



MODEL RCDH-200

ROUND CEILING DIFFUSER

PERFORMANCE DATA

Neck Size	Area Factor (Ak) ft ²	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1100	1200	
12"	CFM		236	314	393	472	550	629	707	786	864	943	
	0.503 (Horizontal Throw)	SP (in., wg)	0.037	0.045	0.052	0.057	0.062	0.08	0.102	0.116	0.140	0.167	
		NC	<15	<15	<15	16	21	25	30	33	36	39	
		Throw (Ft.) @ 50, 100, 150 Fpm	2,4,9	3,5,10	3,5,11	4,6,12	5,7,13	6,8,14	8,10,16	9,12,18	10,13,19	11,15,21	
	0.392 (Vertical Throw)	SP (in., wg)	0.013	0.024	0.046	0.054	0.073	0.10	0.121	0.150	0.181	0.215	
		NC	<15	<15	<15	17	22	26	32	35	38	41	
		Throw (Ft.) @ 50, 100, 150 Fpm	2,4,8	2,6,10	4,8,12	5,10,16	7,13,20	9,17,24	11,20,28	12,22,32	13,24,36	14,26,40	
	16"	CFM		418	558	700	838	978	1118	1258	1400	1538	1678
		0.673 (Horizontal Throw)	SP (in., wg)	0.014	0.024	0.038	0.055	0.075	0.098	0.124	0.153	0.185	0.220
NC			<15	<15	<15	16	23	29	33	37	40	43	
Throw (Ft.) @ 50, 100, 150 Fpm			2,5,11	4,7,15	5,8,18	7,10,20	8,11,22	9,12,23	10,13,25	10,14,26	11,15,27	12,17,28	
0.693 (Vertical Throw)		SP (in., wg)	0.014	0.024	0.038	0.055	0.075	0.098	0.124	0.153	0.185	0.220	
		NC	<15	<15	<15	16	23	29	33	37	40	43	
		Throw (Ft.) @ 50, 100, 150 Fpm	3,6,15	6,12,20	9,16,25	12,20,29	14,23,33	16,26,37	18,29,40	19,31,42	20,33,44	21,35,46	

Notes:

1. Performance Data is Based on ASHRAE 70-06
2. CFM: Standard air density and isothermal conditions.
3. Static Pressure (SP): Inches of water gauge.
4. AK: Free area in ft²
5. Face Velocity: Face discharge velocity in feet per minute (fpm).
6. Neck Velocity: Neck discharge velocity in feet per minute (fpm).
7. Noise Criteria: NC Level is based on Room Attenuation of 10 db (Sound Power Level Re: 10-12 watts) with one diffuser operating.
8. Terminal Velocity: Maximum velocity [Vt] in feet per minute at the specified distance from the outlet face at isothermal conditions.
9. Throw: Projection distance in feet from the diffuser discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt] at 150, 100, 50Fpm.

Tested for ASHRAE 70.