

LINEAR FIXED BAR GRILLE

BALAJI AIRVENT
P R O D U C T S

Model No. AVLG-0 Model No. AVLG-15



LINEAR FIXED BAR GRILLE

LINEAR FIXED BAR GRILLE

Air Flow Data 0° - 12mm Spacing

Model No. AVLG-0

Width in mm A_w in m ²	Face Velocity in m/sec.	2.0	2.5	3.0	3.5	4.0	4.5	5.0
50	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	169 0.08 0.14 2.7 - 5.6 <15	212 0.1 0.19 3.5 - 6.2 <15	254 0.12 0.19 4.2 - 7.1 <15	296 0.14 0.23 4.6 - 7.9 17	339 0.16 0.28 4.9 - 8.3 22	381 0.18 0.36 5.4 - 9.3 25	423 0.2 0.46 5.5 - 9.8 31
100	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	275 0.13 0.14 3.5 - 7.1 <15	345 0.163 0.19 4.1 - 7.8 <15	413 0.195 0.19 4.8 - 8.6 15	483 0.228 0.28 5.6 - 9.3 18	550 0.26 0.35 5.9 - 10.0 23	620 0.293 0.46 6.4 - 11.3 27	688 0.325 0.56 6.8 - 12.4 32
150	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	373 0.176 0.14 4.1 - 8.2 <15	466 0.22 0.19 4.7 - 9.0 <15	559 0.264 0.23 5.5 - 10.2 16	652 0.308 0.33 6.2 - 10.9 18	745 0.352 0.42 6.9 - 11.7 24	838 0.396 0.53 7.4 - 13.1 29	932 0.44 0.65 7.8 - 14.0 34
200	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	470 0.222 0.16 4.6 - 9.0 <15	589 0.278 0.19 5.3 - 10.0 16	705 0.333 0.28 6.3 - 11.4 17	824 0.389 0.36 7.1 - 12.3 21	940 0.444 0.48 7.9 - 13.1 26	1058 0.499 0.60 8.4 - 14.5 32	1175 0.555 0.84 9.0 - 15.8 36
250	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	567 0.268 0.19 5.0 - 10 <15	709 0.335 0.23 5.6 - 11 16	851 0.402 0.31 6.7 - 12.1 21	993 0.469 0.39 7.8 - 13.3 27	1135 0.536 0.52 8.6 - 14.4 31	1277 0.603 0.71 9.0 - 15.9 35	1419 0.67 0.86 9.5 - 17.4 40
300	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	686 0.324 0.19 5.3 - 10.9 <15	857 0.405 0.28 6.2 - 11.9 18	1029 0.486 0.33 7.3 - 13.0 25	1200 0.567 0.44 8.4 - 14.3 30	1372 0.648 0.59 9.2 - 15.4 33	1543 0.729 0.78 9.6 - 17 37	1715 0.81 0.94 10.2 - 18.6 42

Air Flow Data 15° - 1 Way 12mm Spacing

Model No. AVLG-15

Width in mm A_w in m ²	Face Velocity in m/sec.	2.0	2.5	3.0	3.5	4.0	4.5	5.0
50	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	169 0.08 0.14 2.7 - 5.6 <15	212 0.1 0.19 3.5 - 6.2 <15	254 0.12 0.21 4.1 - 7.0 <15	296 0.14 0.25 4.5 - 7.7 17	339 0.16 0.31 4.8 - 8.1 22	381 0.18 0.39 5.1 - 8.9 25	423 0.2 0.5 5.2 - 9.3 31
100	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	275 0.13 0.14 3.5 - 7.1 <15	345 0.163 0.19 4.1 - 7.8 <15	413 0.195 0.21 4.7 - 8.4 15	483 0.228 0.3 5.4 - 9.0 18	550 0.26 0.38 5.8 - 9.7 23	620 0.293 0.5 6.1 - 10.8 27	688 0.325 0.6 6.4 - 11.7 32
150	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	373 0.176 0.14 4.1 - 8.2 <15	466 0.22 0.19 4.7 - 9.0 <15	559 0.264 0.25 5.4 - 10 16	652 0.308 0.36 6.0 - 10.6 18	745 0.352 0.45 6.7 - 11.4 24	838 0.396 0.57 7.0 - 12.5 29	932 0.44 0.7 7.4 - 13.3 34
200	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	470 0.222 0.16 4.6 - 9.0 <15	589 0.278 0.21 5.3 - 10.0 16	705 0.333 0.31 6.2 - 11.2 17	824 0.389 0.36 6.9 - 11.9 21	940 0.444 0.52 7.7 - 12.7 26	1058 0.499 0.65 8 - 13.8 32	1175 0.555 0.84 8.5 - 14.9 36
250	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	567 0.268 0.2 5.0 - 10 <15	709 0.335 0.25 5.6 - 11 16	851 0.402 0.33 6.6 - 11.9 21	993 0.469 0.42 7.6 - 12.9 27	1135 0.536 0.56 8.4 - 14 31	1277 0.603 0.77 8.6 - 15.1 35	1419 0.67 0.93 9.0 - 16.4 40
300	Cfm M ³ /sec. P_s in mmH ₂ O Throw in m NC	686 0.324 0.2 5.3 - 10.9 <15	857 0.405 0.3 6.2 - 11.9 18	1029 0.486 0.36 7.3 - 12.8 25	1200 0.567 0.47 8.2 - 13.9 30	1372 0.648 0.64 8.9 - 15 33	1543 0.729 0.84 9.2 - 16.2 37	1715 0.81 1.01 9.6 - 17.6 42

- Data based on one meter unit length of the grille with damper in full open position. Face velocity is measured in m/sec.
- P_s Static pressure loss across is in mm of H₂O.
- Throw(meters) is measured for terminal velocities of 0.25 to 0.75 m/sec.
- Noise criteria (NC) is based on room attenuation of 10db