

## PERFORMANCE DATA | S80P, S580P (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	OCTAVE BAND, dB						
in	ft <sup>2</sup>	FPM	CFM	"WG		mm	m <sup>2</sup>	m/s	L/s	Pa	2	3	4	5	6	7	
6" x 6"	0.25	540	103	-0.75	11	152 x 152	0.02	2.74	49	-18.6	36	29	24	22	22	19	
		680	130	-1.18	15			3.45	61	-29.4	38	31	27	25	26	24	
		820	157	-1.72	18			4.17	74	-42.8	38	32	29	27	29	28	
		960	184	-2.36	20			4.88	87	-58.7	39	33	30	29	31	31	
		1100	211	-3.09	22			5.59	99	-77.0	40	34	32	31	33	33	
10" x 6"	0.42	500	169	-0.64	13	254 x 152	0.04	2.54	80	-15.9	39	31	26	23	23	20	
		650	219	-1.08	17			3.30	103	-26.9	40	33	29	27	27	26	
		800	270	-1.64	20			4.06	127	-40.7	41	34	31	29	31	30	
		950	320	-2.31	23			4.83	151	-57.4	42	35	33	31	34	33	
		1100	371	-3.09	25			5.59	175	-77.0	42	36	34	33	36	36	
12" x 6"	0.50	500	205	-0.64	13	305 x 152	0.05	2.54	97	-15.9	40	32	27	24	24	21	
		650	267	-1.08	18			3.30	126	-26.9	41	34	30	28	28	27	
		800	328	-1.64	21			4.06	155	-40.7	42	35	32	30	32	31	
		950	390	-2.31	23			4.83	184	-57.4	43	36	34	32	35	34	
		1100	451	-3.09	26			5.59	213	-77.0	43	37	35	34	37	37	
12" x 8"	0.67	400	227	-0.41	11	305 x 203	0.06	2.03	107	-10.2	40	32	26	23	22	19	
		575	326	-0.85	17			2.92	154	-21.0	42	35	30	27	28	26	
		750	425	-1.44	21			3.81	200	-35.8	43	36	33	31	32	31	
		925	524	-2.19	24			4.70	247	-54.5	44	38	35	34	36	35	
		1100	623	-3.09	27			5.59	294	-77.0	45	39	37	36	38	38	
18" x 6"	0.75	400	252	-0.41	12	457 x 152	0.07	2.03	119	-10.2	41	33	27	23	23	19	
		575	362	-0.85	18			2.92	171	-21.0	42	35	30	28	28	26	
		750	472	-1.44	22			3.81	223	-35.8	43	37	33	31	33	31	
		925	582	-2.19	25			4.70	275	-54.5	44	38	35	34	36	36	
		1100	692	-3.09	28			5.59	326	-77.0	45	39	37	36	39	39	
22" x 6"	0.92	400	310	-0.41	13	559 x 152	0.09	2.03	146	-10.2	41	34	28	24	23	20	
		575	445	-0.85	18			2.92	210	-21.0	43	36	31	29	29	27	
		750	581	-1.44	23			3.81	274	-35.8	44	38	34	32	34	32	
		925	717	-2.19	26			4.70	338	-54.5	45	39	36	35	37	37	
		1100	852	-3.09	28			5.59	402	-77.0	46	40	38	37	40	40	
18" x 10"	1.25	400	443	-0.41	14	457 x 254	0.12	2.03	209	-10.2	43	36	29	26	25	22	
		575	637	-0.85	20			2.92	301	-21.0	45	38	33	31	31	29	
		750	831	-1.44	24			3.81	392	-35.8	46	39	36	34	35	34	
		925	1025	-2.19	27			4.70	484	-54.5	47	41	38	37	39	38	
		1100	1219	-3.09	30			5.59	575	-77.0	48	42	40	39	42	42	
27" x 8"	1.50	300	396	-0.23	11	686 x 203	0.14	1.52	187	-5.7	43	35	27	23	21	17	
		500	661	-0.64	19			2.54	312	-15.9	45	38	32	30	30	27	
		700	925	-1.25	24			3.56	437	-31.2	46	40	36	34	35	34	
		900	1189	-2.07	28			4.57	561	-51.6	48	41	39	37	39	38	
		1100	1454	-3.09	31			5.59	686	-77.0	49	42	41	40	42	42	
24" x 10"	1.67	300	448	-0.23	11	610 x 254	0.15	1.52	211	-5.7	43	35	28	24	22	17	
		500	747	-0.64	19			2.54	352	-15.9	45	38	33	30	30	27	
		700	1045	-1.25	24			3.56	493	-31.2	47	40	37	35	36	34	
		900	1344	-2.07	28			4.57	634	-51.6	48	42	39	38	40	39	
		1100	1643	-3.09	31			5.59	775	-77.0	49	43	41	40	43	43	
16" x 16"	1.78	300	485	-0.23	12	406 x 406	0.17	1.52	229	-5.7	43	36	28	24	22	18	
		500	808	-0.64	19			2.54	381	-15.9	46	39	33	31	31	28	
		700	1131	-1.25	25			3.56	534	-31.2	47	41	37	35	36	34	
		900	1454	-2.07	29			4.57	686	-51.6	49	42	40	38	40	39	
		1100	1777	-3.09	32			5.59	838	-77.0	49	43	42	41	43	43	
18" x 18"	2.25	300	620	-0.23	13	457 x 457	0.21	1.52	293	-5.7	45	37	29	25	23	19	
		500	1033	-0.64	21			2.54	488	-15.9	47	40	35	32	32	29	
		700	1446	-1.25	26			3.56	683	-31.2	49	42	38	36	37	36	
		900	1860	-2.07	30			4.57	878	-51.6	50	43	41	39	41	41	
		1100	2273	-3.09	33			5.59	1073	-77.0	51	44	43	42	44	45	

NOTE: See notes on page J1-49.

# S80P / S580P

Return Grille | Perforated Face



## PERFORMANCE DATA | S80P, S580P (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft <sup>2</sup>	FPM	CFM	"WG		mm	m <sup>2</sup>	m/s	L/s	Pa								
30" x 12"	2.50	300	686	-0.23	13	762 x 305	0.23	1.52	324	-5.7	45	37	30	26	24	19		
		500	1143	-0.64	21			2.54	539	-15.9	47	40	35	32	32	30		
		700	1600	-1.25	26			3.56	755	-31.2	49	42	39	36	38	36		
		900	2057	-2.07	30			4.57	971	-51.6	50	44	41	40	42	41		
		1100	2514	-3.09	33			5.59	1186	-77.0	51	45	43	42	45	45		
20" x 20"	2.78	300	772	-0.23	14	508 x 508	0.26	1.52	364	-5.7	46	38	30	26	24	20		
		500	1287	-0.64	21			2.54	607	-15.9	48	41	36	33	33	30		
		700	1801	-1.25	27			3.56	850	-31.2	49	43	39	37	38	37		
		900	2316	-2.07	31			4.57	1093	-51.6	51	44	42	40	42	42		
		1100	2831	-3.09	34			5.59	1336	-77.0	52	45	44	43	46	46		
30" x 16"	3.33	300	929	-0.23	14	762 x 406	0.31	1.52	439	-5.7	43	35	28	24	22	18		
		500	1549	-0.64	22			2.54	731	-15.9	46	39	33	31	30	28		
		700	2168	-1.25	27			3.56	1023	-31.2	47	41	37	35	36	34		
		900	2788	-2.07	31			4.57	1316	-51.6	48	42	39	38	40	39		
		1100	3407	-3.09	34			5.59	1608	-77.0	49	43	42	41	43	43		
36" x 14"	3.50	250	811	-0.16	12	914 x 356	0.33	1.27	383	-4.0	46	38	29	25	23	17		
		463	1500	-0.55	21			2.35	708	-13.6	49	41	36	33	33	30		
		675	2189	-1.16	27			3.43	1033	-29.0	50	44	40	38	39	37		
		888	2879	-2.01	31			4.51	1359	-50.1	52	45	43	41	43	42		
		1100	3568	-3.09	35			5.59	1684	-77.0	53	47	45	44	47	47		
30" x 18"	3.75	250	876	-0.16	12	762 x 457	0.35	1.27	413	-4.0	46	38	30	25	23	18		
		463	1621	-0.55	22			2.35	765	-13.6	49	42	36	33	33	30		
		675	2365	-1.16	27			3.43	1116	-29.0	51	44	40	38	39	37		
		888	3110	-2.01	32			4.51	1468	-50.1	52	46	43	41	43	43		
		1100	3854	-3.09	35			5.59	1819	-77.0	53	47	45	44	47	47		
36" x 18"	4.50	250	1056	-0.16	13	914 x 457	0.42	1.27	498	-4.0	47	39	31	26	24	19		
		463	1953	-0.55	22			2.35	922	-13.6	50	43	37	34	34	31		
		675	2850	-1.16	28			3.43	1345	-29.0	52	45	41	39	40	38		
		888	3748	-2.01	33			4.51	1769	-50.1	53	46	44	42	44	44		
		1100	4645	-3.09	36			5.59	2192	-77.0	54	48	46	45	48	48		
42" x 18"	5.25	250	1235	-0.16	14	1067 x 457	0.49	1.27	583	-4.0	42	34	26	21	19	14		
		463	2285	-0.55	23			2.35	1079	-13.6	45	38	32	29	29	26		
		675	3335	-1.16	29			3.43	1574	-29.0	47	40	36	34	35	33		
		888	4385	-2.01	33			4.51	2070	-50.1	48	42	39	38	39	39		
		1100	5436	-3.09	37			5.59	2565	-77.0	49	43	41	40	43	43		
30" x 28"	5.83	200	1107	-0.10	11	762 x 711	0.54	1.02	522	-2.5	47	39	29	25	21	16		
		400	2214	-0.41	21			2.03	1045	-10.2	50	43	37	33	33	29		
		600	3321	-0.92	28			3.05	1567	-22.9	52	45	41	39	39	37		
		800	4428	-1.64	32			4.06	2090	-40.7	54	47	44	42	44	43		
		1000	5535	-2.56	36			5.08	2612	-63.6	55	48	46	45	48	47		
30" x 30"	6.25	200	1188	-0.10	11	762 x 762	0.58	1.02	561	-2.5	48	39	30	25	22	16		
		400	2377	-0.41	22			2.03	1122	-10.2	51	43	37	34	33	30		
		600	3565	-0.92	28			3.05	1682	-22.9	53	46	41	39	40	38		
		800	4753	-1.64	32			4.06	2243	-40.7	54	47	44	43	44	43		
		1000	5941	-2.56	36			5.08	2804	-63.6	55	49	47	45	48	48		
46" x 22"	7.03	200	1336	-0.10	11	1168 x 559	0.65	1.02	630	-2.5	48	40	30	26	22	17		
		400	2671	-0.41	22			2.03	1261	-10.2	51	44	38	34	34	30		
		600	4007	-0.92	28			3.05	1891	-22.9	53	46	42	39	40	38		
		800	5342	-1.64	33			4.06	2521	-40.7	54	48	45	43	45	44		
		1000	6678	-2.56	36			5.08	3151	-63.6	55	49	47	46	48	48		
36" x 30"	7.50	200	1432	-0.10	12	914 x 762	0.70	1.02	676	-2.5	48	40	31	26	23	17		
		400	2864	-0.41	22			2.03	1352	-10.2	52	44	38	35	34	31		
		600	4296	-0.92	29			3.05	2028	-22.9	53	46	42	40	40	38		
		800	5728	-1.64	33			4.06	2703	-40.7	55	48	45	43	45	44		
		1000	7160	-2.56	37			5.08	3379	-63.6	56	50	48	46	49	49		

NOTE: See notes on page J1-49.

## PERFORMANCE DATA | S80P, S580P (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7	
in	ft <sup>2</sup>	FPM	CFM	"WG		mm	m <sup>2</sup>	m/s	L/s	Pa							
34" x 34"	8.03	200	1536	-0.10	12	864 x 864	0.75	1.02	725	-2.5	42	33	24	19	16	-	
		400	3071	-0.41	23			2.03	1449	-10.2	45	37	31	28	27	23	
		600	4607	-0.92	29			3.05	2174	-22.9	47	40	35	33	33	31	
		800	6142	-1.64	33			4.06	2899	-40.7	48	41	38	36	38	37	
		1000	7678	-2.56	37			5.08	3623	-63.6	49	43	41	39	42	41	
42" x 30"	8.75	180	1508	-0.08	11	1067 x 762	0.81	0.91	712	-2.1	49	40	30	25	22	16	
		360	3016	-0.33	21			1.83	1424	-8.2	52	44	38	34	33	29	
		540	4525	-0.75	28			2.74	2135	-18.6	54	47	42	39	40	37	
		720	6033	-1.33	32			3.66	2847	-33.0	55	48	45	43	44	43	
48" x 30"	10.00	180	1728	-0.08	11	1219 x 762	0.93	0.91	815	-2.1	49	41	31	26	22	16	
		360	3455	-0.33	22			1.83	1631	-8.2	52	45	38	35	34	30	
		540	5183	-0.75	28			2.74	2446	-18.6	54	47	42	40	40	38	
		720	6910	-1.33	33			3.66	3261	-33.0	56	49	45	44	45	43	
		900	8638	-2.07	36			4.57	4077	-51.6	57	50	48	46	48	48	
42" x 36"	10.50	180	1818	-0.08	12	1067 x 914	0.98	0.91	858	-2.1	49	41	31	26	23	16	
		360	3635	-0.33	22			1.83	1716	-8.2	53	45	38	35	34	30	
		540	5453	-0.75	29			2.74	2573	-18.6	55	47	43	40	40	38	
		720	7270	-1.33	33			3.66	3431	-33.0	56	49	46	44	45	44	
42" x 38"	11.08	180	1921	-0.08	12	1067 x 965	1.03	0.91	906	-2.1	41	32	22	17	14	-	
		360	3841	-0.33	23			1.83	1813	-8.2	44	36	30	26	25	21	
		540	5762	-0.75	29			2.74	2719	-18.6	46	39	34	31	31	29	
		720	7683	-1.33	33			3.66	3626	-33.0	47	40	37	35	36	35	
		900	9604	-2.07	37			4.57	4532	-51.6	48	42	39	38	40	39	
48" x 36"	12.00	180	2082	-0.08	12	1219 x 914	1.11	0.91	983	-2.1	50	41	32	27	23	17	
		360	4164	-0.33	23			1.83	1965	-8.2	53	46	39	36	34	31	
		540	6246	-0.75	29			2.74	2948	-18.6	55	48	43	41	41	39	
		720	8328	-1.33	34			3.66	3930	-33.0	56	50	46	44	46	44	
44" x 44"	13.44	180	2338	-0.08	13	1118 x 1118	1.25	0.91	1104	-2.1	51	42	32	27	24	18	
		360	4676	-0.33	23			1.83	2207	-8.2	54	46	40	36	35	31	
		540	7015	-0.75	30			2.74	3311	-18.6	56	49	44	41	42	39	
		720	9353	-1.33	34			3.66	4414	-33.0	57	50	47	45	46	45	
		900	11691	-2.07	38			4.57	5518	-51.6	58	52	49	48	50	49	
46" x 46"	14.69	180	2559	-0.08	13	1168 x 1168	1.37	0.91	1208	-2.1	51	42	33	28	24	18	
		360	5119	-0.33	24			1.83	2416	-8.2	54	47	40	37	35	32	
		540	7678	-0.75	30			2.74	3624	-18.6	56	49	44	42	42	40	
		720	10238	-1.33	35			3.66	4832	-33.0	57	51	47	45	47	45	
48" x 48"	16.00	180	2791	-0.08	13	1219 x 1219	1.49	0.91	1317	-2.1	51	43	33	28	25	18	
		360	5581	-0.33	24			1.83	2634	-8.2	55	47	40	37	36	32	
		540	8372	-0.75	30			2.74	3951	-18.6	56	49	45	42	42	40	
		720	11163	-1.33	35			3.66	5268	-33.0	58	51	48	46	47	46	
		900	13954	-2.07	38			4.57	6585	-51.6	59	52	50	49	51	50	

NOTES: S580P maximum unit size is 48"x36". NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> 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. S580P maximum unit size is 48"x36".