24	162	24	221	25	288	26	365	26	450	27
2.5	19	42	21	85	28	141	29	203	29	276	30	360	31	456	31	563	32
3.0	28	51	24	102	33	166	34	243	35	331	35	432	36	547	36	675	37
3.5	38	59	28	119	35	197	36	284	37	386	37	504	38	638	38	788	39
4.0	50	68	34	136	39	225	40	324	40	441	40	576	41	729	41	900	42
4.5	63	76	37	153	41	253	42	365	43	496	43	648	44	820	44	1013	45
5.0	77	84	40	170	44	281	45	405	45	551	46	720	46	911	47	1125	48

Nominal Neck (mm)		550 x 550		600 x 600		650 x 650		700 x 700		750 x 750		800 x 800		850 x 850		900 x 900	
Equivalent Size (mm)		600 x 450		650 x 550		700 x 600		750 x 650		850 x 650		900 x 700		900 x 800		950 x 850	
		650 x 400		700 x 500		800 x 450		1000 x 500		1200 x 500		1200 x 550		950 x 750		1200 x 650	
		750 x 350		800 x 450		1200 x 350		850 x 550		1000 x 650		100 x 650		1100 x 650		1000 x 750	
		900 x 300		900 x 300		---		---		---		---		1200 x 600		---	
$A_k$		0.272		0.324		0.380		0.441		0.506		0.576		0.650		0.729	
$V_k$	$P_t$	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR	Flow Rate (l/s)	NR
1.5	7	408	18	486	18	570	19	662	20	759	21	864	22	975	23	1094	23
2.0	12	545	28	648	28	761	29	882	30	1013	30	1152	31	1301	32	1458	32
2.5	19	681	33	810	33	951	34	1103	34	1266	35	1440	35	1626	36	1823	37
3.0	28	817	37	972	37	1141	38	1323	38	1519	39	1728	39	1951	40	2187	41
3.5	38	953	39	1134	40	1331	40	1544	41	1772	41	2016	42	2276	43	2552	43
4.0	50	1089	42	1296	43	1521	43	176	44	2025	45	2304	45	2601	46	2916	46
4.5	63	1225	45	1458	46	1711	46	1985	47	2278	47	2624	48	2926	48	3281	49
5.0	77	1361	48	1620	49	1901	49	2205	50	2531	50	2880	51	3251	51	3645	52

Symbols:

$A_k$  - Effective area

$V_k$  - Effective velocity in m/s

Pressure ( $P_t$ ) - All pressures are in Pa ( $N/m^2$ )

NR - Noise level index in dB based on a room absorption and one diffuser