



# Performance Data

**LAB: 2 Slot 1" width**

8" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	100	135	170	205	240	270	305	340
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.012	0.021	0.033	0.046	0.064	0.082	0.103	0.127
		Static Pressure	0.006	0.011	0.017	0.024	0.033	0.042	0.053	0.065
		NC (Noise Criteria)	-	-	-	15	15	15	19	23
		Throw	1   3   11	2   5   15	4   8   19	5   11   22	7   14   24	9   15   26	11   17   27	13   19   29
10" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	105	150	185	235	290	325	380	425
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.011	0.019	0.030	0.042	0.061	0.078	0.097	0.122
		Static Pressure	0.005	0.009	0.014	0.020	0.030	0.038	0.047	0.060
		NC (Noise Criteria)	-	-	-	-	-	15	17	22
		Throw	1   3   11	2   5   15	5   9   20	6   12   23	8   15   25	10   16   27	12   18   28	14   20   30
12" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	110	160	205	270	350	390	475	530
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.011	0.018	0.029	0.040	0.056	0.072	0.090	0.112
		Static Pressure	0.005	0.008	0.013	0.018	0.025	0.032	0.040	0.050
		NC (Noise Criteria)	-	-	-	-	-	-	16	20
		Throw	1   3   11	2   5   15	6   10   21	8   14   25	10   17   27	12   18   29	14   20   30	16   22   32

**LAB: 2 Slot 1.5" width**

8" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	150	185	215	250	285	312	350	390
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.012	0.020	0.032	0.044	0.061	0.079	0.099	0.122
		Static Pressure	0.006	0.010	0.016	0.022	0.030	0.039	0.049	0.060
		NC (Noise Criteria)	-	-	-	15	15	19	23	27
		Throw	2   4   12	3   6   14	4   8   17	6   12   20	8   14   22	10   16   24	12   19   28	14   20   30
12" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	160	215	260	330	415	450	540	605
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.010	0.017	0.027	0.037	0.052	0.066	0.084	0.104
		Static Pressure	0.004	0.007	0.011	0.015	0.021	0.026	0.034	0.042
		NC (Noise Criteria)	-	-	-	-	15	15	20	24
		Throw	2   4   12	3   6   14	4   8   17	6   12   20	8   14   22	10   17   25	12   20   29	14   21   31



# Performance Data

## LAB: 2 Slot 2" width

8" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000																									
		Airflow, CFM	360	450	515	590	665	740	825	885																									
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062																									
		Total Pressure	0.017	0.029	0.044	0.063	0.086	0.110	0.138	0.170																									
		Static Pressure	0.011	0.019	0.028	0.041	0.055	0.070	0.088	0.108																									
		NC (Noise Criteria)	-	-	-	15	15	20	24	28																									
12" Ø INLET	4 Ft.	Throw	2	6	16	4	11	20	7	14	24	10	19	27	14	20	29	15	21	32	17	23	34	18	23	35									
		FPM	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800							
		Airflow, CFM	400	500	590	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880							
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.060	0.070	0.080	0.090	0.100	0.110	0.120	0.130	0.140	0.150	0.160	0.170	0.180	0.190	0.200	0.210	0.220	0.230	0.240							
		Total Pressure	0.017	0.030	0.047	0.066	0.090	0.116	0.145	0.174	0.203	0.232	0.261	0.290	0.319	0.348	0.377	0.406	0.435	0.464	0.493	0.522	0.551	0.580	0.609	0.638	0.667	0.696	0.725						
		Static Pressure	0.011	0.020	0.031	0.044	0.059	0.076	0.095	0.114	0.133	0.152	0.171	0.190	0.209	0.228	0.247	0.266	0.285	0.304	0.323	0.342	0.361	0.380	0.399	0.418	0.437	0.456	0.475	0.494					
10" Ø INLET	4 Ft.	NC (Noise Criteria)	-	-	-	-	-	-	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75						
		Throw	9	15	32	14	21	38	17	26	42	20	30	45	21	32	50	24	35	53	32	42	60	33	44	62	35	46	64	37	48				
		Airflow, CFM	525	700	875	1050	1225	1400	1575	1750	1925	2100	2275	2450	2625	2800	2975	3150	3325	3500	3675	3850	4025	4200	4375	4550	4725	4900	5075	5250	5425				
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.060	0.070	0.080	0.090	0.100	0.110	0.120	0.130	0.140	0.150	0.160	0.170	0.180	0.190	0.200	0.210	0.220	0.230	0.240	0.250	0.260					
		Total Pressure	0.041	0.083	0.118	0.165	0.217	0.274	0.380	0.457	0.534	0.611	0.688	0.765	0.842	0.919	0.996	1.073	1.150	1.227	1.304	1.381	1.458	1.535	1.612	1.689	1.766	1.843	1.920	1.997	2.074	2.151			
		Static Pressure	0.035	0.073	0.102	0.143	0.186	0.234	0.330	0.395	0.459	0.523	0.588	0.653	0.718	0.782	0.847	0.911	0.976	1.040	1.104	1.168	1.232	1.296	1.360	1.424	1.488	1.552	1.616	1.680	1.744	1.808			
12" Ø INLET	4 Ft.	NC (Noise Criteria)	-	-	-	-	-	-	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81				
		Throw	11	17	36	15	23	39	18	27	45	21	32	50	24	35	53	27	36	56	36	45	63	38	50	66	40	52	64	42	54	66			
		Airflow, CFM	570	760	950	1140	1330	1520	1710	1900	2080	2270	2460	2650	2840	3030	3220	3410	3600	3790	3980	4170	4360	4550	4740	4930	5120	5310	5500	5690	5880	6070	6260		
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.060	0.070	0.080	0.090	0.100	0.110	0.120	0.130	0.140	0.150	0.160	0.170	0.180	0.190	0.200	0.210	0.220	0.230	0.240	0.250	0.260	0.270	0.280			
		Total Pressure	0.039	0.066	0.106	0.153	0.221	0.290	0.370	0.440	0.518	0.586	0.654	0.722	0.790	0.858	0.926	0.994	1.062	1.130	1.208	1.276	1.344	1.412	1.480	1.548	1.616	1.684	1.752	1.820	1.888	1.956	2.024	2.092	
		Static Pressure	0.033	0.056	0.090	0.131	0.190	0.250	0.320	0.398	0.467	0.535	0.603	0.671	0.739	0.807	0.875	0.943	1.011	1.079	1.147	1.215	1.283	1.351	1.419	1.487	1.555	1.623	1.691	1.759	1.827	1.895	1.963	2.031	2.099
10" Ø INLET	4 Ft.	NC (Noise Criteria)	-	-	-	-	-	-	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81				
		Throw	9	15	32	14	21	38	17	26	42	20	30	45	21	32	50	24	35	53	32	42	60	33	44	62	35	46	64	37	48	66	39	50	68
		Airflow, CFM	525	700	875	1050	1225	1400	1575	1750	1925	2100	2275	2450	2625	2800	2975	3150	3325	3500	3675	3850	4025	4200	4375	4550	4725	4900	5075	5250	5425	5600	5775	5950	6125
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.060	0.070	0.080	0.090	0.100	0.110	0.120	0.130	0.140	0.150	0.160	0.170	0.180	0.190	0.200	0.210	0.220	0.230	0.240	0.250	0.260	0.270	0.280	0.290		
		Total Pressure	0.041	0.083	0.118	0.165	0.217	0.274	0.380	0.457	0.534	0.611	0.688	0.765	0.842	0.919	0.996	1.073	1.150	1.227	1.304	1.381	1.458	1.535	1.612	1.689	1.766	1.843	1.920	1.997	2.074	2.151	2.228	2.305	
		Static Pressure	0.035	0.073	0.102	0.143	0.186	0.234	0.330	0.395	0.459	0.523	0.588	0.653	0.718	0.782	0.847	0.911	0.976	1.040	1.104	1.168	1.232	1.296	1.360	1.424	1.488	1.552	1.616	1.680	1.744	1.808	1.872	1.936	2.000
12" Ø INLET	4 Ft.	NC (Noise Criteria)	-	-	-	-	-	-	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81				
		Throw	11	17	36	15	23	39	18	27	45	21	32	50	24	35	53	27	36	56	36	45	63	38	50	66	40	52	64	42	54	66			
		Airflow, CFM	570	760	950	1140	1330	1520	1710	1900	2080	2270	2460	2650	2840	3030	3220	3410	3600	3790	3980	4170	4360	4550	4740	4930	5120	5310	5500	5690	5880	6070	6260	6450	6640
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.060	0.070	0.080	0.090	0.100	0.110	0.120	0.130	0.140	0.150	0.160	0.170	0.180	0.190	0.200	0.210	0.220	0.230	0.240	0.250	0.260	0.270	0.280	0.290		
		Total Pressure	0.039	0.066	0.106	0.153	0.221	0.290	0.370	0.440	0.518	0.586	0.654	0.722	0.790	0.858	0.926	0.994	1.062	1.130	1.208	1.276	1.344	1.412	1.480	1.548	1.616	1.684	1.752	1.820	1.888	1.956	2.024	2.092	
		Static Pressure	0.033	0.056	0.090	0.131	0.190	0.250	0.320	0.398	0.467	0.535	0.603	0.671	0.739	0.807	0.875	0.943	1.011	1.079	1.147	1.215	1.283	1.351	1.419	1.487	1.555	1.623	1.691	1.759	1.827	1.895	1.963	2.031	2.099

## Throw Correction for Length

Active Length (feet)	2'	4' (published)	8'	10'	12'
Throw Correction	0.7	0	1.5	1.7	1.8

1) Published data based on active sections 4 feet long

2) Throw values are measured in feet for terminal velocities of 150/100/50 FPM

3) Throw data is based on supply air and room air both at isothermal conditions

4) Effective core areas listed in chart are defined as the measurement of space between blades actually being utilized by the air

5) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006