

Performance Data

LAB: 1 Slot 1" width

6" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	85	105	135	175	210	240	275	310
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.024	0.042	0.065	0.091	0.124	0.155	0.194	0.238
		Static Pressure	0.018	0.032	0.049	0.069	0.093	0.115	0.144	0.176
		NC (Noise Criteria)	-	-	15	18	22	27	29	32
		Throw	1 3 11	3 5 16	4 8 21	5 12 23	7 14 24	9 16 25	11 19 27	14 21 29
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	0.029	0.050	0.077	0.108	0.147	0.184	0.230	0.282
		Static Pressure	0.023	0.040	0.061	0.086	0.116	0.144	0.180	0.220
		NC (Noise Criteria)	-	15	15	20	24	29	32	35
		Throw	1 3 12	3 6 18	4 9 23	6 13 25	8 16 27	10 18 28	12 21 30	15 23 32
10" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	117	158	199	240	281	316	357	398
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.032	0.056	0.086	0.121	0.164	0.206	0.257	0.315
		Static Pressure	0.026	0.046	0.070	0.099	0.133	0.166	0.207	0.253
		NC (Noise Criteria)	-	15	15	22	26	32	35	39
		Throw	1 3.5 13	3 7 20	4 10 25	7 14 28	9 18 30	11 20 31	13 23 33	17 25 35
12" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	133	180	227	273	320	360	407	453
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.035	0.061	0.093	0.131	0.178	0.222	0.278	0.340
		Static Pressure	0.029	0.051	0.077	0.109	0.147	0.182	0.228	0.278
		NC (Noise Criteria)	-	15	15	22	27	33	36	40
		Throw	1 4 15	4 7 22	5 11 28	7 16 31	10 20 33	12 22 34	15 26 37	18 28 39

LAB: 1 Slot 1.5" width

6" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	154	195	237	275	306	338	364	399
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.038	0.064	0.101	0.144	0.193	0.252	0.314	0.389
		Static Pressure	0.032	0.054	0.085	0.122	0.162	0.212	0.264	0.327
		NC (Noise Criteria)	-	-	19	23	28	31	34	38
		Throw	3 9 21	7 15 23	10 19 27	15 21 29	18 22 31	20 24 33	21 25 35	21 27 37

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8" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	157	202	249	294	333	374	409	456
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.038	0.064	0.101	0.144	0.193	0.252	0.314	0.389
		Static Pressure	0.032	0.054	0.085	0.122	0.162	0.212	0.264	0.327
		NC (Noise Criteria)	-	15	20	25	29	32	36	40
		Throw	4 9 22	7 16 25	11 20 29	16 22 31	19 24 33	21 26 36	22 27 38	23 29 40
10" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	160	210	265	320	370	425	475	530
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.041	0.070	0.110	0.158	0.211	0.276	0.343	0.425
		Static Pressure	0.035	0.060	0.094	0.136	0.180	0.236	0.293	0.363
		NC (Noise Criteria)	-	15	21	26	31	34	38	42
		Throw	4 10 24	8 17 27	12 22 31	17 24 34	21 26 36	23 28 39	24 29 41	25 31 43
12" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	163	218	281	346	407	476	542	604
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.044	0.075	0.118	0.169	0.225	0.295	0.366	0.454
		Static Pressure	0.038	0.065	0.102	0.147	0.194	0.255	0.316	0.392
		NC (Noise Criteria)	-	15	22	27	32	35	40	44
		Throw	4 11 26	9 18 29	13 24 33	18 26 36	22 28 39	25 30 42	26 31 44	27 33 46

LAB: 1 Slot 2" width

6" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	200	265	325	385	450	515	580	640
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.041	0.072	0.111	0.157	0.213	0.274	0.344	0.422
		Static Pressure	0.035	0.062	0.095	0.135	0.182	0.234	0.294	0.360
		NC (Noise Criteria)	-	18	22	28	32	38	40	44
		Throw	3 7 18	4 11 20	6 14 23	9 17 26	14 20 30	16 21 33	19 25 35	20 26 36
8" Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	210	290	355	425	500	570	645	710
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.043	0.075	0.116	0.164	0.223	0.286	0.360	0.441
		Static Pressure	0.037	0.065	0.100	0.142	0.192	0.246	0.310	0.379
		NC (Noise Criteria)	-	18	23	30	34	39	43	46
		Throw	3 7 18	5 13 22	8 16 26	12 21 29	16 22 32	18 23 35	20 26 37	21 27 38
Ø INLET	4 Ft.	FPM	300	400	500	600	700	800	900	1000
		Airflow, CFM	230	310	385	460	540	615	695	770
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
		Total Pressure	0.046	0.080	0.123	0.175	0.237	0.305	0.383	0.469

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12"	Static Pressure	0.040			0.070			0.107			0.153			0.206			0.265			0.333			0.407		
	NC (Noise Criteria)	-			18			23			30			34			39			43			46		
	Throw	4	8	23	7	15	26	10	19	29	14	23	32	18	25	35	20	26	37	23	28	39	24	29	41

LAB: 1 Slot 2" width

6" Ø INLET	4 Ft.	FPM	300			400			500			600			700			800			900			1000		
		Airflow, CFM	200			265			325			385			450			515			580			640		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031			0.040			0.050			0.062		
		Total Pressure	0.041			0.072			0.111			0.157			0.213			0.274			0.344			0.422		
		Static Pressure	0.035			0.062			0.095			0.135			0.182			0.234			0.294			0.360		
		NC (Noise Criteria)	-			18			22			28			32			38			40			44		
		Throw	3	7	18	4	11	20	6	14	23	9	17	26	14	20	30	16	21	33	19	25	35	20	26	36
8" Ø INLET	4 Ft.	FPM	300			400			500			600			700			800			900			1000		
		Airflow, CFM	210			290			355			425			500			570			645			710		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031			0.040			0.050			0.062		
		Total Pressure	0.043			0.075			0.116			0.164			0.223			0.286			0.360			0.441		
		Static Pressure	0.037			0.065			0.100			0.142			0.192			0.246			0.310			0.379		
		NC (Noise Criteria)	-			18			23			30			34			39			43			46		
		Throw	3	7	18	5	13	22	8	16	26	12	21	29	16	22	32	18	23	35	20	26	37	21	27	38
12" Ø INLET	4 Ft.	FPM	300			400			500			600			700			800			900			1000		
		Airflow, CFM	230			310			385			460			540			615			695			770		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031			0.040			0.050			0.062		
		Total Pressure	0.046			0.080			0.123			0.175			0.237			0.305			0.383			0.469		
		Static Pressure	0.040			0.070			0.107			0.153			0.206			0.265			0.333			0.407		
		NC (Noise Criteria)	-			18			23			30			34			39			43			46		
		Throw	4	8	23	7	15	26	10	19	29	14	23	32	18	25	35	20	26	37	23	28	39	24	29	41

LAB: 1 Slot 2.5" width

10" Ø INLET	4 Ft.	Airflow, CFM	225			300			380			460			540			620			675			750		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031			0.040			0.050			0.062		
		Total Pressure	0.042			0.076			0.119			0.171			0.233			0.303			0.370			0.457		
		Static Pressure	0.036			0.066			0.103			0.149			0.202			0.263			0.320			0.395		
		NC (Noise Criteria)	-			20			27			33			38			42			44			48		
Throw	5	9	20	8	13	24	10	16	27	12	19	29	15	21	32	18	22	34	20	26	38	21	27	39		
12" Ø INLET	4 Ft.	Airflow, CFM	258			345			430			515			603			688			775			860		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031			0.040			0.050			0.062		
		Total Pressure	0.041			0.069			0.109			0.156			0.227			0.299			0.380			0.452		
		Static Pressure	0.035			0.059			0.093			0.134			0.196			0.259			0.330			0.390		
		NC (Noise Criteria)	-			18			24			31			35			40			43			46		
Throw	6	10	22	9	13	24	11	17	28	13	20	30	16	22	33	18	23	36	23	29	41	24	31	43		

Performance Data

LAB: 1 Slot 3" width

10" Ø INLET	4 Ft.	Airflow, CFM	263			350			438			525			613			700			788			875		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031			0.040			0.050			0.062		
		Total Pressure	0.041			0.083			0.118			0.165			0.217			0.274			0.380			0.457		
		Static Pressure	0.035			0.073			0.102			0.143			0.186			0.234			0.330			0.395		
		NC (Noise Criteria)	-			18			25			29			34			38			42			46		
		Throw	6	10	21	9	14	25	11	17	28	13	20	30	14	21	33	16	23	35	21	28	40	22	29	41
12" Ø INLET	4 Ft.	Airflow, CFM	285			380			475			570			665			760			855			950		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031			0.040			0.050			0.062		
		Total Pressure	0.039			0.066			0.106			0.153			0.221			0.290			0.370			0.440		
		Static Pressure	0.033			0.056			0.090			0.131			0.190			0.250			0.320			0.378		
		NC (Noise Criteria)	-			18			25			31			35			40			42			47		
		Throw	7	11	24	10	15	26	12	18	30	14	21	33	16	23	35	18	24	37	24	30	42	25	33	44

Performance Notes:

- 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

Throw Correction for Length

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