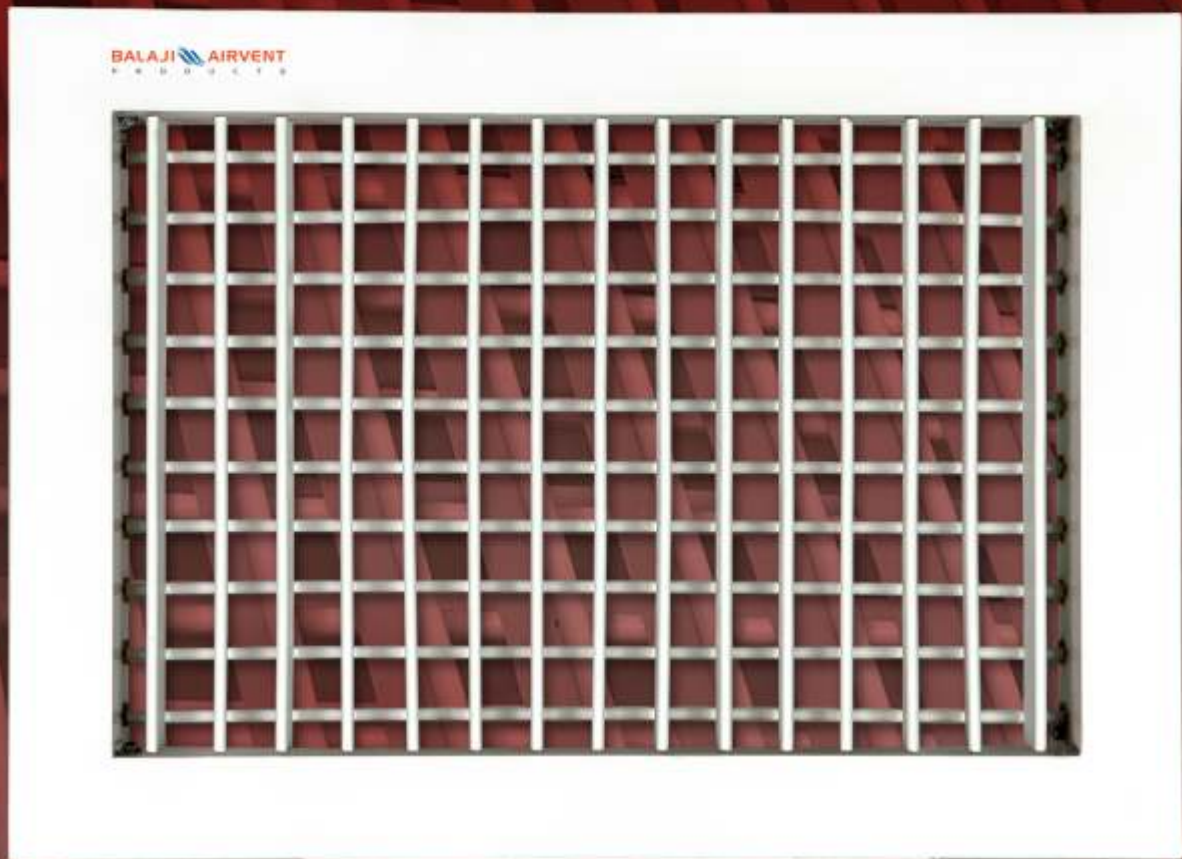


DOUBLE DEFLECTION HVAD GRILLE

BALAJI AIRVENT
P R O D U C T S

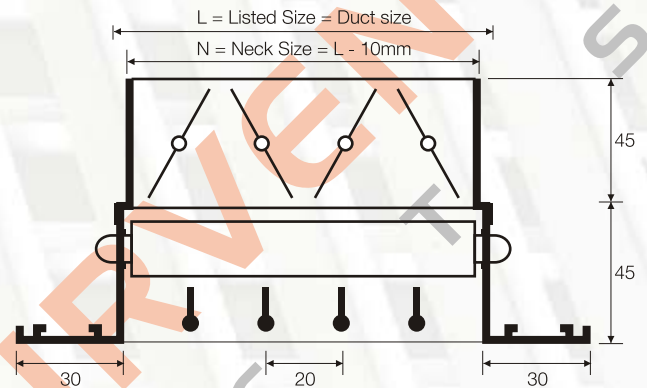
Model No. AVHVD



DOUBLE DEFLECTION
HVAD GRILLE

DOUBLE DEFLECTION HVAD GRILLE

- Manufactured in High Quality aluminium extrusion profiles.
- Designed with Nylon Bushes for efficient, smooth and quiet operation & avoid ratting noise.
- Aerofoil shaped blades.
- Deflection blades are adjustable manually and individually.
- Standard 20mm blade spacing.
- Single/Double deflection with high Quality anodising or powder coating.
- With or Without Opposed blade Dampers.
- Available in different Standard sizes.
- Non standard sizes also manufactured upon request.



HVAD Air Flow Data

CFM	Listed Size in mm x mm	200 x 100		250 x 100 200 x 125 150 x 150		200 x 150 250 x 125 300 x 100		250 x 150 300 x 150 400 x 100		300 x 150 350 x 125 450 x 100	
M ³ /sec	Area factor Deflection	0°	45°	0°	45°	0°	45°	0°	45°	0°	45°
100	Face vel Pt mm H2O Throw in (M) N.C	2.47 0.43 4.2-5.4 15	5.08 1.45 2.7-4.8 19	2.37 0.35 3.9-5.5 <15	4.63 1.22 3.0-4.9 16	2.21 0.33 3.9-5.2 <15	4.18 1.04 3.0-4.9 <15	1.92 0.23 4.0-5.2 <15	3.32 0.69 2.7-4.6 <15		
150	Face vel Pt mm H2O Throw in (M) N.C	3.71 0.99 4.9-6.4 18	7.61 3.23 3.6-5.8 24	3.56 0.78 4.6-6.1 16	6.94 2.72 3.7-5.5 21	3.31 0.74 4.3-6.1 <15	6.27 2.31 3.7-5.2 16	2.87 0.53 4.3-6.1 <15	4.98 1.55 3.4-5.2 <15	2.63 0.46 4.0-5.8 <15	4.19 1.07 3.4-4.9 <15
200	Face vel Pt mm H2O Throw in (M) N.C	4.95 1.77 5.2-7.3 21	10.16 5.76 4.3-6.4 28	4.75 1.39 5.2-7.0 19	9.26 4.88 4.3-6.1 25	4.42 1.3 4.9-7.0 17	8.36 4.12 3.9-6.1 24	3.84 0.94 4.9-6.7 15	6.65 2.77 4.0-5.8 20	3.51 0.81 4.6-6.7 <15	5.59 1.88 4.0-5.8 15
250	Face vel Pt mm H2O Throw in (M) N.C	6.18 2.76 5.8-7.9 28	12.69 9.02 4.8-7.0 35	5.93 2.18 5.8-7.9 27	11.58 7.62 4.9-7.0 32	5.52 2.0 5.5-7.6 24	10.45 6.45 4.9-6.7 31	4.80 1.45 5.4-7.6 21	8.32 4.32 4.6-6.7 27	4.39 1.24 5.2-7.6 17	6.988 2.95 4.6-6.7 23
300	Face vel Pt mm H2O Throw in (M) N.C	7.42 3.96 5.8-8.2 34	15.24 13.21 5.2-7.3 40	7.12 3.15 5.8-8.2 31	13.89 10.92 5.2-7.3 38	6.62 2.9 5.8-8.2 28	12.54 9.27 5.2-7.3 36	5.76 2.1 5.8-8.2 26	9.98 6.22 5.2-7.3 33	5.27 1.18 5.8-8.2 23	8.38 4.24 5.2-7.3 30
350	Face vel Pt mm H2O Throw in (M) N.C	8.65 5.38 7.0-9.8 37	17.77 17.53 5.8-8.2 45	8.31 4.32 6.7-9.5 35	16.21 14.98 5.8-8.2 42	7.72 3.9 6.7-9.5 32	14.63 12.57 5.4-7.9 39	6.72 2.87 6.4-9.2 30	11.64 8.51 6.4-7.9 37	6.14 2.46 6.4-9.1 28	9.78 5.77 5.4-7.9 35
400	Face vel Pt mm H2O Throw in (M) N.C			9.94 5.61 7.6-10.4 38	18.52 19.56 6.7-9.1 45	8.83 5.13 7.3-10.4 36	16.72 16.51 6.4-8.8 42	7.68 3.76 7.0-10.1 34	13.30 11.05 6.1-8.5 40	7.022 3.2 6.7-9.8 32	11.18 7.52 6.1-8.5 38
450	Face vel Pt mm H2O Throw in (M) N.C							8.64 4.72 7.3-10.7 39	14.96 13.97 6.7-9.1 43	7.899 4.06 7.0-10.4 36	12.57 9.53 6.4-8.8 42
500	Face vel Pt mm H2O Throw in (M) N.C									8.78 5.00 7.3-10.9 40	13.97 11.74 6.7-7.4 45

HVAD Air Flow Data

CFM M³/sec	Listed Size in mm x mm	250 x 200 350 x 150 400 x 125 500 x 100		250 x 250 300 x 200 400 x 150 500 x 125 650 x 100		300 x 250 450 x 175 500 x 150 600 x 125 750 x 100		300 x 300 350 x 250 450 x 200 600 x 150		350 x 300 400 x 250 500 x 200 750 x 150	
		Area factor Deflection	0.028 0°	0.0178 45°	0.0324 0°	0.022 45°	0.039 0°	0.0288 45°	0.0469 0°	0.0369 45°	0.0528 0°
200 0.0945	Face vel Pt mm H2O Throw in (M) N.C	3.38 0.64 4.5-6.7 <15	5.31 1.7 3.7-5.8 <15	2.91 0.36 4.5-6.7 <15	4.30 1.17 3.7-5.5 <15	2.42 0.23 4.6-6.7 <15	3.28 0.71 3.4-5.5 <15	2.0 0.15 4.6-6.7 <15	2.56 0.41 3.1-5.5 <15		
250 0.1181	Face vel Pt mm H2O Throw in (M) N.C	4.22 0.99 5.2-7.6 15	6.63 2.64 4.6-6.7 21	3.65 0.58 5.2-7.6 <15	5.37 1.83 4.3-6.7 18	3.03 0.36 5.2-7.6 <15	4.1 1.12 4.3-6.4 <15	2.52 0.23 5.2-7.6 <15	3.201 0.61 3.9-6.4 <15	2.24 0.18 5.2-7.3 <15	2.79 0.41 3.6-6.0 <15
300 0.1417	Face vel Pt mm H2O Throw in (M) N.C	5.06 1.42 5.8-8.2 20	7.96 3.81 5.2-7.3 27	4.37 0.84 5.8-8.2 17	6.44 2.62 5.2-7.3 22	3.63 0.51 5.8-8.2 <15	4.92 1.6 4.8-7.3 19	3.02 0.33 5.8-8.2 <15	3.84 0.89 4.8-7.3 <15	2.68 0.25 5.5-7.9 <15	3.36 0.58 4.9-7.0 <15
400 0.1889	Face vel Pt mm H2O Throw in (M) N.C	6.75 2.51 6.7-9.8 29	10.6 6.73 6.4-8.8 36	5.83 1.47 6.7-9.8 24	8.59 4.67 6.1-8.5 27	4.84 0.91 6.7-9.8 19	6.56 2.87 5.8-8.5 21	4.03 0.61 6.7-9.5 <15	5.19 1.6 5.8-8.2 17	3.58 0.46 6.7-9.5 <15	4.47 1.07 5.5-8.2 <15
500 0.2362	Face vel Pt mm H2O Throw in (M) N.C	8.44 3.91 7.3-10.9 35	13-27 10.54 6.7-9.2 42	7.29 2.28 7.3-10.9 30	10-74 7.24 6.7-9.1 32	6.06 1.45 7.6-11.0 26	8.2 4.47 6.4-9.1 28	5.036 0.94 7.9-11.3 18	6.4 2.46 6.4-9.1 24	4.47 0.71 7.6-11.3 15	5.59 1.65 8.2-9.1 91
600 0.2834	Face vel Pt mm H2O Throw in (M) N.C			8.75 3.3 8.5-12.2 36	12.88 10.52 7.0-10.0 39	7.27 2.06 8.5-12.2 30	9.84 6.45 7.0-10.0 35	6.04 1.35 8.5-12.2 25	7.68 3.58 7.0-10.0 31	5.37 1.04 8.5-12.2 19	6.72 2.36 6.7-10.1 24
700 0.3307	Face vel Pt mm H2O Throw in (M) N.C					8.48 2.82 9.1-13.1 36	11.48 8.76 7.6-10.9 42	7.05 1.83 9.1-13.1 32	8.96 4.83 7.6-11.0 37	6.26 1.40 9.1-13.1 25	7.84 3.25 7.6-10.9 31
800 0.3778	Face vel Pt mm H2O Throw in (M) N.C							8.05 2.41 9.8-14.0 36	10-24 6.35 8.2-11.9 41	7.16 1.83 9.8-13.7 33	8.95 4.22 8.2-11.9 37
900 0.425	Face vel Pt mm H2O Throw in (M) N.C							9.06 3.05 10.0-14.6 40	11.52 8.0 8.5-12.5 45	8.05 2.31 10.0-14.6 36	10.07 5.3 8.4-12.5 41

HVAD Air Flow Data

CFM M³/sec	Listed Size in mm x mm	350 x 350 400 x 300 500 x 250 600 x 200 900 x 150		400 x 400 500 x 300 600 x 250 750 x 200		500 x 350 600 x 300 700 x 250 900 x 200 1200 x 150		450 x 450 500 x 400 800 x 250 1000 x 200	
		Area factor Deflection	0.0633 0°	0.0529 45°	0.0827 0°	0.072 45°	0.0962 0°	0.0853 45°	0.1069 0°
500 0.2362	Face vel Pt mm H2O Throw in (M) N.C	3.73 0.48 7.3-10.9 <15	4.47 1.02 5.8-9.1 16	2.86 0.28 6.7-10.7 <15	3.28 0.45 5.5-9.1 <15	2.46 0.20 9.5-10.4 <15	2.77 0.31 5.2-9.1 <15	2.21 0.15 6.1-10.1 <15	2.43 0.23 4.9-8.8 <15
600 0.2834	Face vel Pt mm H2O Throw in (M) N.C	4.47 0.71 8.2-11.9 16	5.36 1.45 6.4-10.1 20	3.43 0.41 7.6-11.6 <15	3.94 0.63 6.4-10.1 18	2.95 0.31 7.3-11.3 <15	3.32 0.43 6.1-10.1 15	2.65 0.23 7.0-10.7 <15	2.92 0.31 6.1-9.8 <15
700 0.3307	Face vel Pt mm H2O Throw in (M) N.C	5.22 0.96 8.8-12.8 22	6.25 1.98 7.3-10.9 26	4.0 0.56 8.5-12.5 19	4.59 0.86 7.0-11.0 23	3.44 0.41 8.5-12.2 16	3.88 0.56 7.0-10.9 20	3.09 0.31 8.2-11.9 15	3.4 0.43 6.7-10.7 19
800 0.3778	Face vel Pt mm H2O Throw in (M) N.C	5.97 1.27 9.8-13.4 30	7.14 2.59 8.2-11.9 32	4.57 0.71 9.5-13.1 26	5.25 1.14 7.9-10.6 28	3.93 0.53 9.5-13.1 21	4.43 0.74 7.9-11.6 25	3.53 0.38 9.1-12.5 20	3.89 0.56 7.6-11.3 24
900 0.425	Face vel Pt mm H2O Throw in (M) N.C	6.71 1.60 10.1-14.6 33	8.03 3.25 8.5-12.5 36	5.14 0.91 10.1-14.3 30	5.9 1.45 8.5-12.2 33	4.42 0.68 10.1-14.0 25	4.98 0.94 8.5-12.2 30	3.98 0.48 9.8-13.7 24	4.38 0.71 8.2-12.2 29
1000 0.472	Face vel Pt mm H2O Throw in (M) N.C	7.44 1.98 10.7-15 37	8.92 4.01 9.1-13 40	5.69 1.11 10.4-15 34	6.55 1.78 9.1-13.1 36	4.92 0.84 10.4-14.6 30	5.55 1.17 9.1-13.1 33	4.45 0.61 10.1-14.3 29	4.86 0.86 9.2-13.1 32
1100 0.519	Face vel Pt mm H2O Throw in (M) N.C	8.18 2.39 10.9-16 40	9.81 4.88 9.8-14 45	6.25 1.35 10.7-15 36	7.21 2.16 9.8-14 40	5.41 1.02 10.7-15.0 33	6.11 1.42 9.8-14 36	4.89 0.74 10.4-14.9 32	5.35 1.07 9.8-14 35
1200 0.567	Face vel Pt mm H2O Throw in (M) N.C			6.83 1.60 11.3-16 38	7.87 2.54 10.4-15 43	5.91 1.22 11.3-15.9 36	6.67 1.68 10.4-14.9 40	5.35 1.0 11-15.2 35	5.84 1.24 10-14.8 39
1400 0.661	Face vel Pt mm H2O Throw in (M) N.C			7.96 2.18 12.2-17 44	9.18 3.51 11-15.5 49	6.88 1.65 12.2-16.8 41	7.77 2.28 10.9-15.2 44	6.23 1.19 11.6-16.2 40	6.81 1.73 10.4-15 43

HVAD Air Flow Data

CFM M ³ /sec	Listed Size in mm x mm	600 x 400 900 x 250 800 x 300 1200 x 200		800 x 350 900 x 300 1100 x 250 1400 x 200		600 x 600 900 x 400 1000 x 350 1200 x 300		750 x 600 900 x 500 1000 x 450 1500 x 300 1200 x 375		800 x 750 900 x 700 1000 x 600 1200 x 500	
	Area factor Deflection	0.1352 0°	0.1 45°	0.162 0°	0.1159 45°	0.216 0°	0.162 45°	0.27 0°	0.216 45°	0.354 0°	0.288 45°
1100 0.519	Face vel Pt mm H ₂ O Throw in (M) N.C	3.84 0.64 9.8-14.3 30	5.19 0.98 9.2-13.2 33	3.20 0.59 9.2-13.6 28	4.48 0.84 8.6-12.8 29	2.4 0.52 8.8-13.0 25	3.2 0.76 8.1-11.3 27	1.92 0.42 7.0-9.1 20	2.4 0.62 6.2-8.3 24		
1200 0.567	Face vel Pt mm H ₂ O Throw in (M) N.C	4.19 0.87 10.3-14.8 32	5.67 1.09 9.8-14.0 35	3.5 0.69 9.7-14.3 30	4.89 0.92 9.1-13.2 32	2.63 0.58 9.3-13.8 27	3.5 0.81 8.4-11.9 29	2.1 0.48 7.5-10.8 24	2.63 0.71 6.8-9.4 26	1.6 0.38 6.3-9.2 20	1.97 0.51 5.7-8.1 22
1400 0.661	Face vel Pt mm H ₂ O Throw in (M) N.C	4.89 0.93 10.8-15.4 35	6.61 1.51 10.2-14.6 38	4.08 0.76 10.1-15.0 33	5.7 1.21 9.7-13.8 35	3.06 0.63 9.7-14.3 30	4.08 0.98 8.8-11.3 32	2.45 0.51 8.1-11.3 27	3.06 0.79 7.3-10.1 29	1.87 0.43 6.8-10.1 23	2.29 0.58 6.1-8.8 25
1600 0.756	Face vel Pt mm H ₂ O Throw in (M) N.C	5.59 1.03 11.5-16.9 38	7.56 1.82 10.8-15.1 40	4.67 0.84 10.6-15.4 36	6.52 1.43 10.1-14.5 37	3.5 0.71 10.1-14.8 33	4.82 1.12 9.3-12.1 34	2.8 0.63 8.8-12.1 29	3.5 0.91 7.9-10.7 31	2.13 0.51 7.3-10.9 25	2.63 0.64 6.7-9.2 28
1800 0.850	Face vel Pt mm H ₂ O Throw in (M) N.C	6.29 1.32 12.6-18.2 41	8.5 2.24 11.4-17.3 44	5.25 0.97 11.8-16.7 39	7.33 1.73 10.7-15.3 41	3.94 0.82 10.9-16.1 36	5.32 1.34 9.8-14.1 37	3.15 0.72 10.1-14.2 31	3.94 1.13 8.2-12.2 33	2.4 0.58 7.9-11.6 28	2.95 0.78 7.1-9.8 31
2000 0.945	Face vel Pt mm H ₂ O Throw in (M) N.C	6.99 1.61 13.8-19.7 44	9.78 2.53 12.4-18.6 47	5.83 1.03 13.2-18.1 41	8.15 1.92 11.6-16.5 43	4.38 0.88 12.1-17.3 39	5.83 1.52 10.3-14.8 41	3.5 0.78 10.7-15.1 33	4.38 1.23 8.8-13.1 36	2.7 0.61 8.2-11.8 28	3.28 0.83 7.4-10.4 32
2200 1.039	Face vel Pt mm H ₂ O Throw in (M) N.C			6.41 1.16 14.3-19.5 44	8.96 2.42 12.4-17.7 47	4.81 0.95 12.8-18.1 41	6.41 1.82 10.9-15.7 44	3.85 0.83 11.2-16.4 35	4.81 1.45 9.3-13.8 39	2.94 0.72 8.9-13.0 30	3.61 0.93 8.1-11.3 33
2400 1.134	Face vel Pt mm H ₂ O Throw in (M) N.C					5.25 1.13 13.7-19.2 43	7.0 2.04 11.4-16.4 46	4.2 0.93 12.2-17.3 37	5.25 1.63 9.9-14.7 42	3.2 0.81 9.5-13.8 32	3.94 1.03 8.7-12.1 35
2600 1.228	Face vel Pt mm H ₂ O Throw in (M) N.C					5.69 1.43 14.4-21.3 45	7.58 2.43 12.1-17.6 48	4.55 1.07 13.1-18.4 40	5.69 1.93 10.7-15.4 44	3.47 0.92 10.7-15.7 33	4.26 1.32 9.3-13.2 37

- Face velocity is measured in m/sec.
- Total pressure loss is in mm of H₂O & Area factor in square meter.
- Throw(meters) is measured for a terminal velocity of 0.25 to 0.5 m/sec.
- Noise criteria (NC) is based on room attenuation of 10 db