

S480 Performance Data

IP/METRIC DATA: S480, 0° 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	-0.35	12	152	0.02	2.54	45	-8.7	29	26	27	21	15	-	
		700	134	-0.69	20			3.56	63	-17.1	35	31	32	29	25	21	
		900	172	-1.14	25			4.57	81	-28.3	40	36	36	35	34	29	
		1100	211	-1.70	30			5.59	99	-42.3	44	39	39	40	40	36	
		1300	249	-2.37	33			6.60	117	-59.0	47	41	42	44	45	42	
10" x 6"	0.42	500	169	-0.35	14	254	0.04	2.54	80	-8.7	31	28	29	23	17	12	
		700	236	-0.69	22			3.56	111	-17.1	38	34	35	31	28	23	
		900	304	-1.14	28			4.57	143	-28.3	43	38	39	37	36	32	
		1100	371	-1.70	32			5.59	175	-42.3	46	41	42	42	43	39	
		1300	438	-2.37	36			6.60	207	-59.0	50	44	44	46	48	44	
12" x 6"	0.50	500	205	-0.35	15	305	0.05	2.54	97	-8.7	32	29	30	24	18	13	
		700	287	-0.69	23			3.56	136	-17.1	38	35	35	32	29	24	
		900	369	-1.14	29			4.57	174	-28.3	43	39	39	38	37	33	
		1100	451	-1.70	33			5.59	213	-42.3	47	42	43	43	43	39	
		1300	533	-2.37	37			6.60	252	-59.0	51	45	45	47	49	45	
12" x 8"	0.67	500	283	-0.35	17	305	0.06	2.54	134	-8.7	33	31	32	26	19	14	
		700	396	-0.69	24			3.56	187	-17.1	40	36	37	34	30	25	
		900	510	-1.14	30			4.57	241	-28.3	45	40	41	40	38	34	
		1100	623	-1.70	34			5.59	294	-42.3	49	44	44	44	45	41	
		1300	736	-2.37	38			6.60	348	-59.0	52	46	47	48	50	47	
18" x 6"	0.75	500	314	-0.35	17	457	0.07	2.54	148	-8.7	34	31	32	26	20	14	
		700	440	-0.69	25			3.56	208	-17.1	40	37	37	34	31	26	
		900	566	-1.14	30			4.57	267	-28.3	45	41	41	40	39	34	
		1100	692	-1.70	35			5.59	326	-42.3	49	44	45	45	45	41	
		1300	818	-2.37	39			6.60	386	-59.0	52	47	47	49	51	47	
22" x 6"	0.92	500	387	-0.35	18	559	0.09	2.54	183	-8.7	35	32	33	27	21	15	
		700	542	-0.69	26			3.56	256	-17.1	41	38	38	35	32	27	
		900	697	-1.14	31			4.57	329	-28.3	46	42	42	41	40	35	
		1100	852	-1.70	36			5.59	402	-42.3	50	45	45	46	46	42	
		1300	1007	-2.37	40			6.60	475	-59.0	53	48	48	50	52	48	
18" x 10"	1.25	500	554	-0.35	20	457	0.12	2.54	261	-8.7	36	34	35	29	22	17	
		700	776	-0.69	27			3.56	366	-17.1	43	39	40	37	33	28	
		900	997	-1.14	33			4.57	471	-28.3	48	43	44	43	41	37	
		1100	1219	-1.70	37			5.59	575	-42.3	52	47	47	47	48	44	
		1300	1440	-2.37	41			6.60	680	-59.0	55	49	50	51	53	50	
27" x 8"	1.50	500	661	-0.35	20	686	0.14	2.54	312	-8.7	37	35	35	29	23	18	
		700	925	-0.69	28			3.56	437	-17.1	44	40	41	37	34	29	
		900	1189	-1.14	34			4.57	561	-28.3	49	44	45	43	42	38	
		1100	1454	-1.70	38			5.59	686	-42.3	52	47	48	48	49	45	
		1300	1718	-2.37	42			6.60	811	-59.0	56	50	50	52	54	50	
24" x 10"	1.67	400	597	-0.22	16	610	0.15	2.03	282	-5.6	33	31	32	25	16	11	
		600	896	-0.51	25			3.05	423	-12.6	41	38	39	34	30	25	
		800	1195	-0.90	31			4.06	564	-22.4	47	43	43	41	39	34	
		1000	1493	-1.40	36			5.08	705	-34.9	51	46	47	46	46	42	
		1200	1792	-2.02	41			6.10	846	-50.3	55	49	50	51	52	48	
16" x 16"	1.78	400	646	-0.22	16	406	0.17	2.03	305	-5.6	34	32	33	25	17	11	
		600	969	-0.51	25			3.05	457	-12.6	42	38	39	35	30	25	
		800	1292	-0.90	32			4.06	610	-22.4	47	43	44	42	39	35	
		1000	1615	-1.40	37			5.08	762	-34.9	52	47	47	47	46	42	
		1200	1938	-2.02	41			6.10	915	-50.3	55	50	50	51	52	48	
18" x 18"	2.25	400	827	-0.22	17	457	0.21	2.03	390	-5.6	35	33	34	26	18	12	
		600	1240	-0.51	26			3.05	585	-12.6	43	39	40	36	31	26	
		800	1653	-0.90	33			4.06	780	-22.4	48	44	45	43	40	36	
		1000	2066	-1.40	38			5.08	975	-34.9	53	48	48	48	48	43	
		1200	2480	-2.02	42			6.10	1170	-50.3	56	51	51	52	53	50	

RETURN GRILLES

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NOTE: See notes on page J1-47.

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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	400	914	-.022	18	762 x 305	0.23	2.03	431	-5.6	35	33	34	27	18	13	
		600	1371	-.051	27			3.05	647	-12.6	43	40	41	36	31	26	
		800	1828	-.090	33			4.06	863	-22.4	49	45	45	43	41	36	
		1000	2285	-.140	38			5.08	1078	-34.9	53	48	49	48	48	44	
		1200	2742	-.202	42			6.10	1294	-50.3	57	51	52	53	54	50	
20" x 20"	2.78	300	772	-.013	12	508 x 508	0.26	1.52	364	-3.1	30	29	30	20	-	-	
		500	1287	-.035	23			2.54	607	-8.7	40	37	38	32	26	21	
		700	1801	-.069	31			3.56	850	-17.1	47	43	44	40	37	32	
		900	2316	-.114	36			4.57	1093	-28.3	52	47	48	46	45	41	
		1100	2831	-.170	41			5.59	1336	-42.3	55	50	51	51	52	48	
30" x 16"	3.33	300	929	-.013	13	762 x 406	0.31	1.52	439	-3.1	31	30	31	21	-	-	
		500	1549	-.035	24			2.54	731	-8.7	41	38	39	33	27	22	
		700	2168	-.069	32			3.56	1023	-17.1	47	44	44	41	38	33	
		900	2788	-.114	37			4.57	1316	-28.3	52	48	48	47	46	42	
		1100	3407	-.170	42			5.59	1608	-42.3	56	51	52	52	52	48	
36" x 14"	3.50	300	973	-.013	13	914 x 356	0.33	1.52	459	-3.1	31	30	31	21	11	-	
		500	1622	-.035	24			2.54	765	-8.7	41	39	39	33	27	22	
		700	2270	-.069	32			3.56	1072	-17.1	48	44	45	41	38	33	
		900	2919	-.114	37			4.57	1378	-28.3	53	48	49	47	46	42	
		1100	3568	-.170	42			5.59	1684	-42.3	56	51	52	52	53	49	
30" x 18"	3.75	300	1051	-.013	13	762 x 457	0.35	1.52	496	-3.1	31	31	32	22	11	-	
		500	1752	-.035	25			2.54	827	-8.7	41	39	40	34	27	22	
		700	2453	-.069	32			3.56	1158	-17.1	48	44	45	42	38	34	
		900	3154	-.114	38			4.57	1488	-28.3	53	48	49	48	46	42	
		1100	3854	-.170	42			5.59	1819	-42.3	57	52	52	52	53	49	
36" x 18"	4.50	200	845	-.006	-	914 x 457	0.42	1.02	399	-1.4	24	25	26	13	-	-	
		400	1689	-.022	20			2.03	797	-5.6	38	36	37	29	21	15	
		600	2534	-.051	30			3.05	1196	-12.6	46	43	43	39	34	29	
		800	3378	-.090	36			4.06	1594	-22.4	51	47	48	46	43	39	
		1000	4223	-.140	41			5.08	1993	-34.9	56	51	51	51	51	47	
42" x 18"	5.25	200	988	-.006	-	1067 x 457	0.49	1.02	466	-1.4	25	26	27	14	-	-	
		400	1977	-.022	21			2.03	933	-5.6	39	37	38	30	22	16	
		600	2965	-.051	30			3.05	1399	-12.6	46	43	44	40	35	30	
		800	3953	-.090	37			4.06	1866	-22.4	52	48	49	46	44	40	
		1000	4941	-.140	42			5.08	2332	-34.9	56	52	52	52	51	47	
30" x 28"	5.83	200	1107	-.006	-	762 x 711	0.54	1.02	522	-1.4	26	26	27	14	-	-	
		400	2214	-.022	22			2.03	1045	-5.6	39	37	38	30	22	17	
		600	3321	-.051	31			3.05	1567	-12.6	47	44	45	40	35	30	
		800	4428	-.090	37			4.06	2090	-22.4	53	49	49	47	45	40	
		1000	5535	-.140	42			5.08	2612	-34.9	57	52	53	52	52	48	
30" x 30"	6.25	200	1188	-.006	-	762 x 762	0.58	1.02	561	-1.4	26	26	27	14	-	-	
		400	2377	-.022	22			2.03	1122	-5.6	39	38	38	31	23	17	
		600	3565	-.051	31			3.05	1682	-12.6	47	44	45	40	36	31	
		800	4753	-.090	37			4.06	2243	-22.4	53	49	49	47	45	40	
		1000	5941	-.140	42			5.08	2804	-34.9	57	52	53	53	52	48	
46" x 22"	7.03	200	1336	-.006	-	1168 x 559	0.65	1.02	630	-1.4	26	27	28	15	-	-	
		400	2671	-.022	22			2.03	1261	-5.6	40	38	39	31	23	17	
		600	4007	-.051	32			3.05	1891	-12.6	48	45	45	41	36	31	
		800	5342	-.090	38			4.06	2521	-22.4	53	49	50	48	46	41	
		1000	6678	-.140	43			5.08	3151	-34.9	58	53	54	53	53	49	
36" x 30"	7.50	200	1432	-.006	-	914 x 762	0.70	1.02	676	-1.4	27	27	28	15	-	-	
		400	2864	-.022	23			2.03	1352	-5.6	40	38	39	32	23	18	
		600	4296	-.051	32			3.05	2028	-12.6	48	45	46	41	37	31	
		800	5728	-.090	38			4.06	2703	-22.4	54	50	50	48	46	41	
		1000	7160	-.140	43			5.08	3379	-34.9	58	53	54	53	53	49	

NOTE: See notes on page J1-47.

RETURN GRILLES

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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	ft ²	FPM	CFM	"WG		mm	m ²	m/s	L/s	Pa							
34" x 34"	8.03	100	768	-.001	-	864 x 864	0.75	0.51	362	-0.4	13	16	18	-	-	-	
		300	2303	-.013	17			1.52	1087	-3.1	35	34	35	25	14	-	
		500	3839	-.035	28			2.54	1812	-8.7	45	42	43	37	31	26	
		700	5374	-.069	36			3.56	2536	-17.1	51	48	48	45	42	37	
		900	6910	-.114	41			4.57	3261	-28.3	56	52	52	51	50	46	
42" x 30"	8.75	100	838	-.001	-	1067 x 762	0.81	0.51	395	-0.4	14	17	18	-	-	-	
		300	2514	-.013	17			1.52	1186	-3.1	35	34	35	25	15	-	
		500	4189	-.035	28			2.54	1977	-8.7	45	43	44	38	31	26	
		700	5865	-.069	36			3.56	2768	-17.1	52	48	49	46	42	37	
		900	7541	-.114	42			4.57	3559	-28.3	57	52	53	52	50	46	
48" x 30"	10.00	100	960	-.001	-	1219 x 762	0.93	0.51	453	-0.4	14	17	19	-	-	-	
		300	2879	-.013	18			1.52	1359	-3.1	36	35	36	26	15	-	
		500	4799	-.035	29			2.54	2265	-8.7	46	43	44	38	32	27	
		700	6718	-.069	37			3.56	3171	-17.1	52	49	49	46	43	38	
		900	8638	-.114	42			4.57	4077	-28.3	57	53	53	52	51	47	
42" x 36"	10.50	100	1010	-.001	-	1067 x 914	0.98	0.51	477	-0.4	15	17	19	-	-	-	
		300	3029	-.013	18			1.52	1430	-3.1	36	35	36	26	16	-	
		500	5049	-.035	29			2.54	2383	-8.7	46	44	44	38	32	27	
		700	7068	-.069	37			3.56	3336	-17.1	53	49	50	46	43	38	
		900	9088	-.114	42			4.57	4289	-28.3	58	53	54	52	51	47	
42" x 38"	11.08	100	1067	-.001	-	1067 x 965	1.03	0.51	504	-0.4	15	18	19	-	-	-	
		300	3201	-.013	18			1.52	1511	-3.1	36	36	37	27	16	-	
		500	5335	-.035	29			2.54	2518	-8.7	46	44	45	39	32	27	
		700	7469	-.069	37			3.56	3525	-17.1	53	49	50	47	43	38	
		900	9604	-.114	43			4.57	4532	-28.3	58	53	54	53	51	47	
48" x 36"	12.00	100	1157	-.001	-	1219 x 914	1.11	0.51	546	-0.4	15	18	19	-	-	-	
		300	3470	-.013	18			1.52	1638	-3.1	37	36	37	27	16	-	
		500	5783	-.035	30			2.54	2729	-8.7	47	44	45	39	33	27	
		700	8096	-.069	37			3.56	3821	-17.1	53	50	50	47	44	39	
		900	10410	-.114	43			4.57	4913	-28.3	58	54	54	53	52	47	
44" x 44"	13.44	100	1299	-.001	-	1118 x 1118	1.25	0.51	613	-0.4	16	19	20	-	-	-	
		300	3897	-.013	19			1.52	1839	-3.1	37	36	37	27	17	11	
		500	6495	-.035	30			2.54	3065	-8.7	47	45	45	40	33	28	
		700	9093	-.069	38			3.56	4291	-17.1	54	50	51	48	44	39	
		900	11691	-.114	44			4.57	5518	-28.3	59	54	55	54	52	48	
46" x 46"	14.69	100	1422	-.001	-	1168 x 1168	1.37	0.51	671	-0.4	12	15	16	-	-	-	
		300	4266	-.013	19			1.52	2013	-3.1	33	33	34	24	13	-	
		500	7110	-.035	31			2.54	3355	-8.7	43	41	42	36	29	24	
		700	9953	-.069	38			3.56	4697	-17.1	50	46	47	44	40	36	
		900	12797	-.114	44			4.57	6040	-28.3	55	50	51	50	48	44	
48" x 48"	16.00	100	1550	-.001	-	1219 x 1219	1.49	0.51	732	-0.4	12	15	17	-	-	-	
		300	4651	-.013	20			1.52	2195	-3.1	34	33	34	24	13	-	
		500	7752	-.035	31			2.54	3659	-8.7	44	41	42	36	30	24	
		700	10853	-.069	39			3.56	5122	-17.1	50	47	47	44	41	36	
		900	13954	-.114	44			4.57	6585	-28.3	55	51	51	50	49	44	

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.