

**PLQ Performance Data: Horizontal Throw**

IP/METRIC DATA: PLQ, 12"x12" 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	0.010	.012	1 - 1 - 3	-	1.02	19	2.4	3.0	0.2 - 0.4 - 0.8	-	-	-	-	-	-
	300	59	0.022	.027	1 - 2 - 4	-	1.52	28	5.4	6.8	0.4 - 0.6 - 1.2	-	-	-	-	-	-
	500	98	0.060	.076	2 - 3 - 7	-	2.54	46	15.0	18.9	0.7 - 1.0 - 2.0	-	12	18	16	11	-
	600	118	0.087	.109	3 - 4 - 8	<b>12</b>	3.05	56	21.6	27.2	0.8 - 1.2 - 2.4	13	18	24	22	17	12
	700	137	0.118	.149	3 - 5 - 9	<b>17</b>	3.56	65	29.4	37.0	0.9 - 1.4 - 2.8	18	23	29	27	22	17
	800	157	0.154	.194	3 - 5 - 10	<b>21</b>	4.06	74	38.4	48.4	1.1 - 1.6 - 3.2	22	27	33	31	26	21
	900	177	0.195	.246	4 - 6 - 12	<b>24</b>	4.57	83	48.7	61.2	1.2 - 1.8 - 3.6	25	30	36	34	29	24
	1000	196	0.241	.304	4 - 7 - 13	<b>28</b>	5.08	93	60.1	75.6	1.3 - 2.0 - 4.0	29	34	40	38	33	28
	1100	216	0.292	.367	5 - 7 - 14	<b>30</b>	5.59	102	72.7	91.5	1.5 - 2.2 - 4.4	31	36	42	40	35	30
7" Dia.	200	53	0.012	.015	1 - 2 - 3	-	1.02	25	3.0	3.6	0.3 - 0.5 - 0.9	-	-	-	-	-	-
	300	80	0.027	.033	2 - 2 - 5	-	1.52	38	6.8	8.2	0.5 - 0.7 - 1.4	-	-	-	-	-	-
	500	134	0.076	.091	3 - 4 - 8	-	2.54	63	18.8	22.7	0.8 - 1.2 - 2.3	-	12	18	16	11	-
	600	160	0.109	.131	3 - 5 - 9	<b>12</b>	3.05	76	27.1	32.7	0.9 - 1.4 - 2.8	13	18	24	22	17	12
	700	187	0.148	.179	4 - 5 - 11	<b>17</b>	3.56	88	36.9	44.5	1.1 - 1.6 - 3.2	18	23	29	27	22	17
	800	214	0.193	.233	4 - 6 - 12	<b>21</b>	4.06	101	48.1	58.1	1.2 - 1.8 - 3.7	22	27	33	31	26	21
	900	241	0.245	.295	5 - 7 - 14	<b>24</b>	4.57	114	60.9	73.5	1.4 - 2.1 - 4.2	25	30	36	34	29	24
	1000	267	0.302	.364	5 - 8 - 15	<b>28</b>	5.08	126	75.2	90.7	1.5 - 2.3 - 4.6	29	34	40	38	33	28
	1100	294	0.365	.441	6 - 8 - 17	<b>31</b>	5.59	139	91.0	109.8	1.7 - 2.5 - 5.1	32	37	43	41	36	31
8" Dia.	200	70	0.015	.017	1 - 2 - 3	-	1.02	33	3.7	4.3	0.3 - 0.5 - 1.1	-	-	-	-	-	-
	300	105	0.034	.039	2 - 3 - 5	-	1.52	49	8.3	9.7	0.5 - 0.8 - 1.6	-	-	-	-	-	-
	500	175	0.093	.109	3 - 4 - 9	-	2.54	82	23.2	27.0	0.9 - 1.3 - 2.6	-	13	19	17	12	-
	600	209	0.134	.156	3 - 5 - 10	<b>12</b>	3.05	99	33.4	39.0	1.1 - 1.6 - 3.2	13	18	24	22	17	12
	700	244	0.182	.213	4 - 6 - 12	<b>17</b>	3.56	115	45.4	53.0	1.2 - 1.8 - 3.7	18	23	29	27	22	17
	800	279	0.238	.278	5 - 7 - 14	<b>21</b>	4.06	132	59.3	69.2	1.4 - 2.1 - 4.2	22	27	33	31	26	21
	900	314	0.301	.352	5 - 8 - 16	<b>24</b>	4.57	148	75.1	87.6	1.6 - 2.4 - 4.8	25	30	36	34	29	24
	1000	349	0.372	.435	6 - 9 - 17	<b>28</b>	5.08	165	92.7	108.2	1.8 - 2.6 - 5.3	29	34	40	38	33	28
	1100	384	0.450	.526	6 - 10 - 19	<b>31</b>	5.59	181	112.1	130.9	1.9 - 2.9 - 5.8	32	37	43	41	36	31

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<sup>-12</sup> 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.

