

# RID

## ROUND INDUSTRIAL DIFFUSER

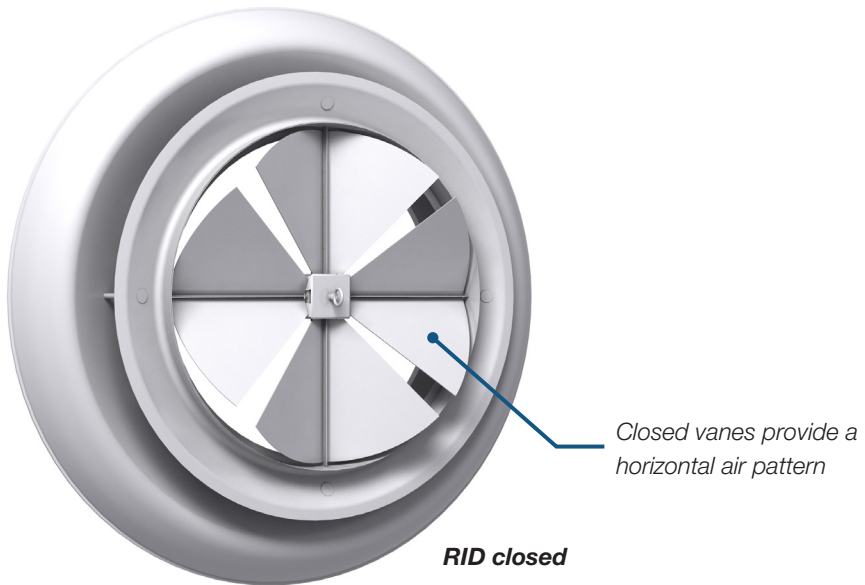
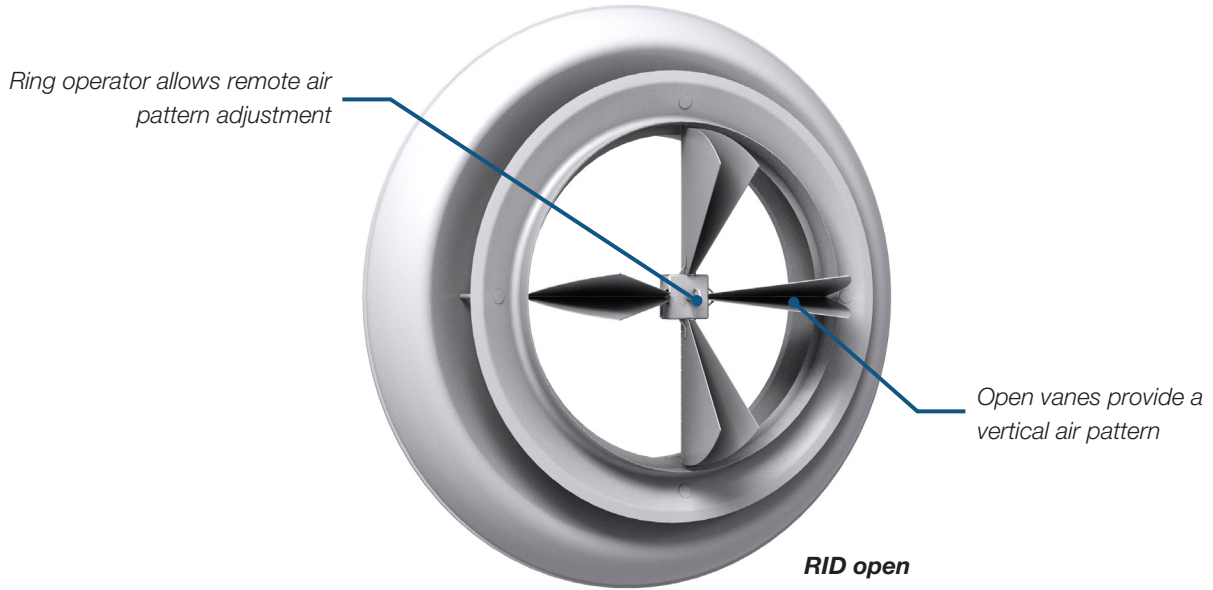


# RID

## Round Industrial Diffuser

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The Round Industrial Diffuser (RID) is a high-capacity ceiling diffuser that features heavy-gauge, spun steel construction and fully adjustable airflow making it ideal for industrial applications with high ceilings.



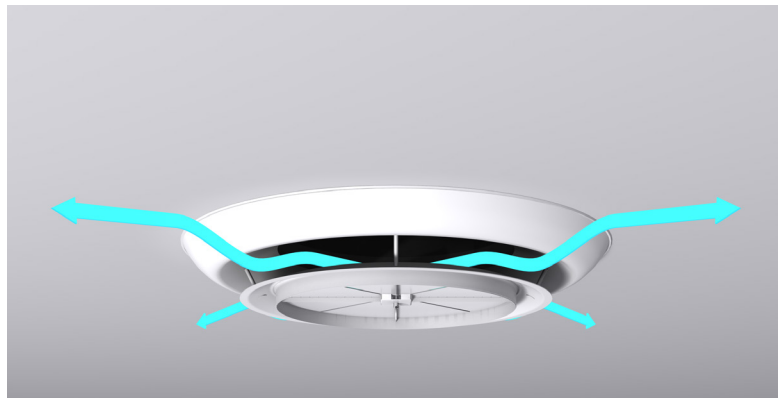
## ADJUSTABLE FOR HORIZONTAL AND VERTICAL AIR PATTERN

- + Designed for high ceiling installations, the RID features adjustable radial vanes with a ring operator to allow remote adjustment of the vanes with a pole operator.
- + Suitable for both heating and cooling applications, the RID can be adjusted between a full vertical or horizontal air pattern.
- + At the full vertical setting the RID provides a long downward projection for effective heating and cooling from high mounting locations.

*Vertical airflow*



*Horizontal airflow*



## TYPICAL APPLICATIONS

Heavy duty construction and the ability to change between a horizontal and vertical air pattern make the RID well suited for use in factories, warehouses, convention halls, shopping malls and other applications with high ceilings and variable conditions.

### CONSTRUCTION

- + Size
  - 10 in.
  - 12 in.
  - 14 in.
  - 16 in.
  - 18 in.
  - 20 in.
  - 24 in.
  - 30 in.
  - 36 in.
- + Options
  - Complete range of available accessory dampers, equalizing grids etc.



# PERFORMANCE DATA

Size	Neck Velocity (fpm)		400	500	600	700	800	900	1000	1200	1400	1600
	Velocity Pressure (in. w.g.)		.010	.016	.023	.031	.040	.051	.063	.090	.122	.160
10	Total Pressure (in. w.g.)	V	.013	.021	.030	.040	.053	.067	.082	.118	.160	.210
		H	.023	.036	.052	.070	.091	.115	.143	.205	.280	.358
	Flow Rate (cfm)		220	270	330	380	435	490	545	655	765	870
	Radius of Diffusion (ft.)	H	4	5	6	7	8	10	10	12	14	15
	Throw (ft.)	V	4-14	5-17	6-19	7-23	9-28	10-31	11-36	16-52	19-63	22-72
	Sound (NC)		15	19	23	27	33	37	40	43	47	53
12	Total Pressure (in. w.g.)	V	.012	.019	.028	.037	.049	.062	.076	.110	.148	.195
		H	.020	.032	.046	.062	.080	.102	.125	.180	.245	.318
	Flow Rate (cfm)		315	390	470	550	630	705	785	940	1100	1255
	Radius of Diffusion (ft.)	H	5	5	7	8	9	11	12	13	16	18
	Throw (ft.)	V	4-15	5-17	6-22	8-25	9-31	10-34	11-37	17-55	21-69	25-81
	Sound (NC)		15	19	23	27	33	37	39	45	51	54
14	Total Pressure (in. w.g.)	V	.012	.019	.027	.036	.047	.060	.074	.106	.144	.188
		H	.020	.032	.046	.062	.080	.102	.125	.180	.245	.318
	Flow Rate (cfm)		425	530	635	745	850	955	1060	1270	1490	1695
	Radius of Diffusion (ft.)	H	6	6	8	10	11	12	13	16	17	20
	Throw (ft.)	V	5-17	6-18	7-23	8-26	10-32	11-36	12-38	18-60	22-72	27-87
	Sound (NC)		15	19	22	28	34	39	42	47	52	56
16	Total Pressure (in. w.g.)	V	.012	.018	.026	.035	.046	.058	.072	.103	.140	.183
		H	.020	.032	.046	.062	.080	.102	.125	.180	.245	.318
	Flow Rate (cfm)		560	700	840	980	1120	1260	1400	1680	1960	2240
	Radius of Diffusion (ft.)	H	6	7	9	10	12	14	14	17	20	22
	Throw (ft.)	V	5-17	6-19	7-23	9-29	10-33	11-36	12-41	18-62	23-75	28-94
	Sound (NC)		16	19	23	28	32	38	42	47	51	55
18	Total Pressure (in. w.g.)	V	.011	.018	.025	.034	.045	.056	.070	.099	.135	.177
		H	.020	.032	.046	.062	.080	.102	.125	.180	.245	.318
	Flow Rate (cfm)		710	885	1060	1240	1420	1590	1770	2120	2480	2830
	Radius of Diffusion (ft.)	H	6	8	10	12	13	15	16	19	22	24
	Throw (ft.)	V	5-17	7-21	8-25	9-29	10-33	11-37	13-42	20-65	24-77	28-93
	Sound (NC)		16	19	25	32	35	38	42	47	52	56
20	Total Pressure (in. w.g.)	V	.011	.017	.024	.033	.043	.054	.067	.096	.130	.170
		H	.019	.030	.043	.058	.076	.096	.120	.170	.235	.305
	Flow Rate (cfm)		875	1100	1310	1530	1750	1970	2190	2610	3060	3500
	Radius of Diffusion (ft.)	H	7	9	11	13	14	16	17	21	24	27
	Throw (ft.)	V	6-17	7-22	8-25	9-30	11-34	12-38	13-43	20-67	25-80	30-98
	Sound (NC)		16	19	26	33	36	39	43	48	52	56
24	Total Pressure (in. w.g.)	V	.011	.017	.023	.031	.042	.053	.065	.094	.128	.167
		H	.019	.030	.043	.058	.076	.096	.120	.170	.235	.305
	Flow Rate (cfm)		1260	1570	1880	2200	2510	2820	3140	3770	4400	5020
	Radius of Diffusion (ft.)	H	8	10	13	15	16	19	21	24	28	31
	Throw (ft.)	V	6-18	7-23	8-27	10-31	11-36	12-39	14-46	22-70	26-83	32-105
	Sound (NC)		19	23	27	33	36	39	43	48	54	59
30	Total Pressure (in. w.g.)	V	.010	.016	.023	.031	.041	.052	.064	.092	.125	.162
		H	.020	.031	.045	.060	.078	.100	.123	.176	.240	.313
	Flow Rate (cfm)		1960	2450	2940	3430	3920	4410	4900	5880	6860	7840
	Radius of Diffusion (ft.)	H	10	12	15	18	20	23	24	29	34	38
	Throw (ft.)	V	6-19	7-23	9-27	10-32	11-36	13-42	14-47	22-72	27-85	33-110
	Sound (NC)		15	21	26	29	33	36	38	43	47	50
36	Total Pressure	V	.010	.016	.023	.031	.041	.052	.064	.092	.125	.162
		H	.015	.024	.036	.047	.062	.079	.098	.139	.189	.247
	Flow Rate, cfm		2820	3520	4230	4930	5630	6340	7040	8450	9850	11260
	Radius of Diffusion, ft	H	11	14	17	20	23	26	29	34	39	46
	Projection, ft	V	6-19	7-24	9-29	10-33	11-37	13-43	15-61	24-78	27-98	35-115
		NC	23	29	33	37	41	44	46	51	55	58

**Performance Notes:**

1. Tested in accordance with ASHRAE Standard 70 – 2006 Method of Testing for Rating the Performance of Air Outlets and Inlets.
2. Airflow is in cubic feet per minute.
3. All pressures are in in. w.g.
4. Vertical Projections are to terminal velocities of 50 fpm. Minimum projections are with a 40 °F heating temperature differential and maximum projections are with a 20 °F cooling temperature differential.
5. Horizontal throws are to a terminal velocity of 50 fpm with a 20 °F cooling temperature differential.
6. NC values are based on a room absorption of 10 dB re 10<sup>-12</sup> watts and one diffuser.
7. NC Values based on a horizontal pattern (center closed). For vertical pattern (center open) use the following correction.
 

Size	Correction
10 - 24	subtract 3 NC
30,36	no correction
8. Blanks "-" indicate an NC level below 15.



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