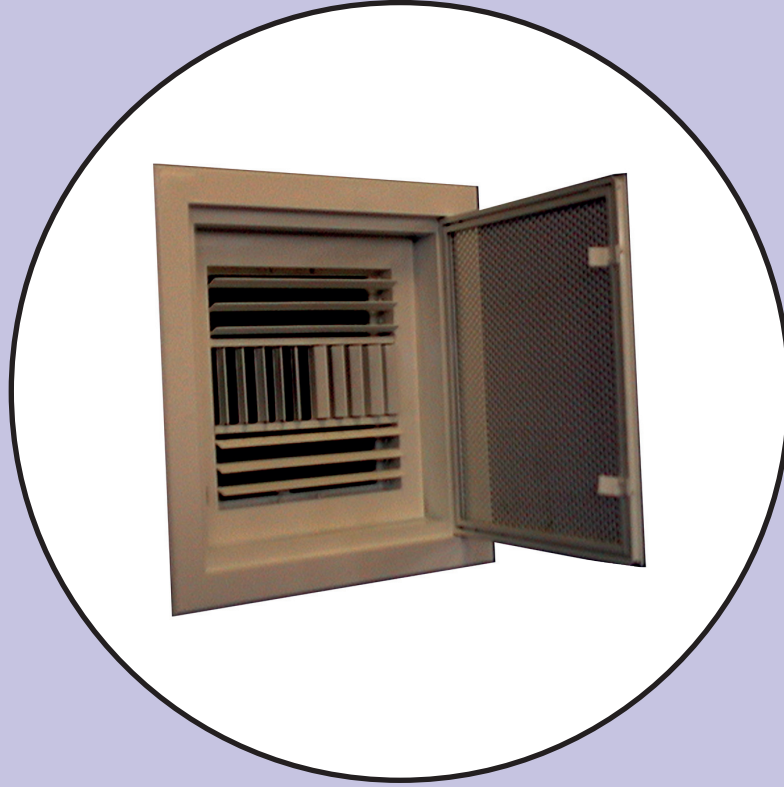


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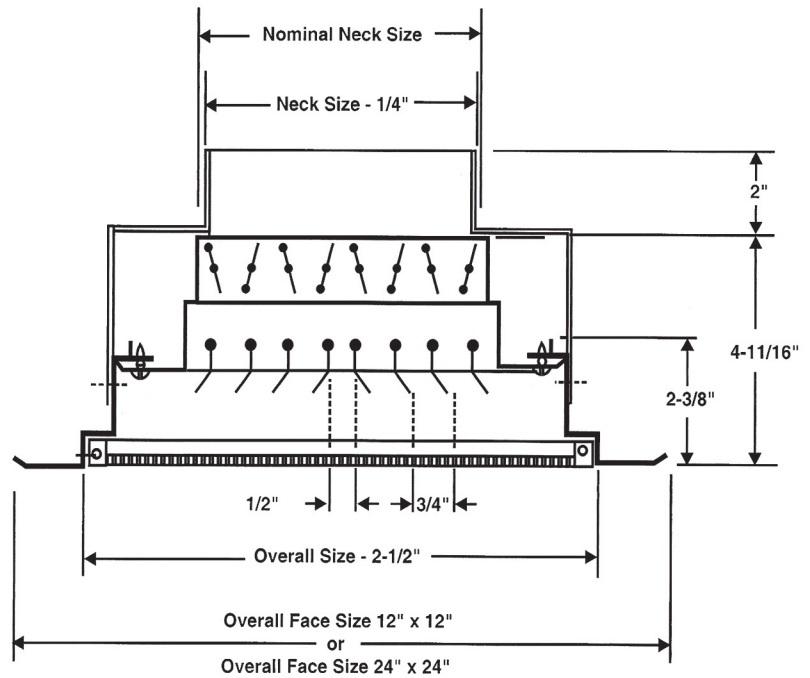
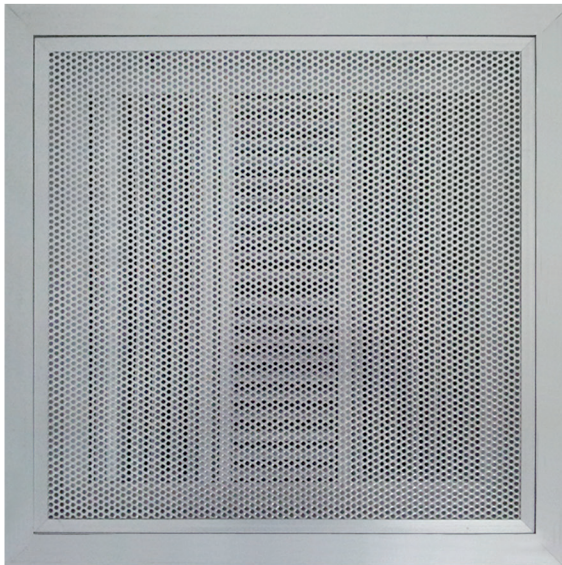
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شركة الخليج لفتحات التكييف المركزي
GULF GRILLES CO.



PERFORATED FACE
CEILING DIFFUSER

A04
PERFORATED FACE
CEILING DIFFUSER



PRODUCT DESCRIPTION

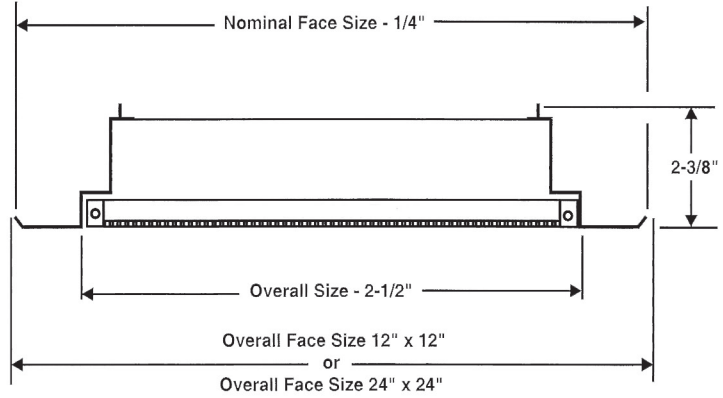
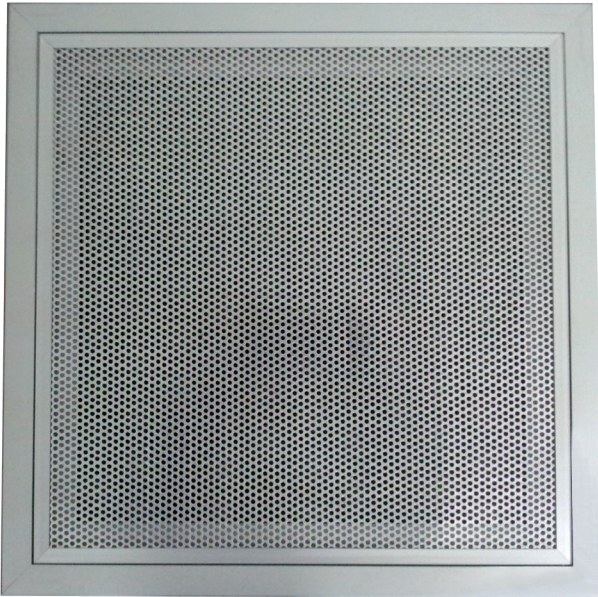
Perforated face supply ceiling diffusers with fully adjustable air pattern deflectors (1,2,3 & 4 way) with volume control damper and with round or square neck.

- The frame and blades are extruded aluminium alloy and electrostatic polyester powder coated with a white finish.
- The outer frame has a typical wall thickness of 1/16".
- Perforated face plate is SNAP-IN type, removable face plate, gives easy access to control deflectors or dampers.
- Air pattern control is comprised of individually adjustable angle-curved deflectors, capable of producing fully controlled air direction for greater performance and efficiency.

- Diffuser's perforated face plate is made of polyester powder coated aluminum material with 11/64" diameter perforation, at a pitch of 15/64", 60° staggered to produce 45% free area.
- All internal portions of the diffuser is non-reflective.
- Galvanized steel adaptor having square to round or square to square is provided.
- Standard finish white color for frame, blades and perforated face. Damper and adaptor in black color. Painted under electrostatic polyester powder coated system. Other colors are also available on request. The polyester powder of highest quality are used to enhance the appearance of the units.
- Perforated ceiling diffuser is designed for heating, cooling and ventilating applications.
- Equalizing grid is provided as an option.

Listed Sizes

| Face or Ceiling Module Size | Round Neck Size | Square Neck Size |
|-----------------------------|------------------------------|--|
| 12" x 12" | 5",6",8" | 6" x 6" 8" x 8" |
| 24" x 24" | 6",8",10",12" 14",16",18" | 6" x 6" 8" x 8" 10" x 10" 12" x 12" |



PRODUCT DESCRIPTION

- Perforated face return ceiling diffuser is comprised of perforated face sheet and frame having square neck.
- Perforated face plate is made of polyester powder coated aluminum material with $11/64$ " diameter perforation, at a pitch of $15/64$ ", 60° staggered to produce 45% of free area.
- The outer frame is extruded aluminum alloy having a typical wall thickness of $1/16$ ".
- The perforated face plate is SNAP-IN type, removable face plate.
- Standard finish is white color for frame and perforated face. Painted under electrostatic polyester powder coated system. Other colors are also available on request. The polyester powder of highest quality are used to enhance the appearance of the units.

Listed Sizes

| Face or Ceiling Module Size | Neck Size |
|-----------------------------|-----------|
| 12" x 12" | 10" x 10" |
| 24" x 24" | 22" x 22" |

PERFORATED CEILING DIFFUSERS PERFORMANCE DATA

12" x 12" Module Size

| Neck Size (Inches) | Neck Area (Sq. ft.) | Neck Velocity, FPM | | | | | | | | | | |
|-----------------------|------------------------|-----------------------------|---------|---------|------|------|------|------|-------|-------|-------|-------|
| | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | | |
| | | Velocity Pressure, in. W.G. | | | | | | | | | | |
| | | .006 | .010 | .016 | .023 | .031 | .040 | .063 | .090 | .123 | | |
| 6 x 6 | 0.25 | Total Pressure, in. W.G. | | | | | | | | | | |
| | | .013 | .023 | .037 | .053 | .072 | .094 | .147 | .211 | .287 | | |
| | | Flow Rate, CFM | | | | | | | | | | |
| | | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | | |
| | | NC | | | | | | | | | | |
| | | <20 | <20 | <20 | <20 | 21 | 24 | 31 | 39 | 45 | | |
| Throw, Feet | 4 - way | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 2-6 | 3-8 | 4-9 | 5-11 | | |
| | | 3 - way | 1-3 | 1-5 | 2-6 | 3-8 | 4-9 | 5-10 | 6-13 | 8-16 | 9-17 | |
| | | | 2 - way | 1-4 | 2-7 | 3-9 | 4-10 | 6-12 | 7-14 | 9-18 | 10-19 | 12-21 |
| | | | | 1 - way | 1-6 | 2-8 | 4-11 | 6-13 | 7-15 | 8-17 | 11-20 | 13-22 |
| 8 x 8 | 0.44 | Total Pressure, in. W.G. | | | | | | | | | | |
| | | .018 | .031 | .049 | .071 | .096 | .126 | .196 | .283 | .385 | | |
| | | Flow Rate, CFM | | | | | | | | | | |
| | | 133 | 177 | 222 | 266 | 310 | 355 | 444 | 532 | 621 | | |
| | | NC | | | | | | | | | | |
| | | <20 | <20 | <20 | 20 | 25 | 29 | 35 | 44 | >50 | | |
| Throw, Feet | 4 - way | 1-2 | 1-4 | 1-6 | 2-7 | 3-8 | 4-9 | 6-12 | 7-14 | 8-17 | | |
| | | 3 - way | 1-5 | 2-8 | 4-10 | 5-12 | 7-14 | 8-16 | 10-20 | 12-24 | 14-26 | |
| | | | 2 - way | 2-8 | 4-10 | 6-13 | 8-16 | 9-19 | 10-21 | 13-26 | 16-29 | 19-31 |
| | | | | 1 - way | 3-9 | 5-13 | 8-16 | 9-19 | 11-23 | 13-26 | 16-30 | 19-33 |
| Return 10 x 10 | 0.69 | Negative SP, in. W.G. | | | | | | | | | | |
| | | .024 | .043 | .068 | .098 | .133 | .174 | .271 | .391 | .532 | | |
| | | Flow Rate, CFM | | | | | | | | | | |
| | | 208 | 277 | 347 | 416 | 485 | 555 | 694 | 832 | 971 | | |
| | | NC | | | | | | | | | | |
| | | <20 | <20 | <20 | <20 | <20 | 21 | 28 | 34 | 40 | | |

12" x 12" Module Size

| Neck Size (Inches) | Neck Area (Sq. ft.) | Neck Velocity, FPM | | | | | | | | | | |
|-----------------------|------------------------|-----------------------------|---------|---------|------|------|------|------|------|-------|-------|-------|
| | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | | |
| | | Velocity Pressure, in. W.G. | | | | | | | | | | |
| | | .006 | .010 | .016 | .023 | .031 | .040 | .063 | .090 | .123 | | |
| 5 Dia. | 0.136 | Total Pressure, in. W.G. | | | | | | | | | | |
| | | .010 | .017 | .027 | .039 | .053 | .070 | .109 | .157 | .214 | | |
| | | Flow Rate, CFM | | | | | | | | | | |
| | | 41 | 54 | 68 | 82 | 95 | 109 | 136 | 163 | 190 | | |
| | | NC | | | | | | | | | | |
| | | <20 | <20 | <20 | <20 | <20 | <20 | 24 | 30 | 35 | | |
| Throw, Feet | 4 - way | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 3-6 | 4-8 | 4-9 | | |
| | | 3 - way | 1-1 | 1-2 | 1-3 | 2-4 | 3-5 | 4-6 | 5-9 | 6-11 | 7-12 | |
| | | | 2 - way | 1-2 | 1-4 | 2-5 | 3-6 | 4-7 | 6-9 | 7-12 | 9-13 | 10-15 |
| | | | | 1 - way | 1-3 | 1-6 | 2-6 | 3-7 | 5-9 | 6-10 | 8-13 | 10-15 |
| 6 Dia. | 0.196 | Total Pressure, in. W.G. | | | | | | | | | | |
| | | .012 | .021 | .033 | .047 | .064 | .084 | .131 | .189 | .257 | | |
| | | Flow Rate, CFM | | | | | | | | | | |
| | | 58 | 78 | 98 | 117 | 137 | 156 | 196 | 235 | 274 | | |
| | | NC | | | | | | | | | | |
| | | <20 | <20 | <20 | <20 | <20 | 22 | 28 | 34 | 40 | | |
| Throw, Feet | 4 - way | 1-1 | 1-1 | 1-3 | 1-4 | 1-4 | 1-5 | 3-6 | 4-8 | 4-9 | | |
| | | 3 - way | 1-2 | 1-4 | 1-5 | 2-6 | 3-7 | 4-8 | 5-11 | 6-13 | 7-14 | |
| | | | 2 - way | 1-3 | 1-6 | 2-7 | 3-9 | 4-10 | 6-12 | 7-15 | 9-16 | 10-18 |
| | | | | 1 - way | 1-4 | 2-7 | 3-9 | 4-11 | 6-13 | 7-14 | 9-17 | 11-19 |
| 8 Dia. | 0.348 | Total Pressure, in. W.G. | | | | | | | | | | |
| | | .015 | .027 | .043 | .062 | .084 | .110 | .171 | .247 | .336 | | |
| | | Flow Rate, CFM | | | | | | | | | | |
| | | 104 | 139 | 174 | 209 | 244 | 279 | 349 | 418 | 488 | | |
| | | NC | | | | | | | | | | |
| | | <20 | <20 | <20 | <20 | 22 | 25 | 32 | 38 | 44 | | |
| Throw, Feet | 4 - way | 1-2 | 1-3 | 1-5 | 2-6 | 2-7 | 3-8 | 5-10 | 6-12 | 7-14 | | |
| | | 3 - way | 1-4 | 2-6 | 3-8 | 4-10 | 5-11 | 6-13 | 8-17 | 10-20 | 11-22 | |
| | | | 2 - way | 1-6 | 3-9 | 4-11 | 6-13 | 8-16 | 9-18 | 11-22 | 13-24 | 16-26 |
| | | | | 1 - way | 2-8 | 4-11 | 6-14 | 8-16 | 9-19 | 11-22 | 14-25 | 16-28 |

- All Pressures are in inches of water.
- Throw values are given for Terminal Velocities of 100 and 50 fpm.
- NC values are based on a room absorption of 10 dB, re 10⁻¹² watts.

PERFORATED CEILING DIFFUSERS PERFORMANCE DATA

24" x 24" Module Size

| Neck Size (Inches) | Neck Area (Sq. ft.) | Neck Velocity, FPM | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | |
|--------------------|---------------------|-----------------------------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 6 x 6 | 0.25 | Velocity Pressure, in. W.G. | .006 | .010 | .016 | .023 | .031 | .040 | .063 | .090 | .123 | |
| | | Total Pressure, in. W.G. | .013 | .023 | .037 | .053 | .072 | .094 | .147 | .211 | .287 | |
| | | Flow Rate, CFM | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | |
| | | NC | <20 | <20 | <20 | 23 | 26 | 29 | 37 | 43 | 48 | |
| | | Throw, Feet | 4 - way | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 2-6 | 3-8 | 4-9 | 5-11 |
| | | | 3 - way | 1-3 | 1-5 | 2-6 | 3-8 | 4-9 | 5-10 | 6-13 | 8-16 | 9-17 |
| 2 - way | 1-4 | | 2-7 | 3-9 | 4-10 | 6-12 | 7-14 | 9-18 | 10-19 | 12-21 | | |
| 1 - way | 1-6 | | 2-8 | 4-11 | 6-13 | 7-15 | 8-17 | 11-20 | 13-22 | 15-24 | | |
| 8 x 8 | 0.44 | Total Pressure, in. W.G. | .018 | .031 | .049 | .071 | .096 | .126 | .196 | .283 | .385 | |
| | | Flow Rate, CFM | 133 | 177 | 222 | 266 | 310 | 355 | 444 | 532 | 621 | |
| | | NC | <20 | <20 | 23 | 27 | 31 | 35 | 43 | 49 | >50 | |
| | | Throw, Feet | 4 - way | 1-2 | 1-4 | 1-6 | 2-7 | 3-8 | 4-9 | 6-12 | 7-14 | 8-17 |
| | | | 3 - way | 1-5 | 2-8 | 4-10 | 5-12 | 7-14 | 8-16 | 10-20 | 12-24 | 14-26 |
| | | | 2 - way | 2-8 | 4-10 | 6-13 | 8-16 | 9-19 | 10-21 | 13-26 | 16-29 | 19-31 |
| 1 - way | 3-9 | | 5-13 | 8-16 | 9-19 | 11-23 | 13-26 | 16-30 | 19-33 | 23-35 | | |
| 10 x 10 | 0.69 | Total Pressure, in. W.G. | .022 | .039 | .061 | .088 | .119 | .156 | .243 | .350 | .477 | |
| | | Flow Rate, CFM | 208 | 277 | 347 | 416 | 485 | 555 | 694 | 832 | 971 | |
| | | NC | <20 | 22 | 27 | 31 | 35 | 40 | 47 | >50 | >50 | |
| | | Throw, Feet | 4 - way | 1-4 | 2-6 | 3-8 | 4-10 | 5-11 | 6-13 | 8-16 | 10-20 | 11-23 |
| | | | 3 - way | 2-8 | 4-11 | 6-13 | 8-16 | 9-19 | 11-22 | 13-27 | 16-32 | 19-35 |
| | | | 2 - way | 3-11 | 6-14 | 9-18 | 11-22 | 13-26 | 14-29 | 18-36 | 22-39 | 26-43 |
| 1 - way | 5-13 | | 9-18 | 11-22 | 13-27 | 16-32 | 18-36 | 22-41 | 27-45 | 32-49 | | |
| 12 x 12 | 1.00 | Total Pressure, in. W.G. | .026 | .047 | .073 | .105 | .144 | .188 | .293 | .422 | .574 | |
| | | Flow Rate, CFM | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | |
| | | NC | <20 | 25 | 30 | 34 | 39 | 43 | >50 | >50 | >50 | |
| | | Throw, Feet | 4 - way | 1-6 | 3-8 | 4-11 | 6-13 | 7-15 | 8-17 | 11-22 | 13-26 | 15-30 |
| | | | 3 - way | 3-10 | 6-14 | 9-18 | 10-21 | 12-25 | 14-28 | 18-36 | 21-42 | 25-45 |
| | | | 2 - way | 5-14 | 9-19 | 12-24 | 14-29 | 17-34 | 19-39 | 24-46 | 29-51 | 34-55 |
| 1 - way | 8-17 | | 11-23 | 14-29 | 17-35 | 20-41 | 23-47 | 29-53 | 35-58 | 41-63 | | |
| 14 x 14 | 1.36 | Total Pressure, in. W.G. | .030 | .055 | .085 | .122 | .169 | .220 | .343 | .494 | .671 | |
| | | Flow Rate, CFM | 408 | 544 | 680 | 816 | 952 | 1088 | 1360 | 1632 | 1904 | |
| | | NC | <20 | 27 | 32 | 36 | 41 | 46 | >50 | >50 | >50 | |
| | | Throw, Feet | 4 - way | 1-8 | 4-10 | 5-13 | 8-16 | 9-19 | 10-22 | 14-28 | 16-32 | 19-37 |
| | | | 3 - way | 4-12 | 8-17 | 12-23 | 13-26 | 15-31 | 17-34 | 23-45 | 26-52 | 31-55 |
| | | | 2 - way | 7-17 | 12-24 | 15-30 | 17-36 | 22-42 | 24-49 | 30-56 | 36-62 | 42-67 |
| 1 - way | 11-21 | | 14-28 | 17-36 | 21-43 | 24-50 | 28-58 | 36-65 | 44-67 | 50-77 | | |
| 16 x 16 | 1.78 | Total Pressure, in. W.G. | .034 | .063 | .097 | .139 | .194 | .252 | .393 | .566 | .768 | |
| | | Flow Rate, CFM | 534 | 712 | 890 | 1068 | 1246 | 1424 | 1780 | 2136 | 2492 | |
| | | NC | 22 | 29 | 34 | 39 | 44 | >50 | >50 | >50 | >50 | |
| | | Throw, Feet | 4 - way | 1-10 | 5-12 | 6-15 | 10-19 | 11-23 | 12-27 | 17-34 | 19-38 | 23-43 |
| | | | 3 - way | 5-14 | 10-20 | 14-28 | 16-31 | 18-37 | 20-40 | 28-54 | 31-62 | 37-65 |
| | | | 2 - way | 9-20 | 15-29 | 18-36 | 20-43 | 27-50 | 29-59 | 36-66 | 43-73 | 50-79 |
| 1 - way | 14-25 | | 17-33 | 20-43 | 25-51 | 28-59 | 33-69 | 43-77 | 53-84 | 59-94 | | |
| 18 x 18 | 2.25 | Total Pressure, in. W.G. | .036 | .071 | .109 | .156 | .209 | .284 | .443 | .638 | .865 | |
| | | Flow Rate, CFM | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2250 | 2700 | 3150 | |
| | | NC | 23 | 31 | 36 | 42 | >50 | >50 | >50 | >50 | >50 | |
| | | Throw, Feet | 4 - way | 1-12 | 6-14 | 7-17 | 12-22 | 13-27 | 14-32 | 20-40 | 22-44 | 27-50 |
| | | | 3 - way | 6-16 | 12-23 | 16-32 | 18-36 | 21-43 | 23-46 | 33-63 | 36-72 | 43-75 |
| | | | 2 - way | 11-23 | 18-34 | 21-42 | 23-50 | 32-58 | 34-69 | 42-77 | 50-84 | 58-91 |
| 1 - way | 17-29 | | 20-38 | 23-50 | 29-59 | 32-68 | 38-80 | 50-89 | 62-97 | 68-108 | | |
| Return 22 x 22 | 3.36 | Negative SP, in. W.G. | .024 | .043 | .068 | .098 | .133 | .174 | .271 | .391 | .532 | |
| | | Flow Rate, CFM | 1008 | 1344 | 1680 | 2016 | 2352 | 2688 | 3360 | 4032 | 4704 | |
| | | NC | <20 | <20 | <20 | <20 | 22 | | | | | |

- All Pressures are in inches of water.
- Throw values are given for Terminal Velocities of 100 and 50 fpm.
- NC values are based on a room absorption of 10 dB, re 10⁻¹² watts.



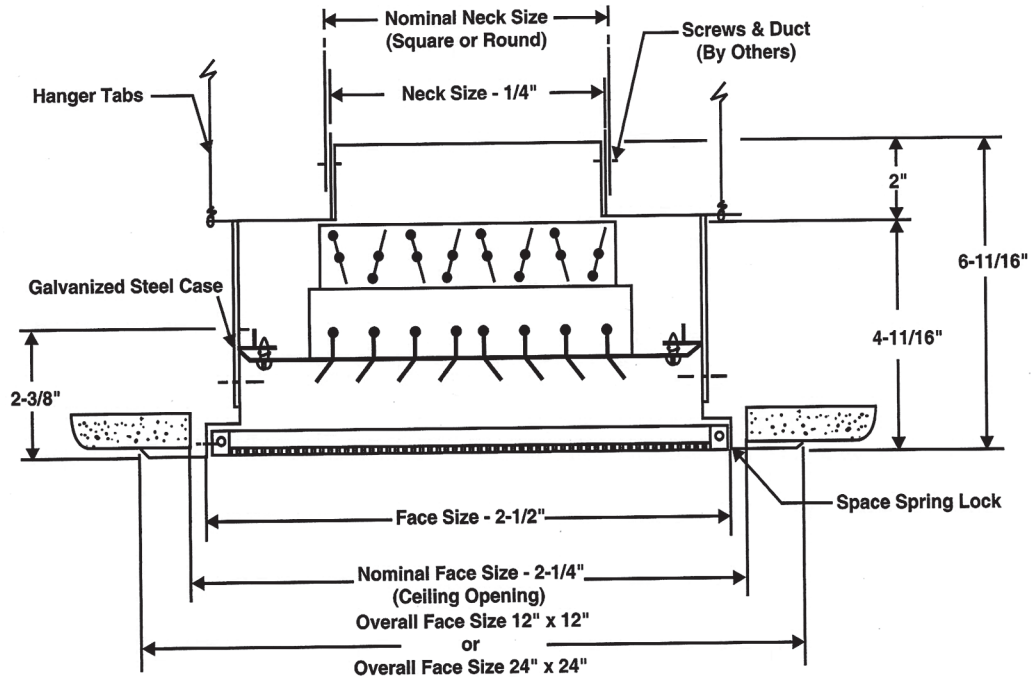
PERFORATED CEILING DIFFUSERS PERFORMANCE DATA

24" x 24" Module Size

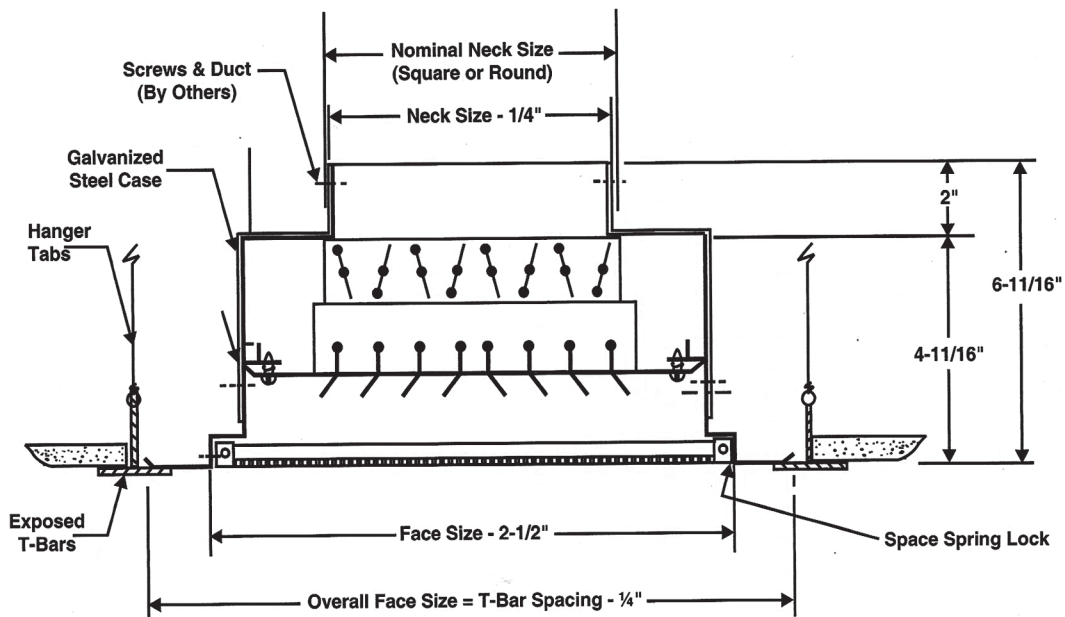
| Neck Size (Inches) | Neck Area (Sq. ft.) | Neck Velocity, FPM | | | | | | | | | | | |
|-----------------------|------------------------|-----------------------------|---------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | | | |
| 6 Dia. | 0.196 | Velocity Pressure, in. W.G. | .006 | .010 | .016 | .023 | .031 | .040 | .063 | .090 | .123 | | |
| | | Total Pressure, in. W.G. | .012 | .021 | .033 | .047 | .064 | .084 | .131 | .189 | .257 | | |
| | | Flow Rate, CFM | 58 | 78 | 98 | 117 | 137 | 156 | 196 | 235 | 274 | | |
| | | NC | <20 | <20 | <20 | 21 | 24 | 27 | 34 | 40 | 46 | | |
| | | Throw, Feet | 4 - way | 1-1 | 1-1 | 1-3 | 1-4 | 1-4 | 1-5 | 3-6 | 4-8 | 4-9 | |
| | | | 3 - way | 1-2 | 1-4 | 1-5 | 2-6 | 3-7 | 4-8 | 5-11 | 6-13 | 7-14 | |
| | | | 2 - way | 1-3 | 1-6 | 2-7 | 3-9 | 4-10 | 6-12 | 7-15 | 9-16 | 10-18 | |
| | | | 1 - way | 1-4 | 2-7 | 3-9 | 4-11 | 6-13 | 7-14 | 9-17 | 11-19 | 13-20 | |
| | | 8 Dia. | 0.348 | Total Pressure, in. W.G. | .015 | .027 | .043 | .062 | .084 | .110 | .171 | .247 | .336 |
| | | | | Flow Rate, CFM | 104 | 139 | 174 | 209 | 244 | 279 | 349 | 418 | 488 |
| NC | <20 | | | <20 | 21 | 25 | 29 | 33 | 40 | 46 | 50 | | |
| Throw, Feet | 4 - way | | | 1-2 | 1-3 | 1-5 | 2-6 | 2-7 | 3-8 | 5-10 | 6-12 | 7-14 | |
| | 3 - way | | | 1-4 | 2-6 | 3-8 | 4-10 | 5-11 | 6-13 | 8-17 | 10-20 | 11-22 | |
| | 2 - way | | | 1-6 | 3-9 | 4-11 | 6-13 | 8-16 | 9-18 | 11-22 | 13-24 | 16-26 | |
| | 1 - way | | | 2-8 | 4-11 | 6-14 | 8-16 | 9-19 | 11-22 | 14-25 | 16-28 | 19-30 | |
| 10 Dia. | 0.545 | | | Total Pressure, in. W.G. | .019 | .034 | .054 | .077 | .105 | .138 | .215 | .310 | .422 |
| | | | | Flow Rate, CFM | 163 | 218 | 272 | 327 | 381 | 436 | 545 | 654 | 763 |
| | | | | NC | <20 | 20 | 25 | 29 | 33 | 37 | 45 | >50 | >50 |
| | | Throw, Feet | 4 - way | 1-3 | 1-5 | 2-7 | 3-8 | 4-10 | 5-11 | 7-14 | 8-17 | 10-20 | |
| | | | 3 - way | 1-7 | 3-9 | 5-11 | 7-14 | 8-16 | 9-18 | 11-23 | 14-27 | 16-29 | |
| | | | 2 - way | 2-9 | 5-12 | 7-15 | 9-19 | 11-22 | 12-25 | 15-31 | 19-33 | 22-36 | |
| | | | 1 - way | 3-11 | 7-15 | 9-19 | 11-23 | 13-27 | 15-30 | 19-35 | 23-38 | 27-41 | |
| | | 12 Dia. | 0.785 | Total Pressure, in. W.G. | .023 | .041 | .065 | .093 | .127 | .166 | .259 | .373 | .507 |
| | | | | Flow Rate, CFM | 235 | 314 | 392 | 471 | 549 | 628 | 785 | 942 | 1099 |
| | | | | NC | <20 | 23 | 28 | 32 | 36 | 41 | 48 | >50 | >50 |
| Throw, Feet | 4 - way | | | 1-5 | 2-7 | 3-9 | 5-11 | 6-13 | 7-14 | 9-18 | 11-22 | 13-26 | |
| | 3 - way | | | 2-9 | 5-12 | 7-15 | 9-18 | 10-21 | 12-24 | 15-30 | 18-35 | 21-38 | |
| | 2 - way | | | 4-12 | 7-16 | 10-20 | 12-24 | 14-28 | 16-32 | 20-40 | 24-43 | 28-47 | |
| | 1 - way | | | 6-14 | 9-19 | 12-24 | 14-29 | 17-34 | 19-39 | 24-45 | 29-49 | 32-49 | |
| 14 Dia. | 1.06 | | | Total Pressure, in. W.G. | .027 | .048 | .075 | .108 | .147 | .192 | .299 | .431 | .587 |
| | | | | Flow Rate, CFM | 318 | 424 | 530 | 636 | 742 | 848 | 1060 | 1272 | 1484 |
| | | | | NC | <20 | 25 | 30 | 34 | 39 | 44 | >50 | >50 | >50 |
| | | Throw, Feet | 4 - way | 1-6 | 3-9 | 5-11 | 6-13 | 8-16 | 9-18 | 11-23 | 13-27 | 16-32 | |
| | | | 3 - way | 4-11 | 7-14 | 9-18 | 11-22 | 13-26 | 14-29 | 18-37 | 22-43 | 26-47 | |
| | | | 2 - way | 6-15 | 10-20 | 12-25 | 15-30 | 17-35 | 20-40 | 25-49 | 30-53 | 35-58 | |
| | | | 1 - way | 8-18 | 12-24 | 15-30 | 18-37 | 21-43 | 24-49 | 30-56 | 37-61 | 43-66 | |
| | | 16 Dia. | 1.39 | Total Pressure, in. W.G. | .032 | .056 | .088 | .127 | .172 | .225 | .351 | .506 | .689 |
| | | | | Flow Rate, CFM | 417 | 556 | 695 | 834 | 973 | 1112 | 1390 | 1668 | 1946 |
| | | | | NC | 20 | 27 | 32 | 37 | 42 | 48 | >50 | >50 | >50 |
| Throw, Feet | 4 - way | | | 1-7 | 4-11 | 7-13 | 8-15 | 10-19 | 11-21 | 13-27 | 15-32 | 19-38 | |
| | 3 - way | | | 6-13 | 9-16 | 11-21 | 13-26 | 16-31 | 17-34 | 21-44 | 24-51 | 31-56 | |
| | 2 - way | | | 8-18 | 13-24 | 14-30 | 18-35 | 20-41 | 24-47 | 30-58 | 36-63 | 41-69 | |
| | 1 - way | | | 10-21 | 15-28 | 18-35 | 22-44 | 25-52 | 29-59 | 36-60 | 43-72 | 51-79 | |
| 18 Dia. | 1.76 | | | Total Pressure, in. W.G. | .038 | .066 | .104 | .150 | .204 | .266 | .414 | .597 | .813 |
| | | | | Flow Rate, CFM | 528 | 704 | 880 | 1056 | 1232 | 1408 | 1760 | 2112 | 2464 |
| | | | | NC | 21 | 29 | 34 | 40 | 45 | >50 | >50 | >50 | >50 |
| | | Throw, Feet | 4 - way | 1-8 | 5-13 | 9-15 | 10-17 | 12-22 | 13-24 | 15-31 | 17-37 | 22-44 | |
| | | | 3 - way | 8-15 | 11-18 | 13-23 | 15-30 | 19-36 | 20-39 | 24-51 | 28-59 | 36-65 | |
| | | | 2 - way | 10-21 | 15-28 | 16-35 | 21-40 | 23-46 | 28-54 | 35-67 | 42-73 | 47-80 | |
| | | | 1 - way | 12-24 | 18-32 | 21-40 | 26-50 | 29-61 | 34-69 | 42-85 | 49-93 | 60-92 | |

- All Pressures are in inches of water.
- Throw values are given for Terminal Velocities of 100 and 50 fpm.
- NC values are based on a room absorption of 10 dB, re 10⁻¹² watts.

INSTALLATION DETAILS



SURFACE MOUNTING FLAT BORDER STYLE



EXPOSED T-BAR LAY-IN STYLE

Perforated Round Ceiling Diffuser



>Made of aluminium sheet, it can be exhaust or supply(with butterfly volume damper)