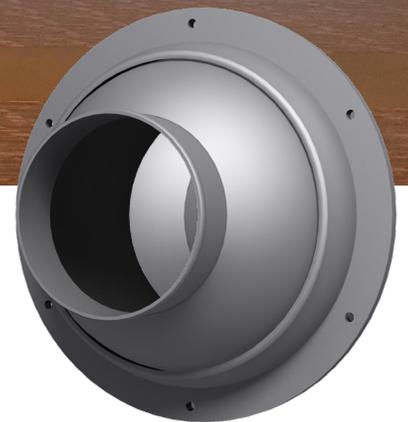


# ND

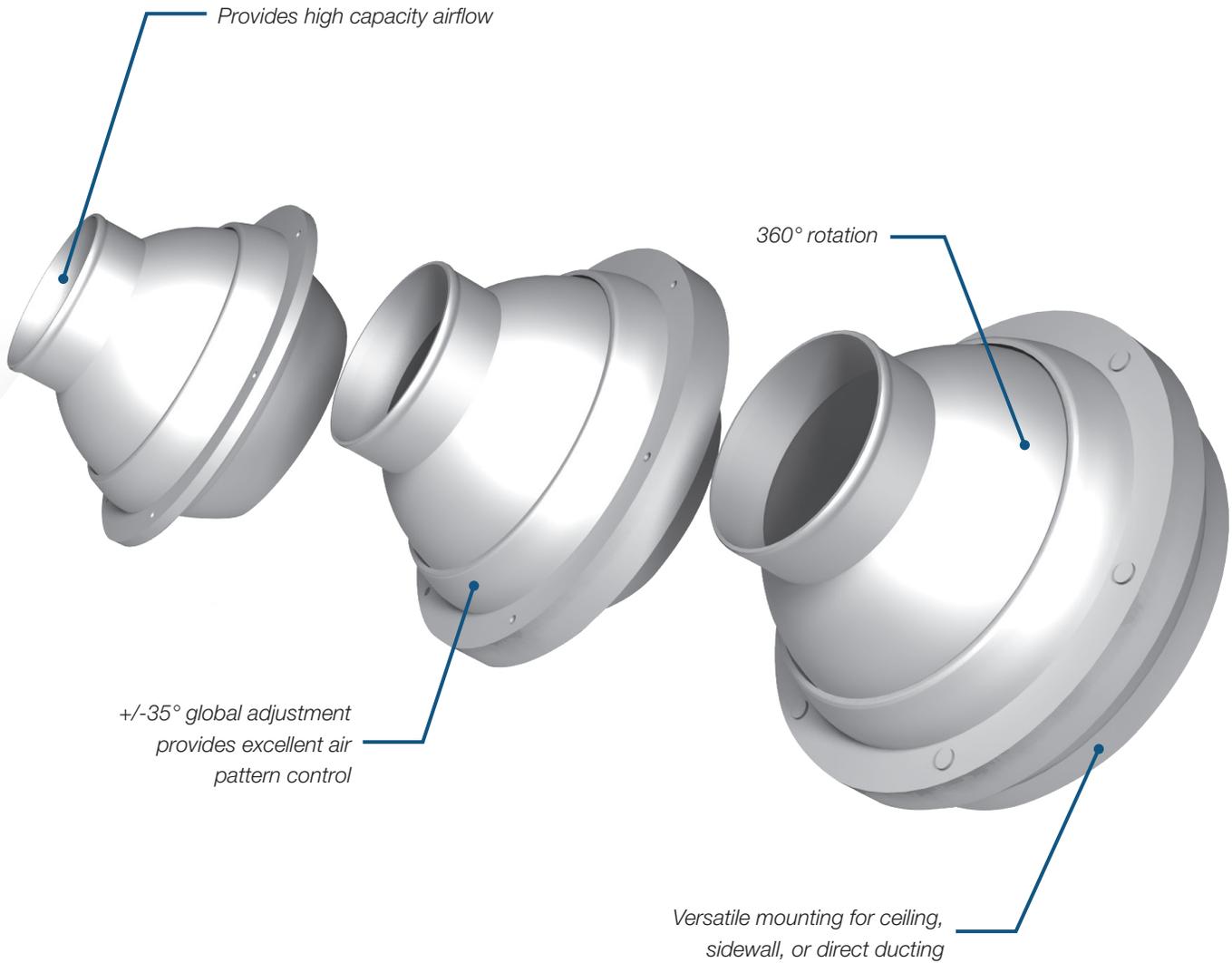
## NOZZLE DIFFUSER



# ND

## Nozzle Diffuser

Available in a variety of sizes and with multiple mounting options, the Nozzle Diffuser (ND) is well suited to industrial and commercial applications that require long throws and accurate directional control for full mixing or spot cooling and heating.



## SUPERIOR ADJUSTABILITY

- + Nozzle diffusers can be globally adjusted +/- 35° and rotated 360°, providing excellent air pattern control.

## HIGHLY VERSATILE

- + ND diffusers are ideal for new or retrofit construction as they can be used in supply or exhaust applications in ceilings, sidewalls, or directly ducted.
- + The high velocity airflow, adjustability and long distance projection minimize ductwork and provide ventilation in hard to reach areas.
- + The ND is available with an optional surface mount round reducer for installation flexibility, or for direct mounting on the end of a duct run.

## TYPICAL APPLICATIONS

The architectural styling of the ND provides a modern alternative to traditional diffusers while providing superior performance characteristics. Ideal applications include: convention centers, meeting halls, airports, shopping malls, and auditoriums.

## CONSTRUCTION

- + Mounting
  - Wall
  - Ceiling
  - Exposed duct
- + Size
  - 6 in. to 20 in. diameter
- + Options
  - Aperture style damper



# PERFORMANCE DATA

Size	Nozzle Velocity (fpm)	1000	1500	2000	2500	3000	3500	4000
3	Flow Rate (cfm)	14	22	29	36	43	50	58
	Static Pressure (in. w.g.)	0.03	0.07	0.13	0.20	0.28	0.39	0.50
	Sound (NC)	<15	<15	<15	19	23	26	30
	Throw (ft.)	2-4-8	3-6-13	4-8-15	5-11-16	6-12-17	7-13-20	8-14-21
4	Flow Rate (cfm)	22	33	44	55	66	77	88
	Static Pressure (in. w.g.)	0.03	0.07	0.13	0.20	0.28	0.39	0.50
	Sound (NC)	<15	<15	<15	19	23	26	30
	Throw (ft.)	3-6-12	4-8-17	6-12-23	8-16-24	9-18-27	10-21-30	12-22-32
6	Flow Rate (cfm)	49	74	98	123	147	172	196
	Static Pressure (in. w.g.)	0.05	0.12	0.22	0.34	0.49	0.66	0.86
	Sound (NC)	<15	<15	15	21	25	29	33
	Throw (ft.)	4-8-16	6-12-23	8-16-27	10-20-30	12-21-32	14-25-36	16-26-38
8	Flow Rate (cfm)	104	157	209	261	313	365	418
	Static Pressure (in. w.g.)	0.06	0.14	0.24	0.38	0.53	0.70	0.92
	Sound (NC)	<15	<15	17	24	30	35	38
	Throw (ft.)	6-11-23	8-17-34	11-23-39	14-28-44	17-31-46	20-35-52	23-38-55
10	Flow Rate (cfm)	180	270	361	451	541	631	721
	Static Pressure (in. w.g.)	0.07	0.15	0.25	0.39	0.56	0.74	0.96
	Sound (NC)	<15	<15	21	29	35	40	45
	Throw (ft.)	7-15-30	11-22-45	15-30-51	19-37-57	22-41-61	26-47-69	30-50-72
12	Flow Rate (cfm)	297	445	593	742	890	1038	1187
	Static Pressure (in. w.g.)	0.07	0.15	0.26	0.40	0.58	0.78	1.01
	Sound (NC)	<15	15	24	32	38	44	47
	Throw (ft.)	10-19-38	14-29-57	19-38-65	24-48-74	29-52-79	33-60-88	38-64-93
14	Flow Rate (cfm)	406	609	811	1014	1217	1420	1623
	Static Pressure (in. w.g.)	0.07	0.15	0.26	0.41	0.58	0.79	1.02
	Sound (NC)	<15	15	25	33	39	44	48
	Throw (ft.)	11-22-45	17-33-67	22-45-76	28-56-86	33-61-91	39-70-103	45-75-108
16	Flow Rate (cfm)	518	778	1036	1296	1555	1815	2074
	Static Pressure (in. w.g.)	0.07	0.14	0.26	0.41	0.58	0.80	1.03
	Sound (NC)	<15	16	26	33	39	44	49
	Throw (ft.)	13-25-50	19-38-76	25-50-86	32-63-97	38-69-103	44-79-117	50-84-122
18	Flow Rate (cfm)	601	902	1202	1503	1804	2105	2406
	Static Pressure (in. w.g.)	0.06	0.13	0.24	0.37	0.54	0.74	0.96
	Sound (NC)	<15	16	26	33	39	44	49
	Throw (ft.)	14-27-54	20-41-81	27-54-105	34-68-110	41-74-111	47-85-126	54-91-132
20	Flow Rate (cfm)	835	1253	1670	2088	2506	2924	3341
	Static Pressure (in. w.g.)	0.06	0.12	0.22	0.34	0.49	0.68	0.88
	Sound (NC)	<15	17	27	34	40	46	51
	Throw (ft.)	16-32-64	24-48-96	32-64-110	40-80-123	48-87-131	56-100-148	64-107-155

**Performance Notes:**

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow cfm: Based on standard air density and isothermal conditions.
3. Noise Criteria: Noise criteria [NC] curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level<sub>Re</sub>: 10<sup>-12</sup> watts.
4. Static Pressure: in. w.g.
5. Projection: Projection distance [THROW] in feet from the Nozzle discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].
6. Nozzle Velocity: Nozzle Discharge Velocity in feet per minute [fpm].
7. Terminal Velocity: Maximum velocity [Vt] in feet per minute at the specified distance from the outlet face [THROW] 400 fpm, 200 fpm, and 100 fpm respectively.



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