

### Product Description

When you need a clean look for your commercial air distribution project, nothing beats the OPD series for lay-in ceiling applications.

The OPD offers indirect and high volume air delivery while providing the clean aesthetics preferred by many owners, facility managers, and occupants.

Plaque and plenum designs ensure true omnidirectional air flow as well as quiet, unobtrusive operation. This makes the OPD an efficient alternative to more traditional step-down cone models.

The OPD is offered with and without plenum insulation. Several fixed collar sizes are available as is a non-collar version for inventory flexibility.



### Models

Part #	Description	Ctn Qty
OPD06NI	Fixed 6" collar; no insulation	1
OPD06	Fixed 6" collar; R1 insulation	1
OPD066	Fixed 6" collar; R6 insulation	1
OPD08NI	Fixed 8" collar; no insulation	1
OPD08	Fixed 8" collar; R1 insulation	1
OPD086	Fixed 8" collar; R6 insulation	1
OPD10NI	Fixed 10" collar; no insulation	1
OPD10	Fixed 10" collar; R1 insulation	1
OPD106	Fixed 10" collar; R6 insulation	1
OPD12NI	Fixed 12" collar; no insulation	1
OPD12	Fixed 12" collar; R1 insulation	1
OPD126	Fixed 12" collar; R6 insulation	1
OPD14NI	Fixed 14" collar; no insulation	1
OPD14	Fixed 14" collar; R1 insulation	1
OPD146	Fixed 14" collar; R6 insulation	1
OPDANI	no collar; no insulation	1
OPDA	no collar; R1 insulation	1
OPDA6	no collar; R6 insulation	1

### Features, Advantages, Benefits

- ❑ Steel construction
- ❑ 360° air diffusion
- ❑ Quiet, unobtrusive operation
- ❑ Heavy-gauge plaque with corner radius
- ❑ Non-insulated & R1 and R6 insulation options
- ❑ Fixed collars in 6", 8", 10", 12", 14"
- ❑ Non-collar models for use with separate 5400 Series snap-in collar

### Accessories

Series #	Description
5400	Collar (in 6", 7", 8", 9", 10", 12")
3800	Butterfly damper (in 6", 7", 8", 9", 10", 12", 14")
3900	Radial Damper (in 6", 7", 8", 9", 10", 12", 14")

## Performance Data

Collar Size ↓	Neck Velocity →	400	500	600	700	800	900	1000	1200	1400	1600
6" An= .20 Ak= .78	Cfm	80	100	120	135	155	175	195	240	280	320
	Ps	<.01	.01	.02	.02	.03	.04	.04	.06	.09	.11
	Nc	<25 dB	<25 dB	<25 dB	<25 dB	<25 dB	<25 dB	<25 dB	25 dB	30 dB	35 dB
	Throw	2	3	3	4	4	5	5	6	7	8
7" An= .27 Ak= .88	Cfm	110	135	160	190	200	240	270	320	380	420
	Ps	.01	.01	.02	.03	.03	.04	.05	.07	.10	.13
	Nc	<25 dB	<25 dB	<25 dB	<25 dB	<25 dB	<25 dB	25 dB	30 dB	35 dB	40 dB
	Throw	3	4	5	5	6	7	8	9	11	13
8" An= .35 Ak= .92	Cfm	140	175	210	245	280	320	350	420	490	560
	Ps	.01	.02	.02	.03	.04	.05	.06	.09	.12	.15
	Nc	<25 dB	<25 dB	<25 dB	<25 dB	<25 dB	25 dB	30 dB	35 dB	35 dB	40 dB
	Throw	4	5	6	7	7	8	9	11	13	15
9" An= .44 Ak= 1.20	Cfm	180	220	270	310	350	390	440	530	610	700
	Ps	.01	.02	.03	.04	.05	.06	.07	.10	.15	.18
	Nc	<25 dB	<25 dB	<25 dB	<25 dB	25 dB	30 dB	35 dB	40 dB	40 dB	45 dB
	Throw	5	6	7	8	10	11	12	15	17	19
10" An= .54 Ak= 1.20	Cfm	220	270	325	380	435	490	545	655	765	870
	Ps	.01	.02	.03	.04	.05	.07	.08	.12	.17	.21
	Nc	<25 dB	<25 dB	<25 dB	<25 dB	25 dB	30 dB	35 dB	35 dB	40 dB	45 dB
	Throw	6	7	9	10	11	13	14	17	20	22
12" An= .78 Ak= 1.65	Cfm	320	390	470	550	630	710	790	940	1100	1250
	Ps	.02	.02	.03	.05	.06	.07	.09	.13	.18	.23
	Nc	<25 dB	<25 dB	<25 dB	25 dB	30 dB	35 dB	35 dB	40 dB	45 dB	>45 dB
	Throw	6	8	9	11	12	14	15	18	21	24
14" An= 1.07 Ak= 2.06	Cfm	430	540	640	750	860	960	1075	1275	1500	1700
	Ps	.02	.04	.05	.07	.09	.12	.14	.21	.28	.35
	Nc	<25 dB	<25 dB	<25 dB	25 dB	30 dB	35 dB	40 dB	40 dB	45 dB	>45 dB
	Throw	7	8	10	12	13	15	16	19	23	25

Terminal velocity = 75 fpm

An = Neck (collar) Area. Measured in square feet.

Ak = Effective Area. The calculated area of the outlet based on average, measured velocity between fins. Measured in square feet.

Neck Velocity = Velocity of air flow through the nominal area of the duct connection to the diffuser assembly. Measured in feet per minute.

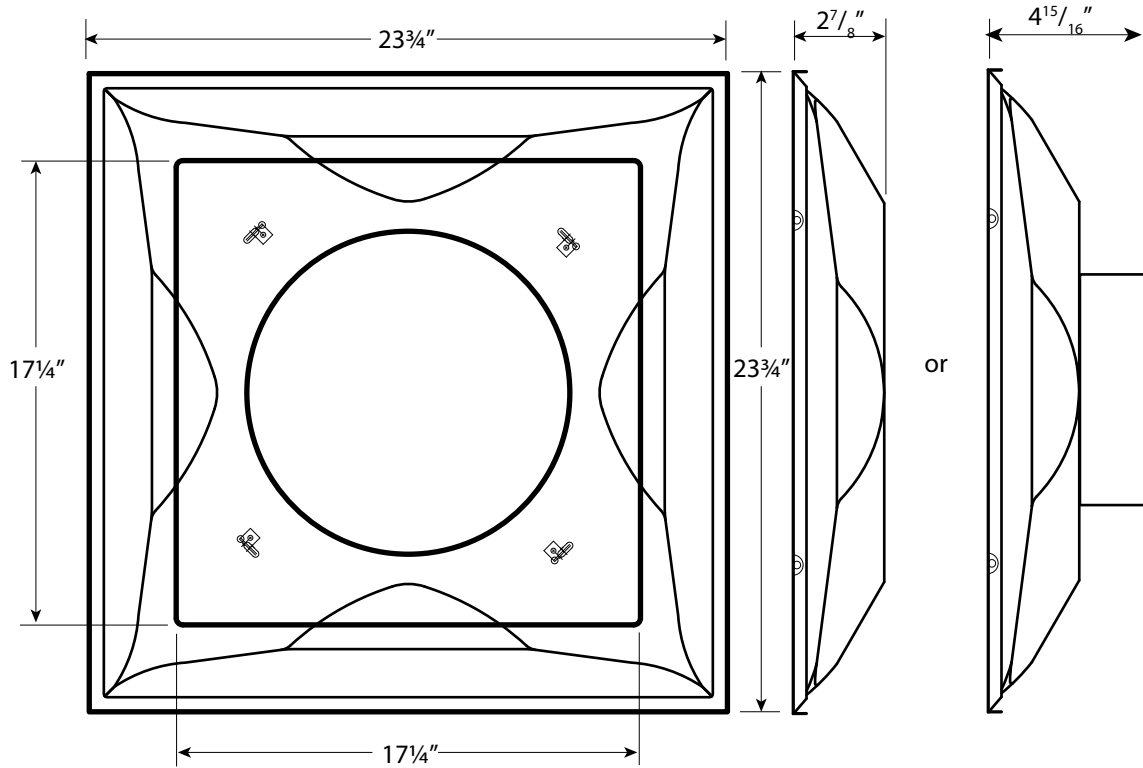
Cfm = Air flow rate. Volume of air moving past a given plane per unit of time. Measured in cubic feet per minute.

Ps = Static Pressure. The normal, outward force of air within a duct. Measured in inches of H<sub>2</sub>O.

Nc = Discharge acoustical noise, based on 10 dB room absorption. Measured to the nearest 1.0 dB

Throw = Distance the air stream travels from the outlet to a point where terminal velocity is reached. Measured in feet.

## Dimensions



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