

PLQ, 5PLQ, PLQLT | Plaque Face

PLQ, 5PLQ, PLQLT, 5PLQLT Performance Data: Horizontal Throw

IP/METRIC DATA: PLQ, 5PLQ, PLQLT, 5PLQLT, 24"x24" PANEL, ROUND NECK (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	Throw		Neck Vel	Air Flow	Ps	Pt	Throw	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m							
6" Dia.	200	39	0.000	.003	0 - 0 - 1	-	1.02	19	0.1	0.7	0.0 - 0.1 - 0.4	-	-	-	-	-	-	
	300	59	0.001	.006	0 - 1 - 3	-	1.52	28	0.2	1.6	0.1 - 0.2 - 0.8	14	-	-	-	-	-	
	500	98	0.002	.017	1 - 2 - 4	-	2.54	46	0.4	4.3	0.3 - 0.7 - 1.3	28	21	17	-	-	-	
	600	118	0.002	.025	1 - 3 - 5	-	3.05	56	0.6	6.2	0.4 - 0.8 - 1.6	33	27	23	11	-	-	
	700	137	0.003	.034	2 - 3 - 6	-	3.56	65	0.8	8.4	0.6 - 0.9 - 1.9	37	31	28	17	-	-	
	800	157	0.004	.044	2 - 4 - 7	13	4.06	74	1.1	11.0	0.7 - 1.1 - 2.1	41	35	32	22	11	-	
	900	177	0.006	.056	3 - 4 - 8	17	4.57	83	1.4	14.0	0.8 - 1.2 - 2.4	44	39	36	26	16	-	
	1000	196	0.007	.069	3 - 4 - 9	21	5.08	93	1.7	17.2	0.9 - 1.3 - 2.7	47	42	40	30	21	-	
1100	216	0.008	.084	3 - 5 - 10	25	5.59	102	2.1	20.8	1.0 - 1.5 - 2.9	49	45	43	33	25	-		
8" Dia.	200	70	0.002	.005	0 - 1 - 3	-	1.02	33	0.5	1.1	0.1 - 0.3 - 0.9	-	-	-	-	-	-	
	300	105	0.005	.010	1 - 2 - 4	-	1.52	49	1.1	2.5	0.3 - 0.6 - 1.3	19	-	-	-	-	-	
	500	175	0.012	.028	2 - 4 - 7	-	2.54	82	3.1	7.0	0.7 - 1.1 - 2.2	33	25	20	-	-	-	
	600	209	0.018	.040	3 - 4 - 9	-	3.05	99	4.5	10.1	0.9 - 1.3 - 2.6	38	30	26	15	-	-	
	700	244	0.024	.055	3 - 5 - 10	12	3.56	115	6.1	13.7	1.0 - 1.5 - 3.1	42	35	31	21	11	-	
	800	279	0.032	.072	4 - 6 - 12	17	4.06	132	8.0	17.9	1.2 - 1.8 - 3.5	46	39	36	26	16	-	
	900	314	0.040	.091	4 - 6 - 12	21	4.57	148	10.1	22.7	1.3 - 2.0 - 3.7	49	43	39	30	21	-	
	1000	349	0.050	.112	5 - 7 - 13	25	5.08	165	12.4	28.0	1.5 - 2.2 - 3.9	52	46	43	34	26	11	
1100	384	0.060	.136	5 - 8 - 14	29	5.59	181	15.1	33.8	1.6 - 2.4 - 4.1	54	49	46	38	30	16		
10" Dia.	200	109	0.004	.007	1 - 2 - 4	-	1.02	51	1.1	1.7	0.2 - 0.5 - 1.3	12	-	-	-	-	-	
	300	164	0.009	.015	2 - 3 - 6	-	1.52	77	2.4	3.8	0.5 - 0.9 - 1.9	23	12	-	-	-	-	
	500	273	0.026	.042	3 - 5 - 10	-	2.54	129	6.6	10.4	1.0 - 1.6 - 3.1	37	28	23	12	-	-	
	600	327	0.038	.060	4 - 6 - 12	-	3.05	154	9.4	15.0	1.3 - 1.9 - 3.8	42	33	29	19	-	-	
	700	382	0.052	.082	5 - 7 - 13	15	3.56	180	12.9	20.5	1.5 - 2.2 - 4.1	46	38	34	24	15	-	
	800	436	0.067	.107	5 - 8 - 14	20	4.06	206	16.8	26.7	1.7 - 2.5 - 4.4	49	42	38	29	20	-	
	900	491	0.085	.136	6 - 9 - 15	24	4.57	232	21.3	33.8	1.9 - 2.8 - 4.6	53	46	42	34	25	12	
	1000	545	0.105	.168	7 - 10 - 16	28	5.08	257	26.2	41.8	2.1 - 3.1 - 4.9	55	49	45	37	30	17	
1100	600	0.128	.203	8 - 11 - 17	32	5.59	283	31.8	50.5	2.3 - 3.4 - 5.1	58	52	49	41	34	22		
12" Dia.	200	157	0.007	.009	1 - 3 - 5	-	1.02	74	1.7	2.3	0.3 - 0.8 - 1.6	15	-	-	-	-	-	
	300	236	0.016	.021	3 - 4 - 8	-	1.52	111	3.9	5.3	0.8 - 1.2 - 2.5	26	14	-	-	-	-	
	500	393	0.043	.059	4 - 7 - 13	-	2.54	185	10.8	14.7	1.4 - 2.1 - 4.1	40	30	25	15	-	-	
	600	471	0.062	.085	5 - 8 - 15	12	3.05	222	15.5	21.1	1.6 - 2.5 - 4.6	45	36	31	21	11	-	
	700	550	0.085	.115	6 - 9 - 16	18	3.56	259	21.1	28.7	1.9 - 2.9 - 4.9	49	40	36	27	18	-	
	800	628	0.111	.151	7 - 11 - 17	23	4.06	297	27.6	37.5	2.2 - 3.3 - 5.3	53	44	40	32	23	12	
	900	707	0.140	.191	8 - 12 - 18	27	4.57	334	34.9	47.5	2.5 - 3.7 - 5.6	56	48	44	36	28	17	
	1000	785	0.173	.236	9 - 13 - 19	31	5.08	371	43.1	58.6	2.7 - 4.1 - 5.9	59	51	47	40	33	22	
1100	864	0.210	.285	10 - 14 - 20	34	5.59	408	52.2	71.0	3.0 - 4.4 - 6.2	61	54	51	44	37	26		
14" Dia.	200	214	0.010	.013	2 - 3 - 7	-	1.02	101	2.5	3.1	0.5 - 1.0 - 2.0	18	-	-	-	-	-	
	300	321	0.023	.028	3 - 5 - 10	-	1.52	151	5.7	7.1	1.0 - 1.5 - 3.1	29	16	-	-	-	-	
	500	535	0.063	.079	6 - 8 - 16	-	2.54	252	15.8	19.6	1.7 - 2.5 - 4.9	42	32	26	17	-	-	
	600	641	0.091	.114	7 - 10 - 17	14	3.05	303	22.7	28.3	2.0 - 3.1 - 5.3	47	38	32	24	14	-	
	700	748	0.124	.155	8 - 12 - 19	20	3.56	353	30.9	38.5	2.4 - 3.6 - 5.7	52	42	37	29	20	-	
	800	855	0.162	.202	9 - 13 - 20	25	4.06	404	40.4	50.3	2.7 - 4.1 - 6.1	55	46	42	34	26	16	
	900	962	0.205	.256	10 - 15 - 21	29	4.57	454	51.1	63.7	3.1 - 4.6 - 6.5	58	50	46	39	31	21	
	1000	1069	0.253	.316	11 - 16 - 23	33	5.08	505	63.1	78.6	3.4 - 4.9 - 6.9	61	53	49	43	35	26	
1100	1176	0.306	.382	12 - 17 - 24	37	5.59	555	76.3	95.1	3.7 - 5.1 - 7.2	64	56	52	46	39	30		
15" Dia.	200	245	0.012	.014	2 - 4 - 7	-	1.02	116	3.0	3.6	0.6 - 1.1 - 2.2	19	-	-	-	-	-	
	300	368	0.027	.032	4 - 6 - 11	-	1.52	174	6.7	8.1	1.1 - 1.7 - 3.4	30	17	-	-	-	-	
	500	614	0.074	.090	6 - 9 - 17	-	2.54	290	18.5	22.4	1.9 - 2.8 - 5.2	44	33	27	18	-	-	
	600	736	0.107	.130	7 - 11 - 19	15	3.05	347	26.7	32.3	2.2 - 3.4 - 5.7	49	38	33	25	15	-	
	700	859	0.146	.177	9 - 13 - 20	21	3.56	405	36.4	44.0	2.6 - 3.9 - 6.1	53	43	38	30	22	11	
	800	982	0.191	.231	10 - 15 - 22	26	4.06	463	47.5	57.4	3.0 - 4.5 - 6.6	56	47	43	35	27	17	
	900	1104	0.241	.292	11 - 16 - 23	30	4.57	521	60.1	72.7	3.4 - 4.9 - 7.0	59	51	47	40	32	23	
	1000	1227	0.298	.360	12 - 17 - 24	34	5.08	579	74.2	89.7	3.7 - 5.2 - 7.3	62	54	50	44	37	28	
1100	1350	0.361	.436	14 - 18 - 25	38	5.59	637	89.8	108.6	4.1 - 5.5 - 7.7	65	57	53	47	41	32		

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). 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. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection software for performance data not shown, including octave band data.

ARCHITECTURAL & PLAQUE DIFFUSERS

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