



RETURN AIR GRILLE PERFORMANCE DATA

Return Air Grille

Performance Data

RA RA-CB RA-P RA-FB RF-2 RA-AG RA-PG



RECOMMENDED ANEMOMETER VELOCITIES, FPM OR NC LEVEL

APPLICATION	MIN.	AVG.	MAX.	NC
Broadcast Studios, Legitimate Theaters, Concert Halls, Music Rooms.	200	250	300	Below NC 25
Conference Rooms, Libraries, Museums.	250	300	375	NC 25-30
Private Offices, Hospitals, Hotel Rooms, Movie Theaters, Churches, Residences, Court Rooms.	300	380	450	NC 30-35
Restaurants, General Office Spaces, Small Stores	500	600	800	NC 35-40
Public Buildings, Post Offices, General Stores, Department Stores, Cafeterias.	600	750	1050	NC 40-45
Factories	700	1000	1500	NC 45-50 or Over

MIN. – For extremely quiet operation. AVG. – Satisfactory for most installations. MAX. – Higher velocity where air noise is not objectionable.

IMPORTANT NOTE: Where selections are made for capacities between the charted numbers, always select the next larger size return air grille for better noise level performance.

Select "Listed Size" Based on (NOISE LEVEL) "Application" Chart Above

LISTED SIZE	ANEM. FREE EFFECTIVE AREA (SQ. FT.)	AIR CAPACITIES IN CFM							
		300 FPM	400 FPM	500 FPM	600 FPM	700 FPM	800 FPM	900 FPM	1000 FPM
10 x 6	.291	87	116	146	175	204	233	262	291
12 x 6	.356	107	142	178	214	249	285	320	356
10 x 8	.399	119	159	199	239	279	318	358	398
12 x 8	.485	146	194	243	291	340	388	437	485
14 x 8	.574	172	230	287	344	402	459	517	574
12 x 12	.750	225	300	375	450	525	600	675	750
20 x 10	1.04	312	416	520	624	728	832	936	1040
18 x 12	1.13	338	452	565	678	791	904	1017	1130
30 x 8	1.26	378	504	630	756	882	1008	1134	1260
24 x 12	1.55	465	620	775	930	1085	1240	1395	1550
18 x 18	1.73	519	692	865	1038	1211	1384	1557	1730
24 x 14	1.81	543	724	905	1086	1267	1448	1629	1810
30 x 12	1.86	568	754	940	1176	1372	1568	1764	1960
24 x 18	2.40	720	960	1200	1440	1680	1920	2160	2400
30 x 18	3.01	909	1204	1505	1806	2107	2408	2709	3010
24 x 24	3.20	960	1280	1600	1920	2240	2560	2880	3200
36 x 18	3.61	1083	1444	1805	2166	2527	2888	3249	3610
30 x 24	4.05	1215	1620	2025	2430	2835	3240	3645	4050
36 x 24	4.83	1449	1932	2415	2898	3381	3864	4347	4830
30 x 30	5.10	1530	2040	2550	3060	3570	4080	4590	5100
36 x 30	6.09	1827	2436	3045	3654	4263	4872	5481	6090
48 x 24	6.50	1950	2600	3250	3900	4550	5200	5850	6500
48 x 30	8.14	2442	3256	4070	4884	5698	6512	7326	8140
48 x 36	9.84	2952	3936	4920	5904	6888	7872	8856	9840
Negative Static Pressure (in H ₂ O)		.014	.023	.038	.060	.083	.115	.147	.188

Add .05 to the static pressure shown when using a model RF-2 or RA-FB with filters.
When aluminum egg crate is used, increase listed air capacities by 18%.
When plastic egg crate is used, increase listed air capacities by 12%.
When perforated core is used, decrease listed air capacities by 10%.

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