

5100HF

Laminar Flow Diffuser | Enhanced | HEPA Filter



PERFORMANCE DATA | 13% FREE AREA

8" INLET	AIRFLOW (CFM)	100	120	140	160	180	200	220	240	260	280	290
48" x 12" Module *	Total Pressure	0.17	0.24	0.33	0.43	0.55	0.68	0.82	0.98	1.14	1.33	1.42
	NC	-	17	19	22	25	27	29	31	34	35	37
60" x 12" Module	Total Pressure	0.11	0.16	0.22	0.28	0.36	0.44	0.54	0.64	0.75	0.87	0.93
	NC	-	16	18	21	24	25	28	30	33	34	36

8" INLET	AIRFLOW (CFM)	100	120	140	160	180	200	220	240	260	280	295
24" x 24" Module *	Total Pressure	0.17	0.24	0.32	0.42	0.54	0.66	0.8	0.95	1.12	1.3	1.44
	NC	0	17	19	22	25	27	29	31	34	35	37
36" x 24" Module	Total Pressure	0.07	0.1	0.14	0.18	0.23	0.29	0.35	0.41	0.48	0.56	0.62
	NC	0	15	18	21	24	26	28	30	33	34	36
48" x 24" Module	Total Pressure	0.05	0.07	0.09	0.12	0.15	0.18	0.22	0.27	0.31	0.36	0.4
	NC	-	-	17	20	23	25	27	30	32	33	35

10" INLET	AIRFLOW (CFM)	160	180	200	220	240	260	280	300	320	340	360
36" x 24" Module	Total Pressure	0.014	0.18	0.22	0.27	0.32	0.37	0.43	0.5	0.56	0.64	0.71
	NC	15	18	20	21	23	26	28	30	32	34	36
48" x 24" Module	Total Pressure	0.08	0.1	0.13	0.15	0.18	0.21	0.25	0.28	0.32	0.37	0.41
	NC	-	15	18	19	22	25	27	29	31	33	35
60" x 24" Module	Total Pressure	0.06	0.07	0.09	0.11	0.13	0.15	0.17	0.2	0.22	0.25	0.28
	NC	-	-	17	19	22	24	27	29	31	33	35

12" INLET	AIRFLOW (CFM)	230	260	290	315	345	375	400	430	460	490	520
48" x 24" Module	Total Pressure	0.16	0.2	0.25	0.29	0.35	0.42	0.48	0.55	0.63	0.71	0.8
	NC	15	18	21	22	25	28	30	32	35	38	42
60" x 24" Module	Total Pressure	0.1	0.13	0.16	0.19	0.23	0.27	0.31	0.36	0.41	0.47	0.53
	NC	15	18	21	22	25	28	30	32	35	38	42

NOTES: Data was derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991. Data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa). Noise Criteria (NC) is based on 10 dB room absorption, re 10⁻¹² Watts, damper fully open. Blank (-) indicates a NC of less than 15.

SPECIALTY PRODUCTS | CRITICAL ENVIRONMENT

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PERFORMANCE DATA | 23% FREE AREA

8" INLET	AIRFLOW (CFM)	200	240	280*	320	360	400
24" x 24" Module	Total Pressure	0.64	0.92	1.26	1.64	2.08	2.56
	NC	-	16	22	24	28	32

10" INLET	AIRFLOW (CFM)	200	240	280*	320	360	400
24" x 24" Module	Total Pressure	0.6	0.87	1.18	1.54	1.95	2.4
	NC	-	-	-	-	20	24
	AIRFLOW (CFM)	300	360	420	480*	540	600
24" x 36" Module	Total Pressure	0.49	0.71	0.96	1.26	1.59	1.97
	NC	-	19	25	27	31	35
	AIRFLOW (CFM)	400	480	560	640	720*	800
24" x 48" Module	Total Pressure	0.47	0.68	0.92	1.21	1.53	1.88
	NC	20	26	32	34	38	42

12" INLET	AIRFLOW (CFM)	200	240	280*	320	360	400
24" x 24" Module	Total Pressure	0.59	0.85	1.16	1.51	1.92	2.37
	NC	-	-	-	-	-	17
	AIRFLOW (CFM)	300	360	420	480*	540	600
24" x 36" Module	Total Pressure	0.46	0.67	0.91	1.19	1.5	1.86
	NC	-	-	19	21	25	29
	AIRFLOW (CFM)	400	480	560	640	720*	800
24" x 48" Module	Total Pressure	0.43	0.62	0.84	1.1	1.39	1.71
	NC	15	20	26	28	32	36
	AIRFLOW (CFM)	500	600	700	800	900*	1000
24" x 60" Module	Total Pressure	0.42	0.6	0.82	1.07	1.35	1.67
	NC	20	25	31	33	37	40

14" INLET	AIRFLOW (CFM)	300	360	420	480*	540	600
24" x 36" Module	Total Pressure	0.45	0.65	0.88	1.15	1.46	1.8
	NC	-	-	-	15	19	23
	AIRFLOW (CFM)	400	480	560	640	720*	800
24" x 48" Module	Total Pressure	0.41	0.59	0.81	1.05	1.33	1.64
	NC	-	-	20	22	26	30
	AIRFLOW (CFM)	500	600	700	800	900*	1000
24" x 60" Module	Total Pressure	0.39	0.57	0.77	1.01	1.28	1.57
	NC	-	-	25	27	31	35

16" INLET	AIRFLOW (CFM)	500	600	700	800	900*	1000
24" x 60" Module	Total Pressure	0.38	0.54	0.74	0.97	1.22	1.51
	NC	-	-	19	21	25	29

NOTES: Data was derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006. Data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa). Noise Criteria (NC) is based on 10 dB room absorption, re 10⁻¹² Watts, damper fully open. Blank (-) indicates a NC of less than 15.

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