

S480 Performance Data

IP/METRIC DATA: S480, 38° 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	400	77	-.040	15	152	0.02	2.03	36	-10.0	29	27	28	20	12	-	
		600	115	-.090	25			3.05	54	-22.5	40	36	37	32	28	23	
		800	153	-.160	32			4.06	72	-39.9	47	42	43	41	39	34	
		1000	191	-.251	37			5.08	90	-62.4	53	47	48	48	47	43	
		1200	230	-.361	42			6.10	108	-89.9	57	51	52	53	54	50	
10" x 6"	0.42	400	135	-.040	17	254	0.04	2.03	64	-10.0	32	30	31	23	15	-	
		600	202	-.090	27			3.05	95	-22.5	42	39	39	35	30	25	
		800	270	-.160	34			4.06	127	-39.9	49	45	46	44	41	37	
		1000	337	-.251	40			5.08	159	-62.4	55	50	51	50	50	46	
		1200	405	-.361	44			6.10	191	-89.9	60	54	55	56	57	53	
12" x 6"	0.50	400	164	-.040	18	305	0.05	2.03	77	-10.0	33	31	31	24	16	-	
		600	246	-.090	28			3.05	116	-22.5	43	40	40	36	31	26	
		800	328	-.160	35			4.06	155	-39.9	50	46	47	44	42	38	
		1000	410	-.251	41			5.08	194	-62.4	56	51	51	51	51	47	
		1200	492	-.361	45			6.10	232	-89.9	61	55	55	56	58	54	
12" x 8"	0.67	400	227	-.040	20	305	0.06	2.03	107	-10.0	34	32	33	25	17	11	
		600	340	-.090	30			3.05	160	-22.5	44	41	42	37	33	27	
		800	453	-.160	37			4.06	214	-39.9	52	47	48	46	44	39	
		1000	566	-.251	42			5.08	267	-62.4	57	52	53	53	52	48	
		1200	680	-.361	46			6.10	321	-89.9	62	56	57	58	59	55	
18" x 6"	0.75	400	252	-.040	20	457	0.07	2.03	119	-10.0	34	32	33	26	17	12	
		600	377	-.090	30			3.05	178	-22.5	45	41	42	38	33	28	
		800	503	-.160	37			4.06	237	-39.9	52	48	49	46	44	39	
		1000	629	-.251	42			5.08	297	-62.4	58	53	53	53	53	48	
		1200	755	-.361	47			6.10	356	-89.9	63	57	57	58	60	56	
22" x 6"	0.92	300	232	-.023	14	559	0.09	1.52	110	-5.6	28	27	28	18	-	-	
		500	387	-.063	27			2.54	183	-15.6	41	38	39	33	27	22	
		700	542	-.123	35			3.56	256	-30.6	50	46	47	43	40	35	
		900	697	-.203	41			4.57	329	-50.5	56	51	52	51	50	45	
		1100	852	-.303	46			5.59	402	-75.5	61	56	56	57	57	53	
18" x 10"	1.25	300	332	-.023	16	457	0.12	1.52	157	-5.6	30	29	30	20	-	-	
		500	554	-.063	28			2.54	261	-15.6	43	40	41	35	29	23	
		700	776	-.123	36			3.56	366	-30.6	51	47	48	45	42	37	
		900	997	-.203	42			4.57	471	-50.5	58	53	54	52	51	47	
		1100	1219	-.303	47			5.59	575	-75.5	63	58	58	58	59	55	
27" x 8"	1.50	300	396	-.023	16	686	0.14	1.52	187	-5.6	30	29	30	20	-	-	
		500	661	-.063	29			2.54	312	-15.6	43	41	42	36	29	24	
		700	925	-.123	37			3.56	437	-30.6	52	48	49	46	42	37	
		900	1189	-.203	43			4.57	561	-50.5	58	54	54	53	52	48	
		1100	1454	-.303	48			5.59	686	-75.5	64	58	59	59	60	56	
24" x 10"	1.67	300	448	-.023	17	610	0.15	1.52	211	-5.6	31	30	31	21	-	-	
		500	747	-.063	29			2.54	352	-15.6	44	41	42	36	30	25	
		700	1045	-.123	38			3.56	493	-30.6	53	49	50	46	43	38	
		900	1344	-.203	44			4.57	634	-50.5	59	54	55	54	53	48	
		1100	1643	-.303	49			5.59	775	-75.5	64	59	59	60	60	56	
16" x 16"	1.78	300	485	-.023	17	406	0.17	1.52	229	-5.6	31	30	31	21	11	-	
		500	808	-.063	30			2.54	381	-15.6	44	42	43	37	30	25	
		700	1131	-.123	38			3.56	534	-30.6	53	49	50	47	43	38	
		900	1454	-.203	44			4.57	686	-50.5	59	55	55	54	53	48	
		1100	1777	-.303	49			5.59	838	-75.5	64	59	60	60	61	57	
18" x 18"	2.25	300	620	-.023	18	457	0.21	1.52	293	-5.6	32	31	32	23	12	-	
		500	1033	-.063	31			2.54	488	-15.6	45	43	44	38	31	26	
		700	1446	-.123	39			3.56	683	-30.6	54	50	51	48	44	40	
		900	1860	-.203	45			4.57	878	-50.5	60	56	57	55	54	50	
		1100	2273	-.303	50			5.59	1073	-75.5	66	60	61	61	62	58	

NOTE: See notes on page J1-42.

RETURN GRILLES

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S480 Performance Data
IP/METRIC DATA: S480, 38° 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	300	686	-.023	19	762 x 305	0.23	1.52	324	-5.6	33	32	33	23	12	-	
		500	1143	-.063	31			2.54	539	-15.6	46	43	44	38	32	26	
		700	1600	-.123	39			3.56	755	-30.6	54	51	51	48	45	40	
		900	2057	-.203	46			4.57	971	-50.5	61	56	57	56	54	50	
		1100	2514	-.303	50			5.59	1186	-75.5	66	61	61	62	62	58	
20" x 20"	2.78	300	772	-.023	19	508 x 508	0.26	1.52	364	-5.6	33	32	33	24	13	-	
		500	1287	-.063	32			2.54	607	-15.6	46	44	45	39	32	27	
		700	1801	-.123	40			3.56	850	-30.6	55	51	52	49	45	41	
		900	2316	-.203	46			4.57	1093	-50.5	61	57	58	56	55	51	
		1100	2831	-.303	51			5.59	1336	-75.5	66	61	62	62	63	59	
30" x 16"	3.33	300	929	-.023	20	762 x 406	0.31	1.52	439	-5.6	34	33	34	24	14	-	
		500	1549	-.063	33			2.54	731	-15.6	47	45	45	40	33	28	
		700	2168	-.123	41			3.56	1023	-30.6	56	52	53	50	46	41	
		900	2788	-.203	47			4.57	1316	-50.5	62	58	58	57	56	51	
		1100	3407	-.303	52			5.59	1608	-75.5	67	62	63	63	64	60	
36" x 14"	3.50	300	973	-.023	20	914 x 356	0.33	1.52	459	-5.6	34	34	35	25	14	-	
		500	1622	-.063	33			2.54	765	-15.6	47	45	46	40	33	28	
		700	2270	-.123	41			3.56	1072	-30.6	56	52	53	50	46	42	
		900	2919	-.203	47			4.57	1378	-50.5	62	58	59	57	56	52	
		1100	3568	-.303	52			5.59	1684	-75.5	68	62	63	63	64	60	
30" x 18"	3.75	100	350	-.003	-	762 x 457	0.35	0.51	165	-0.6	-	-	11	-	-	-	
		300	1051	-.023	21			1.52	496	-5.6	35	34	35	25	14	-	
		500	1752	-.063	33			2.54	827	-15.6	48	45	46	40	34	28	
		700	2453	-.123	41			3.56	1158	-30.6	56	53	53	50	47	42	
		900	3154	-.203	47			4.57	1488	-50.5	63	58	59	58	56	52	
36" x 18"	4.50	100	422	-.003	-	914 x 457	0.42	0.51	199	-0.6	-	-	12	-	-	-	
		300	1267	-.023	21			1.52	598	-5.6	35	35	36	26	15	-	
		500	2111	-.063	34			2.54	996	-15.6	49	46	47	41	35	29	
		700	2956	-.123	42			3.56	1395	-30.6	57	54	54	51	48	43	
		900	3800	-.203	48			4.57	1794	-50.5	64	59	60	59	57	53	
42" x 18"	5.25	100	494	-.003	-	1067 x 457	0.49	0.51	233	-0.6	-	11	12	-	-	-	
		300	1482	-.023	22			1.52	700	-5.6	36	35	36	26	16	-	
		500	2471	-.063	35			2.54	1166	-15.6	49	47	48	42	35	30	
		700	3459	-.123	43			3.56	1632	-30.6	58	54	55	52	48	43	
		900	4447	-.203	49			4.57	2099	-50.5	64	60	60	59	58	54	
30" x 28"	5.83	100	554	-.003	-	762 x 711	0.54	0.51	261	-0.6	-	12	13	-	-	-	
		300	1661	-.023	23			1.52	784	-5.6	37	36	37	27	16	-	
		500	2768	-.063	35			2.54	1306	-15.6	50	47	48	42	36	30	
		700	3875	-.123	43			3.56	1829	-30.6	58	55	55	52	49	44	
		900	4982	-.203	49			4.57	2351	-50.5	65	60	61	60	58	54	
30" x 30"	6.25	100	594	-.003	-	762 x 762	0.58	0.51	280	-0.6	-	12	13	-	-	-	
		300	1782	-.023	23			1.52	841	-5.6	37	36	37	27	17	-	
		500	2971	-.063	35			2.54	1402	-15.6	50	48	48	43	36	31	
		700	4159	-.123	44			3.56	1963	-30.6	59	55	56	53	49	44	
		900	5347	-.203	50			4.57	2524	-50.5	65	61	61	60	59	54	
46" x 22"	7.03	100	668	-.003	-	1168 x 559	0.65	0.51	315	-0.6	-	12	14	-	-	-	
		300	2003	-.023	23			1.52	945	-5.6	37	37	38	28	17	11	
		500	3339	-.063	36			2.54	1576	-15.6	51	48	49	43	37	31	
		700	4674	-.123	44			3.56	2206	-30.6	59	56	56	53	50	45	
		900	6010	-.203	50			4.57	2836	-50.5	66	61	62	61	59	55	
36" x 30"	7.50	100	716	-.003	-	914 x 762	0.70	0.51	338	-0.6	-	13	14	-	-	-	
		300	2148	-.023	24			1.52	1014	-5.6	38	37	38	28	17	11	
		500	3580	-.063	36			2.54	1690	-15.6	51	48	49	43	37	32	
		700	5012	-.123	44			3.56	2365	-30.6	59	56	57	53	50	45	
		900	6444	-.203	50			4.57	3041	-50.5	66	62	62	61	60	55	

NOTE: See notes on page J1-42.

S480 Performance Data

IP/METRIC DATA: S480, 38° 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	100	768	-.003	-	864 x 864	0.75	0.51	362	-0.6	-	13	14	-	-	-	
		200	1536	-.010	14			1.02	725	-2.5	28	28	30	16	-	-	
		400	3071	-.040	31			2.03	1449	-10.0	45	44	45	37	29	23	
		600	4607	-.090	41			3.05	2174	-22.5	56	53	54	49	44	39	
		800	6142	-.160	48			4.06	2899	-39.9	63	59	60	58	55	51	
42" x 30"	8.75	100	838	-.003	-	1067 x 762	0.81	0.51	395	-0.6	-	13	15	-	-	-	
		200	1676	-.010	15			1.02	791	-2.5	28	29	30	17	-	-	
		400	3352	-.040	31			2.03	1582	-10.0	46	44	45	37	29	23	
		600	5027	-.090	41			3.05	2373	-22.5	56	53	54	50	45	40	
		800	6703	-.160	48			4.06	3164	-39.9	64	60	60	58	56	51	
48" x 30"	10.00	100	960	-.003	-	1219 x 762	0.93	0.51	453	-0.6	11	14	15	-	-	-	
		200	1920	-.010	15			1.02	906	-2.5	29	29	31	17	-	-	
		400	3839	-.040	32			2.03	1812	-10.0	46	45	46	38	30	24	
		600	5759	-.090	42			3.05	2718	-22.5	57	54	55	50	45	40	
		800	7678	-.160	49			4.06	3624	-39.9	64	60	61	59	56	52	
42" x 36"	10.50	100	1010	-.003	-	1067 x 914	0.98	0.51	477	-0.6	11	14	16	-	-	-	
		200	2020	-.010	15			1.02	953	-2.5	29	30	31	18	-	-	
		400	4039	-.040	32			2.03	1906	-10.0	47	45	46	38	30	24	
		600	6059	-.090	42			3.05	2859	-22.5	57	54	55	50	46	41	
		800	8078	-.160	49			4.06	3812	-39.9	64	61	61	59	57	52	
42" x 38"	11.08	100	1067	-.003	-	1067 x 965	1.03	0.51	504	-0.6	11	15	16	-	-	-	
		200	2134	-.010	16			1.02	1007	-2.5	29	30	31	18	-	-	
		400	4268	-.040	32			2.03	2014	-10.0	47	45	46	39	30	24	
		600	6402	-.090	42			3.05	3022	-22.5	57	54	55	51	46	41	
		800	8536	-.160	49			4.06	4029	-39.9	65	61	61	59	57	52	
48" x 36"	12.00	100	1157	-.003	-	1219 x 914	1.11	0.51	546	-0.6	12	15	16	-	-	-	
		200	2313	-.010	16			1.02	1092	-2.5	30	30	31	18	-	-	
		400	4627	-.040	33			2.03	2183	-10.0	47	46	47	39	31	25	
		600	6940	-.090	43			3.05	3275	-22.5	58	55	55	51	46	41	
		800	9253	-.160	50			4.06	4367	-39.9	65	61	62	60	57	53	
44" x 44"	13.44	100	1299	-.003	-	1118 x 1118	1.25	0.51	613	-0.6	12	15	17	-	-	-	
		200	2598	-.010	16			1.02	1226	-2.5	30	31	32	19	-	-	
		400	5196	-.040	33			2.03	2452	-10.0	48	46	47	39	31	25	
		600	7794	-.090	43			3.05	3678	-22.5	58	55	56	52	47	42	
		800	10392	-.160	50			4.06	4904	-39.9	65	62	62	60	58	53	
46" x 46"	14.69	100	1422	-.003	-	1168 x 1168	1.37	0.51	671	-0.6	-	12	13	-	-	-	
		200	2844	-.010	17			1.02	1342	-2.5	26	27	28	15	-	-	
		400	5688	-.040	34			2.03	2684	-10.0	44	42	43	36	27	21	
		600	8532	-.090	44			3.05	4026	-22.5	54	51	52	48	43	38	
		800	11375	-.160	51			4.06	5369	-39.9	62	58	58	56	54	49	
48" x 48"	16.00	100	1550	-.003	-	1219 x 1219	1.49	0.51	732	-0.6	-	12	13	-	-	-	
		200	3101	-.010	17			1.02	1463	-2.5	27	27	28	15	-	-	
		400	6202	-.040	34			2.03	2927	-10.0	44	43	44	36	28	22	
		600	9302	-.090	44			3.05	4390	-22.5	55	52	52	48	43	38	
		800	12403	-.160	51			4.06	5854	-39.9	62	58	59	57	54	50	

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