

S80, S580 Performance Data
IP/METRIC DATA: S80, S580, 35° DEFLECTION (NO DAMPER)

IP Data					NC	Metric Data					Octave Band, dB						
Nom Duct	Duct Area	Neck Vel	Air Flow	Ps		Nom Duct	Duct Area	Neck Vel	Air Flow	Ps	2	3	4	5	6	7	
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa							
6" x 6"	0.25	500	96	-.035	11	152	0.02	2.54	45	-8.7	24	30	30	19	14	11	
		650	124	-.059	19			3.30	59	-14.8	29	34	35	28	24	19	
		800	153	-.090	25			4.06	72	-22.4	32	38	39	35	31	26	
		950	182	-.127	30			4.83	86	-31.6	34	41	43	40	38	32	
		1100	211	-.170	35			5.59	99	-42.3	37	44	46	45	43	37	
10" x 6"	0.42	500	169	-.035	14	254	0.04	2.54	80	-8.7	28	33	33	23	18	14	
		650	219	-.059	22			3.30	103	-14.8	32	37	38	31	28	23	
		800	270	-.090	29			4.06	127	-22.4	35	41	43	38	35	30	
		950	320	-.127	34			4.83	151	-31.6	37	44	46	44	41	35	
		1100	371	-.170	38			5.59	175	-42.3	40	47	49	49	47	40	
12" x 6"	0.50	450	185	-.028	12	305	0.05	2.29	87	-7.1	27	32	32	21	15	12	
		613	251	-.053	22			3.11	119	-13.1	32	37	38	31	27	22	
		775	318	-.084	29			3.94	150	-21.0	35	42	43	38	35	30	
		938	385	-.124	35			4.76	181	-30.8	38	45	47	45	42	36	
		1100	451	-.170	40			5.59	213	-42.3	41	48	50	50	48	41	
12" x 8"	0.67	450	255	-.028	14	305	0.06	2.29	120	-7.1	29	34	34	23	18	14	
		613	347	-.053	24			3.11	164	-13.1	33	39	40	33	29	24	
		775	439	-.084	31			3.94	207	-21.0	37	43	45	41	37	32	
		938	531	-.124	37			4.76	251	-30.8	40	47	49	47	44	38	
		1100	623	-.170	42			5.59	294	-42.3	42	50	52	52	50	43	
18" x 6"	0.75	400	252	-.022	11	457	0.07	2.03	119	-5.6	27	32	32	19	14	11	
		575	362	-.046	22			2.92	171	-11.6	33	39	39	31	27	23	
		750	472	-.079	30			3.81	223	-19.7	37	43	45	40	37	31	
		925	582	-.120	37			4.70	275	-29.9	40	47	49	47	44	38	
		1100	692	-.170	42			5.59	326	-42.3	43	50	52	53	51	44	
22" x 6"	0.92	200	155	-.006	-	559	0.09	1.02	73	-1.4	18	21	19	-	-	-	
		400	310	-.022	12			2.03	146	-5.6	28	33	33	21	15	12	
		600	465	-.051	25			3.05	219	-12.6	35	41	41	34	30	25	
		800	620	-.090	34			4.06	293	-22.4	39	46	47	44	40	34	
		1000	775	-.141	41			5.08	366	-35.0	43	50	51	51	49	42	
18" x 10"	1.25	200	222	-.006	-	457	0.12	1.02	105	-1.4	20	23	21	-	-	-	
		400	443	-.022	15			2.03	209	-5.6	30	35	35	23	18	14	
		600	665	-.051	27			3.05	314	-12.6	37	42	43	36	32	27	
		800	886	-.090	36			4.06	418	-22.4	41	48	49	46	43	37	
		1000	1108	-.141	43			5.08	523	-35.0	45	52	53	53	51	44	
27" x 8"	1.50	350	463	-.017	11	686	0.14	1.78	218	-4.3	29	34	34	20	14	11	
		488	644	-.033	22			2.48	304	-8.3	34	40	40	31	26	22	
		625	826	-.055	29			3.18	390	-13.7	38	44	45	39	35	30	
		763	1008	-.082	35			3.87	476	-20.3	41	48	49	45	42	36	
		900	1189	-.114	41			4.57	561	-28.3	44	51	52	51	48	41	
24" x 10"	1.67	350	523	-.017	12	610	0.15	1.78	247	-4.3	30	34	34	20	15	12	
		488	728	-.033	22			2.48	344	-8.3	35	40	41	31	27	22	
		625	933	-.055	30			3.18	441	-13.7	39	45	46	40	36	30	
		763	1139	-.082	36			3.87	537	-20.3	42	48	50	46	43	37	
		900	1344	-.114	41			4.57	634	-28.3	44	51	53	52	49	42	
16" x 16"	1.78	350	565	-.017	13	406	0.17	1.78	267	-4.3	30	35	35	21	15	12	
		488	787	-.033	23			2.48	372	-8.3	35	41	41	32	27	23	
		625	1009	-.055	31			3.18	476	-13.7	39	45	46	40	36	31	
		763	1231	-.082	37			3.87	581	-20.3	42	49	50	47	43	37	
		900	1454	-.114	42			4.57	686	-28.3	45	52	53	52	49	43	
18" x 18"	2.25	350	723	-.017	14	457	0.21	1.78	341	-4.3	32	36	36	23	17	13	
		475	982	-.032	24			2.41	463	-7.9	36	42	42	33	28	23	
		600	1240	-.051	31			3.05	585	-12.6	40	46	47	40	36	31	
		725	1498	-.074	37			3.68	707	-18.4	43	49	50	46	43	37	
		850	1756	-.102	41			4.32	829	-25.3	45	52	54	52	49	42	

NOTE: See notes on page J1-9.

S80, S580 Performance Data

IP/METRIC DATA: S80, S580, 35° DEFLECTION (NO DAMPER)

IP Data					NC	Metric Data					Octave Band, dB						
Nom Duct	Duct Area	Neck Vel	Air Flow	Ps		Nom Duct	Duct Area	Neck Vel	Air Flow	Ps	2	3	4	5	6	7	
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa							
30" x 12"	2.50	350	800	-.017	15	762 x 305	0.23	1.78	377	-4.3	32	37	36	23	17	14	
		475	1085	-.032	24			2.41	512	-7.9	37	42	43	33	29	24	
		600	1371	-.051	31			3.05	647	-12.6	40	46	47	41	37	32	
		725	1657	-.074	37			3.68	782	-18.4	43	50	51	47	44	38	
		850	1942	-.102	42			4.32	917	-25.3	46	53	54	52	50	43	
20" x 20"	2.78	300	772	-.013	11	508 x 508	0.26	1.52	364	-3.2	30	34	34	19	13	-	
		425	1094	-.025	22			2.16	516	-6.3	36	41	41	30	25	21	
		550	1415	-.043	29			2.79	668	-10.6	40	45	46	39	35	29	
		675	1737	-.064	36			3.43	820	-15.9	43	49	50	45	42	36	
		800	2059	-.090	41			4.06	972	-22.4	46	52	54	51	48	42	
30" x 16"	3.33	300	929	-.013	12	762 x 406	0.31	1.52	439	-3.2	28	32	31	16	-	-	
		425	1317	-.025	23			2.16	621	-6.3	33	38	38	27	22	18	
		550	1704	-.043	31			2.79	804	-10.6	37	43	43	36	31	27	
		675	2091	-.064	37			3.43	987	-15.9	40	47	48	42	39	33	
		800	2478	-.090	42			4.06	1170	-22.4	43	50	51	48	45	39	
36" x 14"	3.50	300	973	-.013	12	914 x 356	0.33	1.52	459	-3.2	32	36	35	20	14	11	
		425	1378	-.025	23			2.16	651	-6.3	37	42	42	32	27	22	
		550	1784	-.043	31			2.79	842	-10.6	41	47	47	40	36	31	
		675	2189	-.064	37			3.43	1033	-15.9	44	50	51	47	44	37	
		800	2595	-.090	42			4.06	1225	-22.4	47	54	55	52	50	43	
30" x 18"	3.75	300	1051	-.013	13	762 x 457	0.35	1.52	496	-3.2	32	36	36	21	15	12	
		413	1445	-.024	22			2.10	682	-6.0	37	42	42	31	26	22	
		525	1840	-.039	30			2.67	868	-9.6	41	46	47	39	35	30	
		638	2234	-.057	36			3.24	1054	-14.2	44	50	51	46	42	36	
		750	2628	-.079	41			3.81	1240	-19.7	46	53	54	51	48	41	
36" x 18"	4.50	300	1267	-.013	14	914 x 457	0.42	1.52	598	-3.2	33	37	37	22	16	13	
		413	1742	-.024	24			2.10	822	-6.0	38	43	43	32	27	23	
		525	2217	-.039	31			2.67	1046	-9.6	42	47	48	40	36	31	
		638	2692	-.057	37			3.24	1270	-14.2	45	51	52	47	43	37	
		750	3167	-.079	42			3.81	1495	-19.7	47	54	55	52	49	42	
42" x 18"	5.25	300	1482	-.013	15	1067 x 457	0.49	1.52	700	-3.2	28	32	31	15	-	-	
		400	1977	-.022	24			2.03	933	-5.6	32	37	37	25	20	16	
		500	2471	-.035	30			2.54	1166	-8.7	35	41	41	32	28	23	
		600	2965	-.051	36			3.05	1399	-12.6	38	44	45	38	34	29	
		700	3459	-.069	41			3.56	1632	-17.1	41	47	48	43	40	34	
30" x 28"	5.83	300	1661	-.013	15	762 x 711	0.54	1.52	784	-3.2	34	39	38	24	18	14	
		400	2214	-.022	24			2.03	1045	-5.6	39	44	44	33	28	24	
		500	2768	-.035	31			2.54	1306	-8.7	42	48	48	40	36	31	
		600	3321	-.051	37			3.05	1567	-12.6	45	51	52	46	43	37	
		700	3875	-.069	41			3.56	1829	-17.1	48	54	55	51	48	42	
30" x 30"	6.25	260	1545	-.010	11	762 x 762	0.58	1.32	729	-2.4	33	36	36	19	13	-	
		370	2198	-.019	22			1.88	1037	-4.8	38	43	43	31	26	22	
		480	2852	-.032	30			2.44	1346	-8.1	42	48	48	40	35	30	
		590	3505	-.049	37			3.00	1654	-12.2	45	51	52	46	43	37	
		700	4159	-.069	42			3.56	1963	-17.1	48	54	55	52	49	42	
46" x 22"	7.03	250	1669	-.009	11	1168 x 559	0.65	1.27	788	-2.2	33	36	36	19	12	-	
		363	2421	-.018	22			1.84	1142	-4.6	38	43	43	31	26	22	
		475	3172	-.032	31			2.41	1497	-7.9	43	48	48	40	35	30	
		588	3923	-.049	37			2.98	1851	-12.1	46	52	53	47	43	37	
		700	4674	-.069	43			3.56	2206	-17.1	49	55	56	53	50	43	
36" x 30"	7.50	250	1790	-.009	11	914 x 762	0.70	1.27	845	-2.2	33	37	36	19	13	-	
		350	2506	-.017	22			1.78	1183	-4.3	38	43	43	30	25	21	
		450	3222	-.028	29			2.29	1521	-7.1	42	47	48	39	34	29	
		550	3938	-.043	36			2.79	1859	-10.6	45	51	52	45	41	35	
		650	4654	-.059	41			3.30	2196	-14.8	48	54	55	51	47	41	

NOTE: See notes on page J1-9.

RETURN GRILLES

8010580

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S80, S580 Performance Data
IP/METRIC DATA: S80, S580, 35° DEFLECTION (NO DAMPER)

IP Data					NC	Metric Data					Octave Band, dB						
Nom Duct	Duct Area	Neck Vel	Air Flow	Ps		Nom Duct	Duct Area	Neck Vel	Air Flow	Ps	2	3	4	5	6	7	
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa							
34" x 34"	8.03	250	1919	-.009	12	864 x 864	0.75	1.27	906	-2.2	25	29	28	-	-	-	
		350	2687	-.017	22			1.78	1268	-4.3	30	35	35	21	15	12	
		450	3455	-.028	30			2.29	1631	-7.1	34	39	39	29	24	20	
		550	4223	-.043	36			2.79	1993	-10.6	37	43	43	36	31	27	
		650	4990	-.059	41			3.30	2355	-14.8	40	46	47	41	38	32	
42" x 30"	8.75	250	2095	-.009	12	1067 x 762	0.81	1.27	989	-2.2	34	38	37	20	14	11	
		350	2933	-.017	23			1.78	1384	-4.3	39	44	44	31	26	22	
		450	3771	-.028	30			2.29	1779	-7.1	43	48	49	40	35	30	
		550	4608	-.043	37			2.79	2175	-10.6	46	52	53	46	42	36	
		650	5446	-.059	42			3.30	2570	-14.8	49	55	56	52	48	42	
48" x 30"	10.00	250	2399	-.009	13	1219 x 762	0.93	1.27	1132	-2.2	35	38	38	21	15	12	
		350	3359	-.017	24			1.78	1585	-4.3	40	44	44	32	27	23	
		450	4319	-.028	31			2.29	2038	-7.1	44	49	49	40	36	31	
		550	5279	-.043	37			2.79	2491	-10.6	47	53	53	47	43	37	
		650	6238	-.059	43			3.30	2944	-14.8	49	56	57	52	49	43	
42" x 36"	10.50	250	2524	-.009	13	1067 x 914	0.98	1.27	1191	-2.2	35	39	38	21	15	12	
		350	3534	-.017	24			1.78	1668	-4.3	40	45	45	32	27	23	
		450	4544	-.028	32			2.29	2145	-7.1	44	49	50	41	36	31	
		550	5554	-.043	38			2.79	2621	-10.6	47	53	54	47	44	38	
		650	6563	-.059	43			3.30	3098	-14.8	50	56	57	53	50	43	
42" x 38"	11.08	250	2668	-.009	14	1067 x 965	1.03	1.27	1259	-2.2	25	28	27	-	-	-	
		338	3601	-.016	23			1.71	1700	-4.0	29	34	33	19	13	-	
		425	4535	-.025	30			2.16	2140	-6.3	33	38	38	27	22	18	
		513	5469	-.037	36			2.60	2581	-9.2	36	41	42	33	29	24	
		600	6402	-.051	41			3.05	3022	-12.6	38	44	45	38	34	29	
48" x 36"	12.00	250	2892	-.009	14	1219 x 914	1.11	1.27	1365	-2.2	36	39	39	22	16	13	
		338	3904	-.016	24			1.71	1842	-4.0	40	45	45	32	27	22	
		425	4916	-.025	31			2.16	2320	-6.3	44	49	49	40	35	30	
		513	5928	-.037	36			2.60	2798	-9.2	47	52	53	46	42	36	
		600	6940	-.051	41			3.05	3275	-12.6	49	55	56	51	48	41	
44" x 44"	13.44	250	3248	-.009	15	1118 x 1118	1.25	1.27	1533	-2.2	36	40	39	23	17	13	
		333	4319	-.016	24			1.69	2038	-3.9	41	45	45	32	27	23	
		415	5391	-.024	31			2.11	2544	-6.0	44	49	49	40	35	30	
		498	6463	-.035	36			2.53	3050	-8.7	47	52	53	46	41	36	
		580	7534	-.047	41			2.95	3556	-11.8	49	55	56	51	47	41	
46" x 46"	14.69	230	3270	-.007	13	1168 x 1168	1.37	1.17	1543	-1.9	35	39	38	21	14	11	
		318	4515	-.014	23			1.61	2131	-3.5	40	45	44	31	26	22	
		405	5759	-.023	30			2.06	2718	-5.7	44	49	49	39	35	30	
		493	7003	-.034	36			2.50	3305	-8.5	47	53	53	46	42	36	
		580	8247	-.047	41			2.95	3892	-11.8	50	56	56	51	48	41	
48" x 48"	16.00	230	3566	-.007	14	1219 x 1219	1.49	1.17	1683	-1.9	36	39	38	21	15	12	
		318	4922	-.014	23			1.61	2323	-3.5	41	45	45	32	26	22	
		405	6279	-.023	31			2.06	2963	-5.7	45	50	50	40	35	30	
		493	7636	-.034	37			2.50	3604	-8.5	48	53	54	46	42	36	
		580	8992	-.047	42			2.95	4244	-11.8	50	56	57	52	48	42	

NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

RETURN GRILLES

S 8 0 - S 5 8 0