



SOUND ATTENUATOR

ROUND

RCSA

RCSA-P-20-1D

Acoustic & Air Flow Performance

MODEL No.	FACE VELOCITY (fpm)	OCTAVE BANDS CENTER FREQUENCY (Hz)							
		63	125	250	500	1000	2000	4000	8000
		DYNAMIC INSERTION LOSS in dB							
RCSA-P-20-1D	-2500	4	4	7	10	12	12	11	10
	-1500	3	4	7	10	12	12	11	10
	0	3	4	6	9	12	12	11	10
	+1500	2	4	6	9	11	12	12	10
	+2500	2	3	6	9	11	12	12	10

THIS TABLE CONTAINS BOTH FORWARD (+) AND BACKWARD (-) FLOW ACOUSTIC AND AERODYNAMIC RATINGS BASED ON TEST RESULTS MEASURED IN ACCORDANCE WITH ASTM E477.

MODEL RCSA-P-20 -1D		STATIC PRESSURE DROP in INCH Wg.								
FACE VELOCITY (fpm)		0.02	0.04	0.09	0.16	0.25	0.36	0.49	0.64	0.81
FACE VELOCITY (fpm)		750	1000	1500	2000	2500	3000	3500	4000	4500
SIZE (in) D x L	FACE AREA (sq. ft)	AIRFLOW (Cfm)								
12 x 24	0.79	593	790	1185	1580	1975	2370	2765	3160	3555
14 x 24	1.07	803	1070	1605	2140	2675	3210	3745	4280	4815
16 x 24	1.4	1050	1400	2100	2800	3500	4200	4900	5600	8400
18 x 24	1.77	1328	1770	2655	3540	4425	5310	6195	7080	7965
20 x 24	2.18	1635	2180	3270	4360	5450	6540	7630	8720	9810
22 x 24	2.64	1980	2640	3960	5280	6600	7920	9240	10560	11800
24 x 24	3.14	2355	3140	4710	6280	7850	9420	10990	12560	14130
26 x 24	3.69	2768	3690	5535	7380	9225	11070	12915	14760	16605
28 x 28	4.28	3210	4280	6420	8560	10700	12840	14980	17120	19290
30 x 30	4.91	3683	4910	7365	9820	12275	14730	17185	19640	22095
32 x 32	5.58	4185	5580	8370	11160	13950	16740	19530	22320	25110
36 x 36	7.07	5303	7070	10605	14140	17675	21210	24745	28280	31815
40 x 40	8.73	6548	8730	13095	17460	21825	26190	30555	34920	39285
44 x 44	10.56	7920	10560	15840	21120	26400	31680	36960	42240	47520
48 x 48	12.57	9428	12570	18855	25140	31425	37710	43995	50280	56565
52 x 52	14.75	11063	14750	22125	29500	36875	44250	51625	59000	66375
56 x 56	17.1	12825	17100	25650	34200	42750	51300	59850	68400	76950
60 x 60	19.63	14723	19630	29445	39260	49075	58890	68705	78520	88335

MODEL No.	FACE VELOCITY (fpm)	OCTAVE BANDS CENTER FREQUENCY (Hz)							
		63	125	250	500	1000	2000	4000	8000
		AIRFLOW GENERATED SOUND POWER LEVELS							
RCSA-P-20-1D	-2500	69	64	59	57	55	55	51	40
	-1500	60	53	48	45	42	41	35	23
	+1500	60	54	48	47	42	39	33	23
	+2500	67	66	61	58	56	55	51	41

FACE AREA	.75	1.5	2	2.5	3.1	4.0	6.0	12	20
ADJUSTMENT FACTOR, dB	-6	-3	-2	-1	0	+1	+3	+6	+8

Self generated power level in the table require adjustment for silencer or silencer bank with face area other than 3.14 ft²