

PLQIMP | Integrated Multi-port Ring, Square Plaque Face

PLQIMP Performance Data: Horizontal Throw

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

ARCHITECTURAL & PLAQUE DIFFUSERS

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Pt	Ps	Throw		Neck Vel	Air Flow	Pt	Ps	Throw	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m							
6" Dia.	400	79	.017	0.007	0 - 0 - 0	-	2.03	37	4.2	1.8	0.0 - 0.0 - 0.1	20	14	-	-	-	-	
	500	98	.027	0.011	0 - 0 - 1	-	2.54	46	6.6	2.8	0.0 - 0.1 - 0.2	24	19	16	11	-	-	
	600	118	.038	0.016	0 - 0 - 1	-	3.05	56	9.6	4.0	0.0 - 0.1 - 0.3	28	24	21	17	-	-	
	700	137	.052	0.022	0 - 0 - 1	-	3.56	65	13.0	5.4	0.1 - 0.1 - 0.5	31	28	25	21	15	-	
	800	157	.068	0.028	0 - 0 - 2	14	4.06	74	17.0	7.1	0.1 - 0.1 - 0.6	34	31	29	25	19	-	
	1000	196	.107	0.044	0 - 1 - 3	21	5.08	93	26.5	11.0	0.1 - 0.2 - 0.9	38	37	35	32	26	17	
	1200	236	.154	0.064	0 - 1 - 4	26	6.10	111	38.2	15.9	0.1 - 0.3 - 1.3	42	42	40	37	32	22	
	1400	275	.209	0.087	1 - 1 - 6	31	7.11	130	52.0	21.6	0.2 - 0.5 - 1.8	45	46	45	42	36	27	
8" Dia.	200	70	.005	0.002	0 - 0 - 0	-	1.02	33	1.2	0.6	0.0 - 0.0 - 0.2	13	-	-	-	-	-	
	300	105	.011	0.005	0 - 0 - 1	-	1.52	49	2.7	1.3	0.0 - 0.1 - 0.3	21	15	-	-	-	-	
	500	175	.030	0.015	0 - 1 - 3	-	2.54	82	7.6	3.7	0.1 - 0.2 - 0.9	32	28	25	20	13	-	
	600	209	.044	0.021	0 - 1 - 4	14	3.05	99	10.9	5.3	0.2 - 0.3 - 1.4	36	32	30	25	19	-	
	700	244	.060	0.029	1 - 2 - 6	19	3.56	115	14.8	7.2	0.2 - 0.5 - 1.8	39	36	34	30	24	15	
	800	279	.078	0.038	1 - 2 - 7	23	4.06	132	19.4	9.4	0.3 - 0.6 - 2.3	41	40	38	34	28	19	
	1000	349	.121	0.059	1 - 3 - 9	30	5.08	165	30.2	14.7	0.4 - 0.9 - 2.8	46	45	44	41	35	26	
	1200	419	.175	0.085	2 - 4 - 11	35	6.10	198	43.6	21.2	0.6 - 1.4 - 3.4	50	50	49	46	40	32	
10" Dia.	200	109	.016	0.013	0 - 0 - 2	-	1.02	51	3.9	3.3	0.1 - 0.1 - 0.5	19	11	-	-	-	-	
	300	164	.035	0.030	0 - 1 - 4	-	1.52	77	8.8	7.4	0.1 - 0.3 - 1.2	28	21	17	11	-	-	
	500	273	.098	0.082	1 - 3 - 8	16	2.54	129	24.3	20.4	0.4 - 0.9 - 2.5	38	34	31	27	20	12	
	600	327	.141	0.118	2 - 4 - 10	21	3.05	154	35.0	29.4	0.5 - 1.2 - 3.0	42	39	36	32	26	18	
	700	382	.191	0.161	2 - 5 - 12	26	3.56	180	47.7	40.1	0.7 - 1.7 - 3.5	45	43	41	37	30	23	
	800	436	.250	0.210	3 - 7 - 13	30	4.06	206	62.3	52.3	1.0 - 2.0 - 4.0	47	46	44	41	35	27	
	900	491	.316	0.266	4 - 7 - 15	33	4.57	232	78.8	66.2	1.2 - 2.3 - 4.5	50	49	48	44	38	31	
	1000	545	.391	0.328	5 - 8 - 17	36	5.08	257	97.3	81.8	1.5 - 2.5 - 5.0	52	52	51	47	41	34	
12" Dia.	100	107	.011	0.010	2 - 4 - 7	-	0.51	50	2.8	2.6	0.7 - 1.1 - 2.2	14	-	-	-	-	-	
	200	214	.044	0.042	5 - 7 - 13	-	1.02	101	11.0	10.4	1.5 - 2.2 - 3.9	28	21	16	-	-	-	
	300	321	.100	0.094	7 - 11 - 16	11	1.52	151	24.8	23.5	2.2 - 3.4 - 4.8	37	31	27	22	14	-	
	400	428	.177	0.167	10 - 13 - 18	20	2.03	202	44.2	41.7	3.0 - 3.9 - 5.5	42	38	35	30	23	17	
	500	535	.277	0.262	12 - 14 - 20	26	2.54	252	69.0	65.1	3.6 - 4.4 - 6.2	47	44	41	37	30	24	
	600	641	.399	0.377	13 - 16 - 22	32	3.05	303	99.4	93.8	3.9 - 4.8 - 6.7	51	49	46	42	36	30	
	700	748	.543	0.513	14 - 17 - 24	36	3.56	353	135.3	127.7	4.2 - 5.2 - 7.3	54	53	51	47	41	35	
	800	855	.710	0.670	15 - 18 - 26	40	4.06	404	176.7	166.8	4.5 - 5.5 - 7.8	57	56	54	51	45	39	
14" Dia.	200	962	.898	0.848	16 - 19 - 27	44	4.57	454	223.6	211.1	4.8 - 5.8 - 8.3	59	59	58	55	48	43	

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.

P
L
Q
I
M
P

© KRUEGER 2012