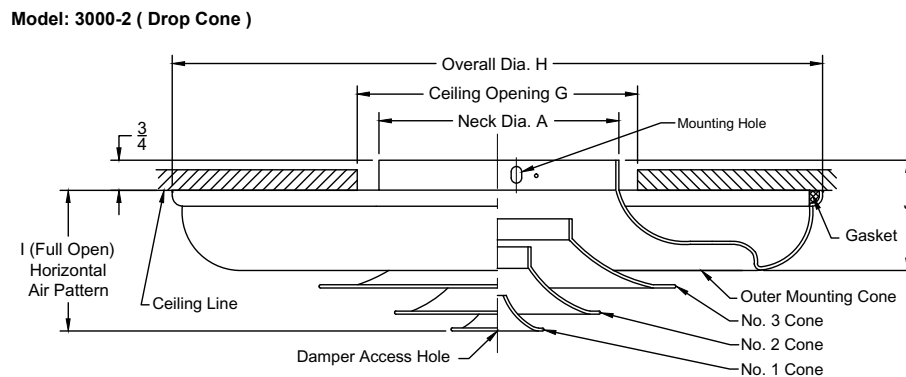
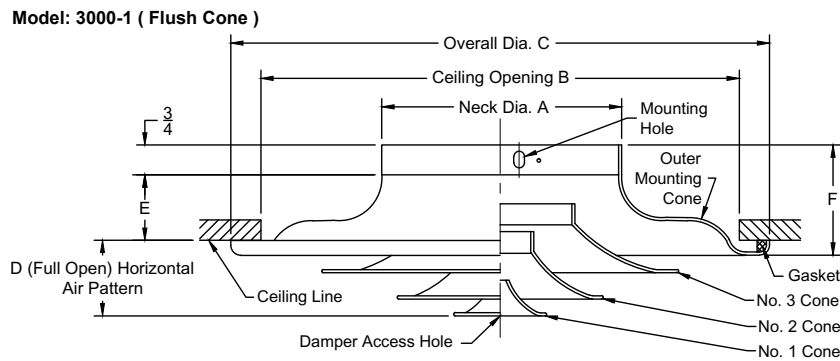


MODEL 3000

Model 3000 is an adjustable 3 Cone round diffuser that incorporates a high induction design to efficiently handle large volumes of air. It is fully adjustable from horizontal to vertical projection for spot heating or cooling applications.



- High induction capacity with 3 cones
- Fully adjustable from horizontal to vertical discharge
- Low profile flush face, or dropped face designs are available



| Size Designation | Neck Size | A | B | C | D | E | F | G | H | I | J |
|------------------|-----------|--------|----|--------|-------|--------|-------|----|--------|--------|-------|
| 3006 | 6 | 5 7/8 | 12 | 13 7/8 | 2 1/4 | 1 3/4 | 3 | 7 | 16 1/4 | 3 7/8 | 2 5/8 |
| 3008 | 8 | 7 7/8 | 16 | 18 5/8 | 2 5/8 | 2 | 3 5/8 | 9 | 21 | 4 3/4 | 3 5/8 |
| 3010 | 10 | 9 7/8 | 20 | 22 1/8 | 3 | 2 5/8 | 3 3/4 | 11 | 26 3/8 | 5 9/16 | 4 |
| 3012 | 12 | 1 7/8 | 24 | 27 | 3 1/2 | 4 3/8 | 5 | 13 | 31 1/2 | 6 3/4 | 4 5/8 |
| 3014 | 14 | 13 7/8 | 28 | 31 1/4 | 4 1/4 | 4 7/16 | 5 5/8 | 15 | 36 7/8 | 8 | 5 1/4 |
| 3016 | 16 | 15 7/8 | 32 | 36 1/2 | 4 3/4 | 4 1/2 | 6 1/8 | 17 | 42 | 8 7/8 | 6 |
| 3018 | 18 | 17 7/8 | 36 | 41 3/8 | 5 | 4 5/8 | 6 3/4 | 19 | 47 5/8 | 9 7/8 | 6 5/8 |
| 3020 | 20 | 19 7/8 | 40 | 45 1/4 | 5 3/8 | 5 1/2 | 7 1/2 | 21 | 52 3/8 | 10 3/4 | 7 1/4 |
| 3024 | 24 | 23 7/8 | 40 | 45 1/4 | 5 3/8 | 5 1/2 | 7 1/2 | 25 | 52 3/8 | 10 3/4 | 7 1/4 |

SERIES 3000 SPECIFICATIONS

- Air Diffusers shall be Model 3000 manufactured by METALAIRE. Diffuser shall be constructed of 3 round inner cones and a round outer frame. Diffuser shall be adjustable to allow the discharge pattern to be set from full horizontal to vertical. Units shall be aluminum construction. The units shall be the size and quantity as outlined in the plans and specifications.
- Pattern adjustment shall be accomplished by rotating the innermost cone. The inner core assembly shall be removable for installation and for access into the ductwork. The center cone shall include an access hole to allow adjustment of an optional damper.

MODEL 3000-1 – FLUSH FRAME

- Diffuser shall have an outer frame that allows flush mounting to the ceiling opening.

MODEL 3000-2 – DROP FRAME

- Diffuser shall have a dropped outer frame to move the discharge jet away from the ceiling surface. Dropped frame shall minimize ceiling smudging.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70-2006.

Paint Specification

Process shall be anodic electro-deposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

3000 MODEL NUMBER SPECIFICATION

ADJUSTABLE ROUND DIFFUSER 3 CONE
MODEL 3000 — ALUMINUM

| Model | | Available Neck | Available Finishes | |
|--------------|---------------|----------------|------------------------------|------------------------|
| Model 3000-1 | Surface Mount | 6 | Standard | |
| Model 3000-2 | Drop Face | 8 | 01 | White |
| | | 10 | Optional | |
| | | 12 | 02 | Satin Silver |
| | | 14 | 03 | Black |
| | | 16 | 24 | Mill |
| | | 18 | 28 | Custom Color |
| | | 20 | Available Accessories | |
| | | 24 | D3 | Aluminum Radial Damper |
| | | | SD3 | Steel Radial Damper |
| | | | G3 | Round Equalizing Grid |
| | | | GD3 | Combo Grid / Damper |
| | | | BDS | Butterfly Damper |
| | | | RSD | Radial Shutter Damper |

| Available Options | |
|-------------------|--------------|
| SC | Safety Chain |

SERIES 3000 PERFORMANCE DATA MODEL 3000

CEILING
DIFFUSERS

ROUND
CEILING DIFFUSERS

3000

| Neck Size | fpm Neck Vel | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 |
|-----------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Pv | 0.01 | 0.016 | 0.023 | 0.031 | 0.04 | 0.051 | 0.063 | 0.09 | 0.122 | 0.16 |
| | Ps Horiz. | 0.011 | 0.018 | 0.026 | 0.035 | 0.046 | 0.059 | 0.072 | 0.105 | 0.145 | 0.19 |
| | Ps Vert. | 0.019 | 0.03 | 0.043 | 0.058 | 0.075 | 0.096 | 0.115 | 0.17 | 0.225 | 0.3 |
| 6 | CFM | 80 | 100 | 110 | 140 | 160 | 180 | 200 | 240 | 280 | 320 |
| | Throw | 1-3 | 2-4 | 2-5 | 3-6 | 3-7 | 3-8 | 4-8 | 4-9 | 5-10 | 6-12 |
| | NC | - | - | - | 20 | 24 | 27 | 36 | 36 | 39 | 44 |
| 8 | CFM | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 490 | 560 |
| | Throw | 2-4 | 2-5 | 3-6 | 3-7 | 4-8 | 4-10 | 5-11 | 5-13 | 6-14 | 7-16 |
| | NC | - | - | - | 20 | 24 | 27 | 31 | 36 | 39 | 44 |
| 10 | CFM | 220 | 270 | 330 | 380 | 435 | 490 | 545 | 655 | 765 | 870 |
| | Throw | 2-5 | 3-6 | 3-7 | 4-8 | 5-10 | 6-11 | 6-12 | 7-14 | 8-18 | 9-21 |
| | NC | - | - | - | 21 | 25 | 28 | 32 | 37 | 40 | 45 |
| 12 | CFM | 315 | 390 | 470 | 550 | 630 | 710 | 785 | 940 | 1100 | 1260 |
| | Throw | 3-7 | 3-8 | 4-10 | 5-11 | 6-13 | 7-15 | 8-17 | 9-19 | 10-21 | 12-25 |
| | NC | - | - | 20 | 22 | 26 | 29 | 33 | 38 | 41 | 46 |
| 14 | CFM | 425 | 535 | 640 | 750 | 855 | 965 | 1070 | 1285 | 1500 | 1710 |
| | Throw | 3-8 | 4-9 | 5-11 | 6-13 | 7-16 | 8-18 | 9-20 | 11-13 | 13-26 | 15-30 |
| | NC | - | - | 20 | 23 | 27 | 31 | 34 | 40 | 43 | 48 |
| 16 | CFM | 560 | 700 | 840 | 980 | 1120 | 1260 | 1400 | 1680 | 1960 | 2240 |
| | Throw | 4-9 | 5-10 | 5-13 | 6-15 | 7-17 | 9-21 | 10-23 | 12-27 | 14-30 | 16-35 |
| | NC | - | - | 21 | 24 | 28 | 33 | 36 | 41 | 44 | 49 |
| 18 | CFM | 710 | 885 | 1060 | 1240 | 1420 | 1595 | 1770 | 2120 | 2480 | 2830 |
| | Throw | 4-10 | 5-12 | 6-15 | 7-17 | 9-21 | 11-23 | 13-26 | 15-31 | 16-34 | 18-38 |
| | NC | - | - | 21 | 25 | 29 | 34 | 37 | 42 | 45 | 51 |
| 20 | CFM | 875 | 1090 | 1310 | 1525 | 1745 | 1965 | 2180 | 2620 | 3060 | 3490 |
| | Throw | 4-11 | 6-14 | 7-16 | 8-19 | 9-23 | 17-23 | 13-28 | 15-33 | 18-38 | 20-42 |
| | NC | - | 20 | 22 | 26 | 30 | 36 | 39 | 44 | 47 | 53 |
| 24 | CFM | 1255 | 1570 | 1885 | 2200 | 2510 | 2825 | 3140 | 3770 | 4395 | 5025 |
| | Throw | 12-24 | 13-26 | 14-28 | 15-30 | 16-33 | 17-35 | 18-37 | 20-40 | 23-45 | 25-50 |
| | NC | 22 | 26 | 28 | 31 | 35 | 38 | 41 | 47 | 51 | 55 |