



# MODEL RCD-200

## ROUND CEILING DIFFUSER

### PERFORMANCE DATA

Neck Size	Area Factor (Ak) ft <sup>2</sup>	Neck Velocity (fpm)	350	450	550	650	750	850	950	1050	1150	1250
6"	0.115	CFM	69	88	108	128	147	167	187	206	226	245
		SP (in., wg)	0.021	0.033	0.048	0.066	0.087	0.11	0.136	0.165	0.196	0.229
		NC	<15	<15	<15	19	23	27	30	33	36	38
		Throw (Ft.) @ 50, 100, 150 Fpm	10,5,2	11,5,2	11,5,2	11,6,3	12,6,3	13,7,4	13,7,4	14,8,5	15,8,5	16,9,6
8"	0.187	CFM	122	157	192	227	262	297	332	367	401	436
		SP (in., wg)	0.023	0.037	0.053	0.073	0.096	0.122	0.15	0.181	0.215	0.252
		NC	<15	<15	17	22	26	30	34	37	40	42
		Throw (Ft.) @ 50, 100, 150 Fpm	9,3,<2	10,4,2	10,5,2	11,5,3	12,6,3	13,7,4	15,8,5	16,9,6	17,10,7	18,11,8
10"	0.262	CFM	191	245	300	355	409	464	518	573	627	682
		SP (in., wg)	0.025	0.04	0.058	0.079	0.104	0.132	0.163	0.197	0.235	0.275
		NC	<15	<15	20	25	30	34	37	41	44	46
		Throw (Ft.) @ 50, 100, 150 Fpm	8,3,<2	9,4,2	11,4,2	12,6,3	13,7,4	15,8,5	16,10,7	18,11,8	20,13,10	22,15,12
12"	0.381	CFM	275	353	432	511	589	668	746	825	903	982
		SP (in., wg)	0.025	0.041	0.06	0.083	0.109	0.139	0.172	0.209	0.249	0.292
		NC	<15	17	23	29	33	38	41	44	47	>50
		Throw (Ft.) @ 50, 100, 150 Fpm	9,3,2	10,4,2	12,5,3	13,7,4	15,8,6	17,10,7	19,12,9	21,14,11	24,16,14	27,18,16
14"	0.515	CFM	374	481	588	695	802	909	1016	1122	1229	1336
		SP (in., wg)	0.024	0.039	0.058	0.081	0.108	0.138	0.173	0.21	0.252	0.297
		NC	<15	19	26	31	36	41	44	48	>50	>50
		Throw (Ft.) @ 50, 100, 150 Fpm	12,6,4	13,7,4	14,9,5	16,10,6	18,12,8	20,13,10	23,15,12	26,17,15	30,20,18	33,22,22

**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 ft<sup>2</sup>
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.