

Hospital/Clean Room Diffusers

Performance Data - Model LFDP-MC

24" x 24" Module

Total CFM	Face Velocity/ cfm/sq. ft.	8" Inlet			10" Inlet			12" Inlet			Average Velocity						
											Distance Below Diffuser Face (ft)						
		Pt	Ps	NC	Pt	Ps	NC	Pt	Ps	NC	1	2	3	4	5	6	7
200	50	.08	.06	16	.04	.03	-	.03	.03	-	81	70	62	59	54	48	45
240	60	.11	.09	21	.06	.04	-	.05	.04	-	93	80	70	64	57	51	48
280	70	.16	.12	27	.08	.06	19	.06	.06	-	105	90	77	70	61	54	50
320	80	.20	.15	29	.10	.08	21	.08	.07	-	116	96	83	75	64	56	53
360	90	.26	.20	33	.13	.10	25	.11	.09	18	128	101	89	80	68	59	55
400	100	.32	.24	37	.16	.13	29	.13	.11	22	145	109	95	86	71	60	56

24" x 36" Module

Total CFM	Face Velocity/ cfm/sq. ft.	10" Inlet			12" Inlet			14" Inlet			Average Velocity						
											Distance Below Diffuser Face (ft)						
		Pt	Ps	NC	Pt	Ps	NC	Pt	Ps	NC	1	2	3	4	5	6	7
300	50	.06	.04	19	.03	.03	-	.02	.02	-	86	74	66	63	57	52	48
360	60	.09	.06	24	.05	.04	18	.03	.02	-	100	86	74	69	61	55	51
420	70	.12	.08	30	.07	.05	24	.04	.03	18	112	96	82	74	65	57	54
480	80	.16	.11	32	.09	.06	26	.05	.04	20	124	102	88	80	69	60	56
540	90	.20	.14	36	.11	.08	30	.06	.05	24	136	108	95	86	72	63	59
600	100	.25	.17	40	.14	.10	34	.08	.06	28	155	117	102	92	76	64	60

24" x 48" Module

Total CFM	Face Velocity/ cfm/sq. ft.	10" Inlet			12" Inlet			14" Inlet			Average Velocity						
											Distance Below Diffuser Face (ft)						
		Pt	Ps	NC	Pt	Ps	NC	Pt	Ps	NC	1	2	3	4	5	6	7
400	50	.09	.06	26	.05	.03	20	.03	.02	-	92	79	70	67	61	55	51
480	60	.13	.09	31	.07	.05	25	.05	.03	19	106	91	79	73	65	58	54
560	70	.18	.12	37	.10	.07	31	.06	.05	25	119	102	87	79	69	61	57
640	80	.24	.15	39	.13	.09	33	.08	.06	27	132	109	94	85	73	64	60
720	90	.30	.20	43	.16	.11	37	.11	.08	31	145	115	101	91	77	67	63
800	100	.37	.24	47	.20	.14	41	.13	.10	35	165	124	108	98	81	68	64

24" x 60" Module

Total CFM	Face Velocity/ cfm/sq. ft.	12" Inlet			14" Inlet			16" Inlet			Average Velocity						
											Distance Below Diffuser Face (ft)						
		Pt	Ps	NC	Pt	Ps	NC	Pt	Ps	NC	1	2	3	4	5	6	7
500	50	.07	.04	25	.04	.03	19	.03	.02	-	97	83	74	70	64	58	54
600	60	.09	.06	30	.06	.04	24	.04	.02	18	111	96	83	77	68	61	57
700	70	.13	.08	36	.08	.05	30	.05	.03	24	125	107	91	83	72	64	60
800	80	.17	.10	38	.10	.07	32	.06	.04	26	139	114	99	89	77	67	63
900	90	.21	.13	42	.13	.09	36	.08	.06	30	152	121	106	96	81	70	66
1000	100	.26	.16	45	.16	.11	40	.10	.07	34	173	130	113	103	85	71	67

Performance Notes:

1. CFM = Airflow in cubic feet per minute.
2. Pt = Total pressure, inches w.g.
3. Ps = Static pressure, inches w.g.
4. NC (Noise Criteria) values are based upon 10dB room absorption, re 10⁻¹² watts. Blank (-) indicates NC of below 15.
5. Face velocities and average velocities are in feet per minute.
6. Average velocities are measured below the face of the diffuser with a cooling ΔT of 5°F.
7. Average velocity is based on one diffuser handling the specified air volume.
8. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.