



Hospital/Clean Room Diffusers
Performance Data • Model LF

8" dia. Inlet

	Airflow, CFM	100	120	140	160	180	200	220	240	260	280	300
48" x 12" Module	Total Pressure	.030	.043	.058	.076	.096	.119	.144	.172	.201	.233	.268
	NC	—	17	19	22	25	27	29	31	34	35	37
	Throw	.5-1-2	.5-1-3	1-1.5-4	1.5-2-4	1.5-2.5-5	2-3.5-5	2.5-4-6	3-4.5-7	3-4.5-7.5	4-5.5-8	4.5-6-9
60" x 12" Module	Total Pressure	.028	.040	.055	.072	.091	.112	.136	.161	.189	.220	.252
	NC	—	16	18	21	24	25	28	30	33	34	36
	Throw	.5-1-2	1-1-3	1-1.5-4	1-2-4	1-2.5-4.5	2-3.5-5	2-4-5.5	3-4-6.5	3-5-7	4-5-8	4-6-8.5
72" x 12" Module	Total Pressure	.026	.037	.050	.066	.083	.103	.125	.148	.174	.202	.232
	NC	—	16	18	21	23	26	27	30	32	33	35
	Throw	.5-1-2	1-1-3	1-1.5-4	1-2-4	1-2.5-4.5	2-3.5-5	2-4-5.5	3-4-6.5	3-4.5-7	4-5-8	4-6-8.5

	Airflow, CFM	100	120	140	160	180	200	220	240	260	280	300
24" x 24" Module	Total Pressure	.030	.043	.058	.076	.096	.119	.144	.172	.201	.233	.268
	NC	—	17	19	22	25	27	29	31	34	35	37
	Throw	.5-1-2	.5-1-3	1-1.5-4	1.5-2-4	1.5-2.5-5	2-3.5-6	2.5-4-6	3-4.5-7	3-4.5-7.5	4-5.5-8	4.5-6-9
36" x 24" Module	Total Pressure	.026	.037	.050	.066	.083	.103	.125	.148	.174	.202	.232
	NC	—	15	18	21	24	26	28	30	33	34	36
	Throw	0-1-1.5	0-1-2	0-1-3	1-2-3.5	1-2-4.5	2-3-5	2-3-5.5	2-3.5-6	2.5-4.5-7	3-5-8	3-5-8
48" x 24" Module	Total Pressure	.023	.034	.046	.060	.075	.093	.113	.134	.158	.183	.210
	NC	—	—	17	20	23	25	27	30	32	33	35
	Throw	0-.5-1.5	.5-1-2	.5-1-2.5	1-1.5-3	1-2-4	1-2-5	1.5-2.5-5	2-3-6	2-4-6.5	2-4.5-7	3-5-7

10" dia. Inlet

	Airflow, CFM	160	180	200	220	240	260	280	300	320	340	360
48" x 24" Module	Total Pressure	.022	.028	.035	.042	.050	.059	.069	.079	.090	.113	.140
	NC	—	15	18	19	22	25	27	29	31	33	35
	Throw	1-1-3	1-2-4	1-2-5	1.5-2.5-5	2-3-6	2-4-6.5	2-4.5-7	3-5-7	3-5-8	4-6-8.5	5-7-9
60" x 24" Module	Total Pressure	.021	.027	.033	.040	.048	.056	.065	.074	.084	.107	.132
	NC	—	—	17	19	22	24	27	29	31	33	35
	Throw	1-1-3	1-2-4	1-2-5	1.5-2.5-5	2-3-6	2-4-6.5	2-4.5-7	3-5-7	3-5-8	4-6-8.5	5-7-9
72" x 24" Module	Total Pressure	.021	.027	.033	.036	.043	.050	.058	.066	.076	.096	.118
	NC	—	—	17	19	22	24	27	29	31	32	34
	Throw	1-1-3	1-1-4	1-2-4.5	1-2-5	1.5-2.5-6	2-3-6	2-4-7	2.5-4-7	3-4.5-7.5	3.5-5-8	4.5-6-9

12" dia. Inlet

	Airflow, CFM	230	260	290	315	345	375	400	430	460	490	520
48" x 24" Module	Total Pressure	.036	.046	.057	.068	.081	.096	.109	.126	.144	.163	.184
	NC	15	18	21	22	25	28	30	32	35	38	42
	Throw	1-2-6	1.5-3-6.5	2-4-7	3-5-8	4-5.5-8	4.5-6-8.5	5-7-9.5	5.5-7.5-10	6-8-11	6.5-8.5-11.5	7-9-12
60" x 24" Module	Total Pressure	.031	.040	.049	.058	.070	.083	.094	.108	.124	.141	.159
	NC	15	18	21	22	25	28	30	32	35	38	42
	Throw	1-2-6	2-3-6	2-4-7	3-5-8	4-5.5-7.5	4.5-6-8.5	5-6.5-9	5.5-7.5-9.5	6-8-10.5	6-8.5-11	6.5-8.5-11.5
72" x 24" Module	Total Pressure	.028	.036	.045	.053	.063	.075	.085	.099	.113	.128	.144
	NC	14	17	20	21	24	27	29	31	34	37	41
	Throw	1-2-5	1.5-2.5-6	2-4-6.5	3-4.5-7	4-5-7	4-5.5-8	5-6-8.5	5-7-9	5.5-7.5-10	6-8-10.5	6-8-11

- CFM - cubic feet per minute
FFM - feet per minute velocity
TP - total pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts. Damper fully open.

- Performance Notes:
1. Throws are the average vertical distance in feet to terminal velocities of 100, 75 and 50 fpm. Based upon a cooling ΔT of 10°F. 9 ft. ceiling.

2. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.