

July 26, 2016

Dear Valued Customer,

It has come to our attention that there are several unintentional errors in our 2016 Commercial Catalog. We apologize for any inconvenience this may have caused you. It is our highest interest to provide you with accurate specifications and information regarding our products.

We have created a PDF document so that you can download updated, full color pages to use as a reference, or to actually insert into your catalog. The specs on the page that have been updated are outlined in red.

The PDF may be found on the home page of our website under the headline, 2016 Commercial Catalog Updates (right side, midway down), or you can follow this link and it will be at the top of the page under Product Catalogs:

<http://www.shoemakermfg.com/Resource-Center/Downloads>

Please feel free to call us if you need any assistance or have any questions. If you would prefer us to mail you a copy of the updates, please give us a call, or email us:

sm@shoemakermfg.com

We are here to help. Our support phone number is 1-866-940-0696, and we are open Monday through Friday 7am - 4pm PT.

Sincerely,

Rhonda McCaughey
Sales Director
Shoemaker Manufacturing




PS All product information on our website is accurate and up to date. Please feel free at any time to refer to the product pages for the latest product information and supporting technical specifications.

Performance Data: 700MA/700MCB Series

| Neck Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | 400 | | 500 | | | 600 | | | 700 | | | 800 | | | 1000 | | | |
|-----------|-----------------------------------|---------------------|----------------|----|-----|-----|----|-----|------|----|-----|-------|-------|-------|-------|-------|-------|------|----|----|
| | | | Total Pressure | | | | | | | | | 0.038 | 0.049 | 0.066 | 0.092 | 0.114 | 0.180 | | | |
| 6×6-6 | 0.124 | CFM | 49 | | | 62 | | | 74 | | | 87 | | | 99 | | | 124 | | |
| | | NC | <20 | | | | | | | | | 20 | | | | | | | | |
| | | Throw (ft.) | 2 | 3 | 5 | 2 | 3 | 7 | 3 | 4 | 8 | 3 | 5 | 9 | 4 | 6 | 12 | 5 | 7 | 13 |
| 8×8-8 | 0.245 | CFM | 98 | | | 122 | | | 147 | | | 171 | | | 196 | | | 245 | | |
| | | NC | <20 | | | | | | | | | 20 | | | | | | | | |
| | | Throw (ft.) | 3 | 4 | 8 | 4 | 5 | 9 | 4 | 6 | 12 | 6 | 8 | 13 | 7 | 9 | 15 | 8 | 10 | 17 |
| 10×10-10 | 0.406 | CFM | 163 | | | 203 | | | 244 | | | 284 | | | 325 | | | 406 | | |
| | | NC | <20 | | | | | | | | | 20 | | | | | | | | |
| | | Throw (ft.) | 4 | 6 | 12 | 6 | 8 | 14 | 7 | 9 | 16 | 8 | 11 | 17 | 9 | 12 | 19 | 10 | 14 | 22 |
| 12×12-12 | 0.608 | CFM | 243 | | | 304 | | | 365 | | | 426 | | | 487 | | | 608 | | |
| | | NC | <20 | | | | | | | | | 20 | | | | | | | | |
| | | Throw (ft.) | 6 | 8 | 16 | 8 | 11 | 17 | 10 | 13 | 19 | 12 | 15 | 21 | 12 | 16 | 24 | 14 | 18 | 26 |
| 14×14-14 | 0.851 | CFM | 341 | | | 426 | | | 511 | | | 596 | | | 681 | | | 851 | | |
| | | NC | <20 | | | | | | | | | 20 | | | | | | | | |
| | | Throw (ft.) | 8 | 10 | 18 | 11 | 14 | 20 | 14 | 17 | 23 | 15 | 18 | 26 | 16 | 19 | 29 | 17 | 21 | 30 |
| 16×16-16 | 1.135 | CFM | 454 | | | 567 | | | 681 | | | 794 | | | 908 | | | 1135 | | |
| | | NC | <20 | | | | | | | | | 20 | | | | | | | | |
| | | Throw (ft.) | 10 | 13 | 21 | 13 | 16 | 24 | 15 | 18 | 28 | 16 | 19 | 29 | 17 | 21 | 32 | 19 | 23 | 35 |
| 18×18-18 | 1.459 | CFM | 584 | | | 729 | | | 875 | | | 1021 | | | 1167 | | | 1459 | | |
| | | NC | 20 | | | | | | | | | 25 | | | | | | | | |
| | | Throw (ft.) | 11 | 15 | 25 | 15 | 18 | 28 | 17 | 20 | 32 | 18 | 22 | 34 | 20 | 24 | 36 | 21 | 25 | 39 |
| 20×20-20 | 1.823 | CFM | 729 | | | 912 | | | 1094 | | | 1276 | | | 1459 | | | 1823 | | |
| | | NC | 20 | | | | | | | | | 25 | | | | | | | | |
| | | Throw (ft.) | 13 | 18 | 28 | 16 | 20 | 30 | 19 | 23 | 35 | 21 | 25 | 39 | 22 | 26 | 41 | 23 | 28 | 44 |

Performance Notes:

- 1 For square neck multiply CFM × 1.21
- 2 Additional performance data for sizes not listed is available at www.shoemakermfg.com
- 3 Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 4 Throw data is based on supply air and room air both at isothermal conditions
- 5 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
- 6 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

| | | | |
|---|---|---|---|
| Throw factors for core configuration: (Throw × Throw Factor) |  1. 1.00 throw factor |  2. 1.40 throw factor |  3. 2.00 throw factor |
|---|---|---|---|



Performance Data: 700CB Series (40A Air Pattern)

| Neck Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | 400 | | 500 | | | 600 | | | 700 | | | 800 | | | 1000 | | | |
|-----------|-----------------------------------|---------------------|----------------|-----|-----|-------|------|------|-------|-----|------|-------------|------|------|-------|------|------|-------|-----|------|
| | | | Total Pressure | | | CFM | | | NC | | | Throw (ft.) | | | CFM | | | NC | | |
| | | | 0.038 | | | 0.049 | | | 0.066 | | | 0.092 | | | 0.114 | | | 0.180 | | |
| 6×6-6 | 0.123 | | 49 | | | 61 | | | 74 | | | 86 | | | 98 | | | 123 | | |
| | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | |
| | | Throw (ft.) | 2 | 2.5 | 3.5 | 2 | 3 | 4 | 3 | 3.5 | 4.5 | 3 | 4 | 6 | 4 | 5 | 7 | 5 | 6 | 10 |
| 8×8-8 | 0.239 | | 95 | | | 119 | | | 143 | | | 167 | | | 191 | | | 239 | | |
| | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | |
| | | Throw (ft.) | 2 | 3 | 4 | 3 | 3.5 | 4.5 | 4 | 5 | 7 | 5 | 6 | 8 | 5 | 6.5 | 10 | 6 | 8 | 13 |
| 10×10-10 | 0.392 | | 157 | | | 196 | | | 235 | | | 275 | | | 314 | | | 392 | | |
| | | | <20 | | | <20 | | | 20 | | | 20-25 | | | 25 | | | 25-30 | | |
| | | Throw (ft.) | 3 | 3.5 | 4.5 | 3 | 4 | 6 | 5 | 5.5 | 8.5 | 6 | 6.5 | 9.5 | 6 | 7 | 11 | 7 | 9.5 | 14.5 |
| 12×12-12 | 0.584 | | 234 | | | 292 | | | 350 | | | 409 | | | 467 | | | 584 | | |
| | | | <20 | | | <20 | | | 20 | | | 20-25 | | | 25 | | | 25-30 | | |
| | | Throw (ft.) | 3 | 4 | 6 | 4 | 5 | 7 | 6 | 7 | 10 | 7 | 8 | 10.5 | 7 | 9 | 13 | 9 | 12 | 18 |
| 14×14-14 | 0.814 | | 325 | | | 407 | | | 488 | | | 569 | | | 651 | | | 814 | | |
| | | | <20 | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | |
| | | Throw (ft.) | 4 | 5 | 7 | 5 | 6 | 8 | 7 | 8 | 11 | 8 | 9 | 13 | 8 | 10 | 15 | 11 | 14 | 20 |
| 16×16-16 | 1.081 | | 432 | | | 540 | | | 649 | | | 757 | | | 865 | | | 1081 | | |
| | | | <20 | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | |
| | | Throw (ft.) | 5 | 7 | 9 | 6 | 7.0 | 10 | 8 | 9.5 | 12.5 | 9 | 11 | 15 | 10 | 12 | 18 | 13 | 15 | 23 |
| 18×18-18 | 1.386 | | 555 | | | 693 | | | 832 | | | 970 | | | 1109 | | | 1386 | | |
| | | | <20 | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | |
| | | Throw (ft.) | 6 | 7 | 10 | 8 | 10 | 12 | 9 | 11 | 15 | 11 | 13 | 17 | 12 | 13.5 | 21 | 14 | 18 | 26 |
| 20×20-20 | 1.730 | | 692 | | | 865 | | | 1038 | | | 1211 | | | 1384 | | | 1730 | | |
| | | | <20 | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | |
| | | Throw (ft.) | 9 | 10 | 12 | 10 | 11.5 | 14.5 | 10 | 12 | 16 | 12 | 14.5 | 20 | 13 | 15 | 23 | 15 | 19 | 29 |

Performance Notes:

- 1 For square neck multiply CFM × 1.21
- 2 Additional performance data for sizes not listed is available at www.shoemakermfg.com
- 3 Throw values are measured in feet for terminal velocities of 150/100/50 FPM

- 4 Throw data is based on supply air and room air both at isothermal conditions
- 5 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air

- 6 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

Performance Data: 700DVD Series (4S Air Pattern)

| Neck Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | 400 | | 500 | | | 600 | | | 700 | | | 800 | | | 1000 | | | |
|-----------|-----------------------------------|---------------------|----------------|------|------|-------|------|------|-------|------|-----|-------------|----|-----|-------|------|------|-------|----|----|
| | | | Total Pressure | | | CFM | | | NC | | | Throw (ft.) | | | CFM | | | NC | | |
| 6×6-6 | 0.122 | | 0.052 | | | 0.108 | | | 0.136 | | | 0.181 | | | 0.223 | | | 0.325 | | |
| | | | 49 | | | 61 | | | 73 | | | 85 | | | 98 | | | 122 | | |
| | | | <20 | | | <20 | | | 20 | | | 20 | | | 25 | | | 25 | | |
| | | | 4 | 6 | 8 | 5 | 7 | 9 | 6 | 8 | 10 | 7 | 9 | 11 | 8 | 10 | 14 | 8 | 11 | 15 |
| 8×8-8 | 0.230 | | 92 | | | 115 | | | 138 | | | 161 | | | 184 | | | 230 | | |
| | | | <20 | | | <20 | | | 20 | | | 20 | | | 25 | | | 25 | | |
| | | | 5 | 7 | 9 | 6 | 8 | 10 | 7 | 9 | 11 | 8 | 10 | 13 | 9 | 11.5 | 16 | 10 | 13 | 17 |
| | | | 149 | | | 186 | | | 223 | | | 260 | | | 297 | | | 371 | | |
| 10×10-10 | 0.371 | | <20 | | | <20 | | | 20 | | | 20-25 | | | 25 | | | 25-30 | | |
| | | | 6 | 8 | 10 | 7 | 9 | 13 | 8 | 10 | 14 | 10 | 12 | 16 | 11 | 13 | 17 | 12 | 15 | 19 |
| | | | 219 | | | 273 | | | 328 | | | 383 | | | 437 | | | 547 | | |
| | | | <20 | | | <20 | | | 20 | | | 20-25 | | | 25 | | | 25-30 | | |
| 12×12-12 | 0.547 | | 7 | 9 | 11 | 8 | 10 | 12 | 9 | 11 | 15 | 11 | 13 | 17 | 12 | 14 | 18 | 13 | 16 | 21 |
| | | | 302 | | | 378 | | | 453 | | | 529 | | | 605 | | | 756 | | |
| | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | | 30-35 | | |
| | | | 400 | | | 499 | | | 599 | | | 699 | | | 799 | | | 999 | | |
| 14×14-14 | 0.756 | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | | 30-35 | | |
| | | | 8 | 10 | 12 | 10 | 11.5 | 14.5 | 10 | 12.5 | 17 | 12 | 14 | 18 | 13 | 15 | 20 | 14 | 17 | 23 |
| | | | 400 | | | 499 | | | 599 | | | 699 | | | 799 | | | 999 | | |
| | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | | 30-35 | | |
| 16×16-16 | 0.999 | | 9 | 11.5 | 14.5 | 11 | 13.5 | 17 | 12 | 16 | 20 | 13 | 17 | 23 | 14 | 18 | 24 | 15 | 19 | 27 |
| | | | 510 | | | 638 | | | 765 | | | 893 | | | 1020 | | | 1275 | | |
| | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | | 30-35 | | |
| | | | 400 | | | 499 | | | 599 | | | 699 | | | 799 | | | 999 | | |
| 18×18-18 | 1.275 | | 510 | | | 638 | | | 765 | | | 893 | | | 1020 | | | 1275 | | |
| | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | | 30-35 | | |
| | | | 11 | 13 | 16 | 12 | 15 | 19 | 14 | 17 | 20 | 15 | 18 | 24 | 16 | 20 | 27 | 16 | 21 | 30 |
| | | | 634 | | | 793 | | | 952 | | | 1110 | | | 1269 | | | 1586 | | |
| 20×20-20 | 1.586 | | <20 | | | 20 | | | 25-30 | | | 30-35 | | | 35-40 | | | 40-45 | | |
| | | | 634 | | | 793 | | | 952 | | | 1110 | | | 1269 | | | 1586 | | |
| | | | 13 | 16 | 20 | 14 | 17 | 21 | 15 | 19 | 25 | 17 | 20 | 28 | 18 | 22 | 30 | 18 | 22 | 32 |

Performance Notes:

- 1 For square neck multiply CFM × 1.21
- 2 Additional performance data for sizes not listed is available at www.shoemakermfng.com
- 3 Throw values are measured in feet for terminal velocities of 150/100/50 FPM

- 4 Throw data is based on supply air and room air both at isothermal conditions
- 5 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air

- 6 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006



Field Adjustable



High Capacity



MRI Compatible



Expedited Service

LOUVERED T-BAR DIFFUSERS



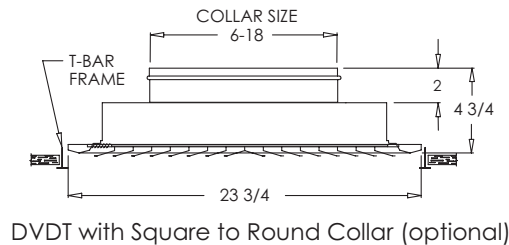
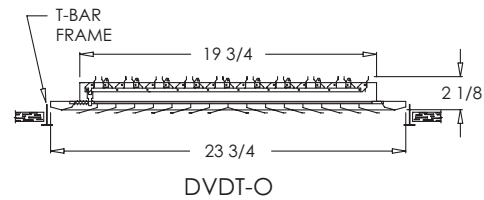
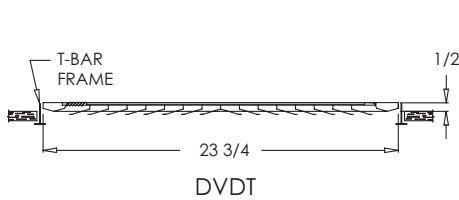
DVD-T Series Directional Volume Diffuser T-Bar

Standard Features:

- Directional volume diffuser with 4-way removeable core
- Designed to handle high volumes of air with horizontal flow
- Five air patterns available
- Square collar designed for 20" × 20" duct
- Rust resistant pre-coat with durable powder finish
- Soft White

Options:

- Recessed screwdriver operated Opposed Blade Damper
MODEL: DVDT-O
- 2" ADC compliant round collar with bead for ease of installation



Air Patterns:

| DVD-T-1S | DVD-T-2S | DVD-T-2SC | DVD-T-3S | DVD-T-4S |
|----------------------------|------------------------------|------------------------------|------------------------------|----------------------------|
| | | | | |
| Throw Factor: Throw × 2 | Throw Factor: Throw × 1.4 | Throw Factor: Throw × 1.4 | Throw Factor: Throw × 1.2 | Throw Factor: Throw × 1 |

Performance Data: DVD-T Series

| Neck Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | 400 | | 500 | | 600 | | 700 | | 800 | | 1000 | |
|-----------|-----------------------------------|---------------------|----------------|----------|----------------|----------|----------------|----------|----------------|------|----------------|------|----------------|------|
| | | | Total Pressure | CFM | Total Pressure | CFM | Total Pressure | CFM | Total Pressure | CFM | Total Pressure | CFM | Total Pressure | CFM |
| 20 × 20 | 2.475 | | 0.068 | 990 | 0.108 | 1237 | 0.155 | 1485 | 0.220 | 1732 | 0.285 | 1980 | 0.438 | 2475 |
| | | NC | <20 | 20 | 25 | 25-30 | 30 | 30-35 | | | | | | |
| | | Throw (ft.) | 16 18 21 | 17 19 23 | 19 21 27 | 20 22 30 | 21 24 32 | 22 25 34 | | | | | | |

Performance Notes:

1 Throw values are measured in feet for terminal velocities of 150/100/50 FPM
 2 Throw data is based on supply air and room air both at isothermal conditions

3 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air

4 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

Performance Data: 780 Series

| Neck Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | 400 | | 500 | | | 600 | | | 700 | | | 800 | | | 1000 | | | |
|-----------|-----------------------------------|---------------------|----------------|----|-----|-------|----|-----|-------|----|-----|-------------|----|-----|-------|----|------|-------|----|----|
| | | | Total Pressure | | | CFM | | | NC | | | Throw (ft.) | | | CFM | | | NC | | |
| | | | 0.038 | | | 0.062 | | | 0.090 | | | 0.122 | | | 0.168 | | | 0.235 | | |
| 6" | 0.195 | | 78 | | | 98 | | | 117 | | | 137 | | | 156 | | | 195 | | |
| | | | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | |
| | | Throw (ft.) | 2 | 3 | 6 | 3 | 4 | 8 | 4 | 5 | 9 | 5 | 6 | 10 | 5 | 7 | 12 | 7 | 10 | 15 |
| 8" | 0.347 | | 139 | | | 173 | | | 208 | | | 243 | | | 277 | | | 347 | | |
| | | | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | |
| | | Throw (ft.) | 3 | 5 | 7 | 4 | 5 | 9 | 5 | 6 | 10 | 6 | 8 | 12 | 6 | 8 | 13 | 8 | 12 | 16 |
| 10" | 0.542 | | 217 | | | 271 | | | 325 | | | 379 | | | 433 | | | 542 | | |
| | | | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 25 | | |
| | | Throw (ft.) | 4 | 6 | 8 | 5 | 7 | 10 | 6 | 8 | 12 | 7 | 10 | 16 | 8 | 10 | 16 | 10 | 14 | 18 |
| 12" | 0.780 | | 312 | | | 390 | | | 468 | | | 546 | | | 624 | | | 780 | | |
| | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | |
| | | Throw (ft.) | 5 | 7 | 14 | 7 | 9 | 15 | 8 | 10 | 17 | 9 | 11 | 19 | 11 | 13 | 20 | 12 | 15 | 23 |
| 14" | 1.062 | | 425 | | | 531 | | | 637 | | | 743 | | | 849 | | | 1062 | | |
| | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 25-30 | | |
| | | Throw (ft.) | 6 | 9 | 15 | 9 | 12 | 18 | 10 | 13 | 20 | 11 | 14 | 22 | 13 | 16 | 24 | 14 | 18 | 28 |
| 16" | 1.387 | | 555 | | | 693 | | | 832 | | | 971 | | | 1109 | | | 1387 | | |
| | | | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | | 25-30 | | |
| | | Throw (ft.) | 8 | 11 | 17 | 11 | 14 | 20 | 12 | 14 | 23 | 13 | 16 | 26 | 15 | 19 | 28 | 17 | 22 | 32 |

Performance Notes:

1 For square neck multiply CFM × 1.21
 2 Additional performance data for sizes not listed is available at www.shoemakerfmg.com

3 Throw values are measured in feet for terminal velocities of 150/100/50 FPM
 4 Throw data is based on supply air and room air both at isothermal conditions

5 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006



Field Adjustable



High Capacity



MRI Compatible



Expedited Service

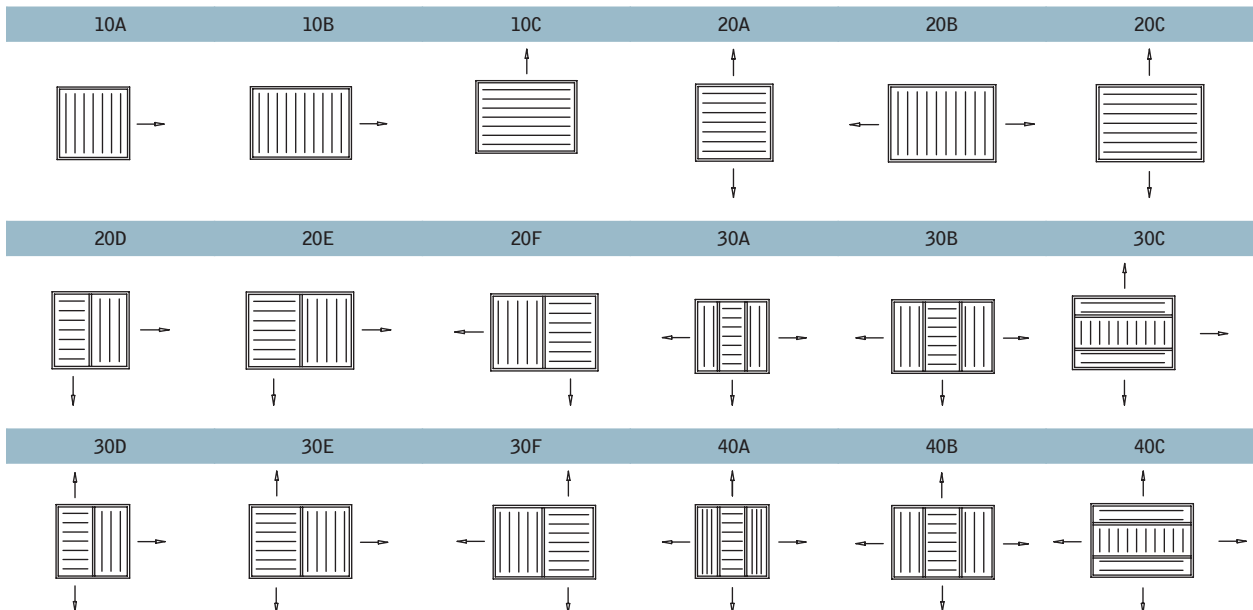
Performance Data: CB10 & CB20 Series

| Duct Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | | 400 | | 500 | | 600 | | 700 | | 800 | | 1000 | | | | | | |
|-----------|-----------------------------------|---------------------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|------|-----|----|----|----|----|-----|
| | | Total Pressure | CFM | NC | CFM | NC | CFM | NC | CFM | NC | CFM | NC | CFM | NC | CFM | NC | | | | |
| 6×6 | 0.176 | Total Pressure | 0.038 | 0.108 | 0.155 | 0.206 | 0.252 | 0.379 | | | | | | | | | | | | |
| | | CFM | 70 | 88 | 105 | 123 | 141 | 176 | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | <20 | 20 | 20 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 5 | 6 | 9 | 5 | 7 | 11 | 7 | 9 | 13 | 9 | 11 | 16 | 10 | 13 | 19 | 12 | 16 | 21 |
| 8×8 | 0.326 | 1-Way Throw (ft.) | 4 | 6 | 11 | 6 | 8 | 13 | 9 | 11 | 16 | 10 | 13 | 19 | 13 | 16 | 22 | 15 | 19 | 25 |
| | | CFM | 130 | 163 | 195 | 228 | 261 | 326 | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | <20 | 20 | 25 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 5 | 7 | 12 | 7 | 9 | 14 | 9 | 12 | 17 | 11 | 14 | 21 | 14 | 17 | 24 | 16 | 21 | 28 |
| 10×10 | 0.521 | 1-Way Throw (ft.) | 6 | 8 | 14 | 9 | 11 | 16 | 11 | 14 | 20 | 13 | 16 | 24 | 16 | 20 | 28 | 19 | 24 | 32 |
| | | CFM | 209 | 261 | 313 | 365 | 417 | 521 | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 20-25 | 25 | 25-30 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 7 | 9 | 15 | 9 | 12 | 18 | 12 | 15 | 23 | 15 | 18 | 27 | 18 | 23 | 31 | 21 | 27 | 36 |
| 12×12 | 0.763 | 1-Way Throw (ft.) | 8 | 11 | 18 | 11 | 14 | 21 | 14 | 18 | 26 | 17 | 21 | 31 | 20 | 26 | 37 | 24 | 31 | 42 |
| | | CFM | 305 | 382 | 458 | 534 | 611 | 763 | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 20-25 | 25 | 25-30 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 9 | 12 | 20 | 12 | 16 | 23 | 16 | 20 | 29 | 18 | 23 | 35 | 22 | 29 | 41 | 27 | 35 | 47 |
| 14×14 | 1.051 | 1-Way Throw (ft.) | 11 | 14 | 23 | 13 | 18 | 27 | 18 | 23 | 34 | 21 | 27 | 41 | 26 | 34 | 48 | 32 | 41 | 54 |
| | | CFM | 420 | 525 | 630 | 736 | 841 | 1051 | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 25-30 | 30 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 10 | 13 | 22 | 13 | 18 | 27 | 17 | 22 | 33 | 21 | 27 | 40 | 25 | 33 | 46 | 31 | 40 | 53 |
| 16×16 | 1.384 | 1-Way Throw (ft.) | 12 | 16 | 26 | 16 | 21 | 31 | 21 | 26 | 39 | 24 | 31 | 46 | 30 | 39 | 54 | 35 | 46 | 62 |
| | | CFM | 554 | 692 | 830 | 969 | 1107 | 1384 | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 25-30 | 30 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 11 | 15 | 25 | 15 | 20 | 30 | 20 | 25 | 38 | 23 | 30 | 45 | 29 | 38 | 53 | 35 | 45 | 60 |
| 18×18 | 1.763 | 1-Way Throw (ft.) | 13 | 18 | 29 | 18 | 24 | 35 | 23 | 29 | 44 | 27 | 35 | 53 | 34 | 44 | 62 | 41 | 53 | 70 |
| | | CFM | 705 | 882 | 1058 | 1234 | 1411 | 1763 | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 25-30 | 30 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 13 | 17 | 29 | 17 | 23 | 34 | 23 | 29 | 43 | 26 | 34 | 52 | 33 | 43 | 60 | 40 | 52 | 69 |
| 20×20 | 2.189 | 1-Way Throw (ft.) | 14 | 20 | 34 | 21 | 27 | 40 | 28 | 34 | 50 | 31 | 40 | 60 | 40 | 50 | 70 | 47 | 60 | 80 |
| | | CFM | 875 | 1094 | 1313 | 1532 | 1751 | 2189 | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 25-30 | 30 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 14 | 20 | 33 | 20 | 26 | 39 | 27 | 33 | 49 | 30 | 39 | 59 | 39 | 49 | 68 | 46 | 59 | 78 |
| 24×24 | 3.177 | 1-Way Throw (ft.) | 16 | 23 | 38 | 25 | 31 | 46 | 30 | 38 | 57 | 36 | 46 | 68 | 45 | 57 | 80 | 53 | 68 | 91 |
| | | CFM | 1271 | 1588 | 1906 | 2224 | 2541 | 3177 | | | | | | | | | | | | |
| | | NC | <20 | <20 | 25 | 25-30 | 30 | 30-35 | | | | | | | | | | | | |
| | | 2-Way Throw (ft.) | 16 | 22 | 37 | 24 | 30 | 45 | 29 | 37 | 56 | 35 | 45 | 67 | 44 | 56 | 78 | 52 | 67 | 89 |
| 24×24 | 3.177 | 1-Way Throw (ft.) | 18 | 26 | 43 | 28 | 35 | 52 | 34 | 43 | 65 | 40 | 52 | 78 | 51 | 65 | 91 | 61 | 78 | 104 |

Performance Notes:

- Additional performance data for sizes not listed is available at www.shoemakerfmg.com
- Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- Throw data is based on supply air and room air both at isothermal conditions
- Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
- Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

Air Patterns:



Performance Data: CB30 & CB40 Series

| Duct Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | | 400 | | 500 | | 600 | | 700 | | 800 | | 1000 | | | | | | |
|-----------|-----------------------------------|---------------------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
| | | Total Pressure | CFM | 0.038 | | 0.108 | | 0.155 | | 0.206 | | 0.252 | | 0.379 | | | | | | |
| 6x6 | 0.149 | CFM | 59 | | 74 | | 89 | | 104 | | 119 | | 149 | | | | | | | |
| | | NC | <20 | | <20 | | <20 | | <20 | | 20 | | 20 | | | | | | | |
| | | 4-Way Throw (ft.) | 3 | 4 | 7 | 4 | 5 | 8 | 6 | 7 | 10 | 6 | 8 | 12 | 8 | 10 | 14 | 9 | 12 | 16 |
| | | 3-Way Throw (ft.) | 4 | 5 | 8 | 5 | 6 | 9 | 6 | 8 | 12 | 7 | 9 | 14 | 9 | 12 | 16 | 11 | 14 | 18 |
| | | | 116 | | 144 | | 173 | | 202 | | 231 | | 289 | | | | | | | |
| 8x8 | 0.289 | CFM | 116 | | 144 | | 173 | | 202 | | 231 | | 289 | | | | | | | |
| | | NC | <20 | | <20 | | <20 | | <20 | | 20 | | 25 | | | | | | | |
| | | 4-Way Throw (ft.) | 4 | 5 | 9 | 5 | 7 | 10 | 7 | 9 | 13 | 8 | 10 | 15 | 10 | 13 | 18 | 12 | 15 | 20 |
| | | 3-Way Throw (ft.) | 4 | 6 | 10 | 6 | 8 | 12 | 8 | 10 | 15 | 10 | 12 | 18 | 12 | 15 | 21 | 14 | 18 | 24 |
| | | | 190 | | 237 | | 285 | | 332 | | 380 | | 475 | | | | | | | |
| 10x10 | 0.475 | CFM | 190 | | 237 | | 285 | | 332 | | 380 | | 475 | | | | | | | |
| | | NC | <20 | | <20 | | 20 | | 20-25 | | 25 | | 25-30 | | | | | | | |
| | | 4-Way Throw (ft.) | 6 | 7 | 11 | 7 | 9 | 13 | 9 | 11 | 17 | 10 | 13 | 20 | 14 | 17 | 23 | 15 | 20 | 26 |
| | | 3-Way Throw (ft.) | 6 | 8 | 13 | 8 | 10 | 16 | 10 | 13 | 19 | 13 | 16 | 23 | 15 | 19 | 27 | 18 | 23 | 31 |
| | | | 283 | | 353 | | 424 | | 495 | | 565 | | 707 | | | | | | | |
| 12x12 | 0.707 | CFM | 283 | | 353 | | 424 | | 495 | | 565 | | 707 | | | | | | | |
| | | NC | <20 | | <20 | | 20 | | 20-25 | | 25 | | 25-30 | | | | | | | |
| | | 4-Way Throw (ft.) | 7 | 9 | 14 | 9 | 12 | 17 | 11 | 14 | 22 | 14 | 17 | 26 | 17 | 22 | 30 | 20 | 26 | 34 |
| | | 3-Way Throw (ft.) | 8 | 10 | 17 | 10 | 13 | 20 | 13 | 17 | 25 | 16 | 20 | 30 | 19 | 25 | 35 | 23 | 30 | 40 |
| | | | 394 | | 492 | | 591 | | 689 | | 787 | | 984 | | | | | | | |
| 14x14 | 0.984 | CFM | 394 | | 492 | | 591 | | 689 | | 787 | | 984 | | | | | | | |
| | | NC | <20 | | <20 | | 20 | | 25 | | 25-30 | | 30 | | | | | | | |
| | | 4-Way Throw (ft.) | 8 | 10 | 16 | 10 | 13 | 20 | 12 | 16 | 24 | 16 | 20 | 29 | 19 | 24 | 34 | 22 | 29 | 39 |
| | | 3-Way Throw (ft.) | 9 | 12 | 19 | 11 | 15 | 23 | 15 | 19 | 29 | 18 | 23 | 34 | 22 | 29 | 40 | 26 | 34 | 45 |
| | | | 523 | | 654 | | 785 | | 916 | | 1046 | | 1308 | | | | | | | |
| 16x16 | 1.308 | CFM | 523 | | 654 | | 785 | | 916 | | 1046 | | 1308 | | | | | | | |
| | | NC | <20 | | <20 | | 20 | | 25 | | 25-30 | | 30 | | | | | | | |
| | | 4-Way Throw (ft.) | 8 | 11 | 19 | 11 | 15 | 22 | 15 | 19 | 28 | 17 | 22 | 33 | 21 | 28 | 39 | 25 | 33 | 44 |
| | | 3-Way Throw (ft.) | 10 | 13 | 22 | 13 | 17 | 26 | 17 | 22 | 32 | 20 | 26 | 39 | 24 | 32 | 45 | 30 | 39 | 52 |
| | | | 671 | | 839 | | 1006 | | 1174 | | 1342 | | 1677 | | | | | | | |
| 18x18 | 1.677 | CFM | 671 | | 839 | | 1006 | | 1174 | | 1342 | | 1677 | | | | | | | |
| | | NC | <20 | | <20 | | 20 | | 25 | | 25-30 | | 30 | | | | | | | |
| | | 4-Way Throw (ft.) | 10 | 13 | 21 | 13 | 17 | 25 | 16 | 21 | 32 | 20 | 25 | 38 | 24 | 32 | 44 | 29 | 38 | 51 |
| | | 3-Way Throw (ft.) | 11 | 15 | 25 | 15 | 20 | 30 | 20 | 25 | 37 | 23 | 30 | 44 | 28 | 37 | 52 | 34 | 44 | 59 |
| | | | 837 | | 1046 | | 1256 | | 1465 | | 1674 | | 2093 | | | | | | | |
| 20x20 | 2.093 | CFM | 837 | | 1046 | | 1256 | | 1465 | | 1674 | | 2093 | | | | | | | |
| | | NC | <20 | | <20 | | 20 | | 25 | | 25-30 | | 30 | | | | | | | |
| | | 4-Way Throw (ft.) | 11 | 15 | 24 | 14 | 19 | 29 | 19 | 24 | 36 | 22 | 29 | 43 | 27 | 36 | 50 | 33 | 43 | 58 |
| | | 3-Way Throw (ft.) | 13 | 17 | 28 | 17 | 23 | 34 | 22 | 28 | 42 | 26 | 34 | 50 | 33 | 42 | 59 | 39 | 50 | 67 |
| | | | 1224 | | 1531 | | 1837 | | 2143 | | 2449 | | 3061 | | | | | | | |
| 24x24 | 3.061 | CFM | 1224 | | 1531 | | 1837 | | 2143 | | 2449 | | 3061 | | | | | | | |
| | | NC | <20 | | 20 | | 25 | | 25-30 | | 30 | | 30-35 | | | | | | | |
| | | 4-Way Throw (ft.) | 13 | 17 | 27 | 17 | 22 | 33 | 21 | 27 | 41 | 25 | 33 | 49 | 32 | 41 | 57 | 38 | 49 | 65 |
| | | 3-Way Throw (ft.) | 14 | 19 | 32 | 20 | 26 | 38 | 26 | 32 | 48 | 29 | 38 | 57 | 38 | 48 | 67 | 44 | 57 | 76 |
| | | | 1224 | | 1531 | | 1837 | | 2143 | | 2449 | | 3061 | | | | | | | |

Performance Notes:

- 1 Additional performance data for sizes not listed is available at www.shoemakerfmg.com
- 2 Throw values are measured in feet for terminal velocities of 150/100/50 FPM

- 3 Throw data is based on supply air and room air both at isothermal conditions
- 4 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air

- 5 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

SD34 and SD52 Series Dimensions

| Diffuser Width | Dimension* | Pipe Diameter | | | | | | | | | | | |
|----------------|------------|---------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 22" | 24" | 26" | 28" | |
| 4" | A | 5 | 4 7/8 | 4 7/8 | 4 3/4 | 4 3/4 | 4 5/8 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | |
| | B | 7 1/8 | 7 3/8 | 7 1/2 | 7 5/8 | 7 3/4 | 7 7/8 | 7 7/8 | 7 7/8 | 7 7/8 | 7 7/8 | 7 7/8 | |
| 6" | A | n/a | 5 | 5 | 4 7/8 | 4 3/4 | 4 3/4 | 4 5/8 | 4 5/8 | 4 1/2 | 4 1/2 | 4 1/2 | |
| | B | n/a | 9 | 9 1/4 | 9 1/2 | 9 5/8 | 9 3/4 | 9 7/8 | 9 7/8 | 9 7/8 | 9 7/8 | 9 7/8 | |
| 8" | A | n/a | n/a | 5 1/8 | 5 | 4 7/8 | 4 3/4 | 4 3/4 | 4 5/8 | 4 5/8 | 4 5/8 | 4 1/2 | |
| | B | n/a | n/a | 10 7/8 | 11 1/4 | 11 3/8 | 11 5/8 | 11 3/4 | 11 7/8 | 11 7/8 | 11 7/8 | 11 7/8 | |
| 10" | A | n/a | n/a | n/a | 5 | 5 | 4 7/8 | 4 7/8 | 4 3/4 | 4 3/4 | 4 5/8 | 4 5/8 | |
| | B | n/a | n/a | n/a | 13 | 13 1/4 | 13 3/8 | 13 1/2 | 13 5/8 | 13 5/8 | 13 7/8 | 13 7/8 | |
| 12" | A | n/a | n/a | n/a | n/a | 5 1/8 | 5 | 4 7/8 | 4 7/8 | 4 7/8 | 4 3/4 | 4 5/8 | |
| | B | n/a | n/a | n/a | n/a | 14 7/8 | 15 1/8 | 15 3/8 | 15 1/2 | 15 1/2 | 15 5/8 | 15 7/8 | |

| Diffuser Width | Dimension* | Pipe Diameter | | | | | | | | | | | |
|----------------|------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | 30" | 32" | 34" | 36" | 38" | 40" | 42" | 44" | 46" | 48" | | |
| 4" | A | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 3/8 | 4 3/8 | 4 3/8 | 4 3/8 | 4 3/8 | 4 3/8 | |
| | B | 7 7/8 | 7 7/8 | 7 7/8 | 7 7/8 | 7 7/8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 6" | A | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 3/8 | 4 3/8 | 4 3/8 | 4 3/8 | 4 3/8 | |
| | B | 9 7/8 | 9 7/8 | 9 7/8 | 9 7/8 | 9 7/8 | 9 7/8 | 10 | 10 | 10 | 10 | 10 | |
| 8" | A | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 3/8 | 4 3/8 | 4 3/8 | 4 3/8 | |
| | B | 11 7/8 | 11 7/8 | 11 7/8 | 11 7/8 | 11 7/8 | 11 7/8 | 11 7/8 | 12 | 12 | 12 | 12 | |
| 10" | A | 4 5/8 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 3/8 | 4 3/8 | 4 3/8 | |
| | B | 13 7/8 | 13 7/8 | 13 7/8 | 13 7/8 | 13 7/8 | 13 7/8 | 13 7/8 | 13 7/8 | 14 | 14 | 14 | |
| 12" | A | 4 5/8 | 4 5/8 | 4 5/8 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | |
| | B | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | 15 7/8 | |

* A/B dimensions defined in product drawings are dependent on size of spiral pipe product is designed.

Performance Data: SD34 Series

| Duct Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | | | | | | | | | | | |
|-----------|-----------------------------------|---------------------|-----------------|--------------------|---------------------|-------------------|-------------------|-------|-------|-------|-------|--|--|
| | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | | | |
| | | Velocity Pressure | 0.004 | 0.008 | 0.013 | 0.018 | 0.025 | 0.033 | 0.051 | 0.074 | 0.100 | | |
| 14x4 | 0.271 | CFM | 81 | 108 | 136 | 163 | 190 | 217 | 271 | 325 | 380 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45 | | |
| | | Throw(ft.) | 5 6.5 7.5 7 | 8 10 10 11 13 | 11 12 16 13 14.5 20 | 14 16 22 16 19 29 | 19 22 34 22 26 40 | | | | | | |
| 10x6 | 0.299 | CFM | 90 | 120 | 150 | 180 | 210 | 240 | 299 | 359 | 419 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45 | | |
| | | Throw(ft.) | 5 6.5 7.5 7 | 8 10 10 11 13 | 11 12 16 13 14.5 20 | 14 16 22 16 19 29 | 19 22 34 22 26 40 | | | | | | |
| 12x6 | 0.362 | CFM | 109 | 145 | 181 | 217 | 254 | 290 | 362 | 435 | 507 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | |
| | | Throw(ft.) | 6 7 8 8 | 9 11 10 11.5 14 | 12 13 18 14 16 21 | 16 18 24 18 21 32 | 22 26 38 25 30 44 | | | | | | |
| 14x6 | 0.425 | CFM | 128 | 170 | 213 | 255 | 298 | 340 | 425 | 510 | 595 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | |
| | | Throw(ft.) | 6 7.5 9 9 | 10 12 11 11.5 14.5 | 12 13.5 19 14 16 22 | 17 19 25 19 22 33 | 22 26 39 25 30 45 | | | | | | |
| 16x6 | 0.488 | CFM | 146 | 195 | 244 | 293 | 342 | 391 | 488 | 586 | 684 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | |
| | | Throw (ft.) | 7 8 10 9 | 10 12 11 12.5 16 | 13 14.5 20 15 17 23 | 17 20 26 19 22 34 | 23 27 40 26 31 46 | | | | | | |
| 14x8 | 0.580 | CFM | 174 | 232 | 290 | 348 | 406 | 464 | 580 | 695 | 811 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | |
| | | Throw(ft.) | 7 8 10 9 | 10.5 12.5 12 13 17 | 13 15 21 16 18 24 | 18 21 28 20 23 36 | 24 28 43 28 33 49 | | | | | | |
| 16x8 | 0.665 | CFM | 200 | 266 | 333 | 399 | 466 | 532 | 665 | 798 | 931 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35-40 | 40-45 | >50 | | |
| | | Throw (ft.) | 8 8.5 10.5 10 | 11 13.5 13 14.5 18 | 14 16 22 17 19 26 | 18 21 29 21 25 38 | 25 30 45 30 35 52 | | | | | | |
| 18x8 | 0.751 | CFM | 225 | 300 | 376 | 451 | 526 | 601 | 751 | 901 | 1051 | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35-40 | 40-45 | >50 | | |
| | | Throw (ft.) | 8 9 11 10 | 11.5 14.5 14 16 19 | 15 17 23 17 20 27 | 19 22 30 22 26 40 | 27 32 48 31 37 55 | | | | | | |
| 20x10 | 1.059 | CFM | 318 | 424 | 530 | 636 | 742 | 848 | 1059 | 1271 | 1483 | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >50 | | |
| | | Throw(ft.) | 10 11.5 14.5 14 | 16 20 17 20 24 | 19 22 30 22 26 37 | 25 30 40 29 35 53 | 35 42 62 40 49 73 | | | | | | |
| 20x12 | 1.277 | CFM | 383 | 511 | 638 | 766 | 894 | 1021 | 1277 | 1532 | 1787 | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >55 | | |
| | | Throw (ft.) | 11 12.5 15.5 16 | 18 22 19 22 25 | 21 24 34 24 29 40 | 28 33 45 32 38 58 | 39 46 69 46 56 80 | | | | | | |
| 24x12 | 1.545 | CFM | 463 | 618 | 772 | 927 | 1081 | 1236 | 1545 | 1854 | 2163 | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >55 | | |
| | | Throw(ft.) | 13 14.5 18 17 | 19 23 20 23 28 | 23 27 37 27 32 43 | 30 36 48 35 42 64 | 40 50 76 48 59 89 | | | | | | |
| 30x10 | 1.602 | CFM | 481 | 641 | 801 | 961 | 1122 | 1282 | 1602 | 1923 | 2243 | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >55 | | |
| | | Throw (ft.) | 13 15 19 18 | 20 24 21 24 29 | 24 28 38 28 33 44 | 31 38 49 36 43 65 | 41 51 78 49 60 91 | | | | | | |

Performance Notes:

1 Performance data calculated with blades set at 0°
 2 Additional performance data for sizes not listed is available at www.shoemakerfmg.com

3 Throw values are measured in feet for terminal velocities of 150/100/50 FPM
 4 Throw data is based on supply air and room air both at isothermal conditions

5 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
 6 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

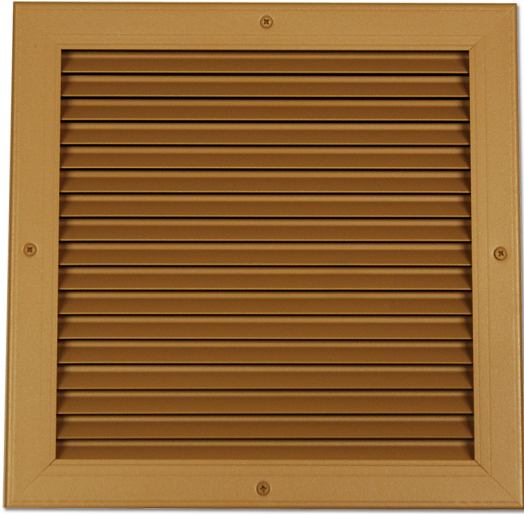
Performance Data: SD52 Series

| Duct Size | Core Eff. Area (ft ²) | Neck Velocity (FPM) | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-----------------------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|------|----|----|------|----|----|----|----|----|----|----|----|----|----|----|
| | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | | | | | | | | | | | | | | | | | |
| | | Velocity Pressure | 0.004 | 0.008 | 0.013 | 0.018 | 0.025 | 0.033 | 0.051 | 0.074 | 0.100 | | | | | | | | | | | | | | | | |
| 14x4 | 0.298 | CFM | 89 | 119 | 149 | 179 | 208 | 238 | 298 | 357 | 417 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 5 | 6 | 7 | 6 | 7.5 | 9.5 | 9 | 10 | 12 | 10 | 11 | 15 | 12 | 14 | 19 | 13 | 15 | 20 | 16 | 18 | 27 | 18 | 21 | 33 | 21 |
| 10x6 | 0.329 | CFM | 99 | 132 | 165 | 198 | 231 | 264 | 329 | 395 | 461 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 5 | 6.5 | 7.5 | 7 | 8 | 10 | 10 | 11 | 13 | 11 | 12 | 16 | 13 | 14.5 | 20 | 14 | 16 | 22 | 17 | 19 | 29 | 19 | 22 | 34 | 22 |
| 12x6 | 0.399 | CFM | 120 | 159 | 199 | 239 | 279 | 319 | 399 | 478 | 558 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 6 | 7 | 9 | 9 | 10 | 12 | 10 | 11.5 | 14.5 | 12 | 13.5 | 18 | 14 | 16 | 22 | 16 | 18 | 24 | 19 | 22 | 32 | 22 | 26 | 38 | 25 |
| 14x6 | 0.468 | CFM | 140 | 187 | 234 | 281 | 328 | 374 | 468 | 561 | 655 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 7 | 8 | 10 | 10 | 11 | 13 | 11 | 13 | 16 | 14 | 16 | 21 | 15 | 17 | 23 | 18 | 20 | 27 | 20 | 23 | 35 | 24 | 28 | 42 | 27 |
| 16x6 | 0.537 | CFM | 161 | 215 | 269 | 322 | 376 | 430 | 537 | 645 | 752 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 8 | 8.5 | 11 | 10 | 11.5 | 13.5 | 12 | 13.5 | 17 | 14 | 16 | 22 | 16 | 18 | 25 | 18 | 20 | 28 | 21 | 24 | 36 | 25 | 29 | 45 | 28 |
| 14x8 | 0.638 | CFM | 191 | 255 | 319 | 383 | 447 | 510 | 638 | 766 | 893 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35 | 40 | 45-50 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 8 | 9 | 11.5 | 11 | 13 | 16 | 4 | 16 | 19 | 16 | 18 | 24 | 19 | 21 | 28 | 20 | 23 | 31 | 23 | 27 | 39 | 27 | 32 | 48 | 30 |
| 16x8 | 0.732 | CFM | 220 | 293 | 366 | 439 | 513 | 586 | 732 | 879 | 1025 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | <20 | 20 | 25 | 30 | 35-40 | 40-50 | >50 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 9 | 10 | 12.5 | 12 | 14 | 17 | 15 | 17 | 20 | 17 | 19 | 25 | 20 | 23 | 30 | 22 | 25 | 33 | 25 | 29 | 41 | 29 | 35 | 51 | 32 |
| 20x10 | 1.167 | CFM | 350 | 467 | 583 | 700 | 817 | 934 | 1167 | 1400 | 1634 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >50 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 10 | 11.5 | 14.5 | 14 | 16 | 20 | 18 | 20 | 24 | 19 | 22 | 30 | 23 | 26 | 37 | 25 | 30 | 40 | 29 | 35 | 53 | 34 | 42 | 62 | 40 |
| 20x12 | 1.413 | CFM | 424 | 565 | 706 | 848 | 989 | 1130 | 1413 | 1695 | 1978 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >55 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 11 | 12.5 | 16 | 15 | 18 | 22 | 19 | 22 | 25 | 21 | 24 | 34 | 25 | 29 | 40 | 27 | 33 | 45 | 31 | 38 | 58 | 37 | 46 | 69 | 45 |
| 24x12 | 1.702 | CFM | 511 | 681 | 851 | 1021 | 1191 | 1362 | 1702 | 2042 | 2383 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >50 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 13 | 15 | 18 | 17 | 19 | 23 | 20 | 23 | 28 | 23 | 27 | 37 | 27 | 32 | 43 | 29 | 36 | 48 | 34 | 42 | 64 | 41 | 50 | 76 | 48 |
| 30x10 | 1.765 | CFM | 529 | 706 | 882 | 1059 | 1235 | 1412 | 1765 | 2118 | 2471 | | | | | | | | | | | | | | | | |
| | | NC | <20 | <20 | 20 | 25 | 30 | 30-35 | 35-40 | 40-45 | >55 | | | | | | | | | | | | | | | | |
| | | Throw (ft.) | 13 | 15 | 19 | 18 | 20 | 24 | 21 | 24 | 29 | 24 | 28 | 38 | 28 | 33 | 44 | 30 | 38 | 49 | 35 | 43 | 65 | 42 | 51 | 78 | 49 |

Performance Notes:

- 1 Performance data calculated with blades set at 0°
- 2 Additional performance data for sizes not listed is available at www.shoemakerfmg.com
- 3 Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 4 Throw data is based on supply air and room air both at isothermal conditions
- 5 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
- 6 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

DOOR GRILLE



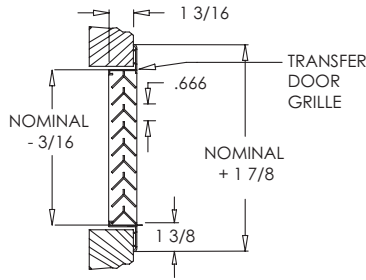
4000 Series Aluminum Transfer Door Grille

Standard Features:

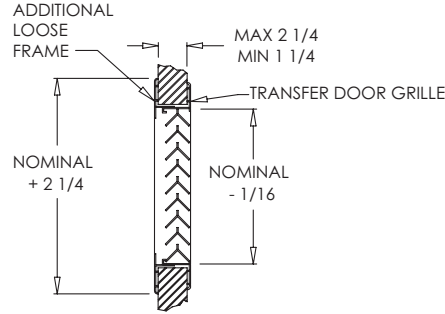
- Extruded aluminum transfer door grille, single frame with signature line marks
- Designed for high air capacities
- Designed to minimize vision through grille
- Accommodates door thicknesses ranging from 1 1/4" to 2 1/4"
- Countersunk mounting holes for flush appearance with color matching Phillips posi-drive screws
- Rust resistant pre-coat with durable powder finish
- Driftwood Tan

Options:

- Aluminum Transfer Door Grille with additional loose frame
MODEL: 4100



4000 SERIES



4100 SERIES

Performance Data: 4000 Series

| Size | Eff. Area (ft ²) | Neck Velocity (FPM) Velocity Pressure | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-------|------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | | | 0.026 | 0.032 | 0.048 | 0.07 | 0.092 | 0.12 | 0.14 |
| 10×10 | 0.305 | CFM | 92 | 122 | 153 | 183 | 214 | 244 | 275 |
| | | NC | <20 | <20 | <20 | <20 | 20-25 | 25-30 | 30-35 |
| 12×12 | 0.439 | CFM | 132 | 176 | 220 | 264 | 307 | 351 | 395 |
| | | NC | <20 | <20 | <20 | <20 | 20-25 | 25-30 | 30-35 |
| 14×14 | 0.598 | CFM | 179 | 239 | 299 | 359 | 418 | 478 | 538 |
| | | NC | <20 | <20 | <20 | 20-25 | 25-30 | 30-35 | 35-40 |
| 20×12 | 0.745 | CFM | 223 | 298 | 372 | 447 | 521 | 596 | 670 |
| | | NC | <20 | <20 | <20 | 20-25 | 25-30 | 30-35 | 35-40 |
| 16×16 | 0.780 | CFM | 234 | 312 | 390 | 468 | 546 | 624 | 702 |
| | | NC | <20 | <20 | <20 | 20-25 | 25-30 | 30-35 | 35-40 |
| 24×12 | 0.898 | CFM | 269 | 359 | 449 | 539 | 628 | 718 | 808 |
| | | NC | <20 | <20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 |
| 18×18 | 0.987 | CFM | 296 | 395 | 494 | 592 | 691 | 790 | 889 |
| | | NC | <20 | <20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 |
| 24×16 | 1.183 | CFM | 355 | 473 | 592 | 710 | 828 | 947 | 1065 |
| | | NC | <20 | <20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 |
| 20×20 | 1.219 | CFM | 366 | 488 | 609 | 731 | 853 | 975 | 1097 |
| | | NC | <20 | <20 | 25-30 | 30-35 | 35 | 35-40 | 40-45 |
| 24×18 | 1.326 | CFM | 398 | 530 | 663 | 796 | 928 | 1061 | 1193 |
| | | NC | <20 | <20 | 25-30 | 30-35 | 35 | 35-40 | 40-45 |
| 24×24 | 1.754 | CFM | 526 | 702 | 877 | 1053 | 1228 | 1403 | 1579 |
| | | NC | <20 | 20-25 | 25-30 | 30-35 | 35 | 35-40 | 40-45 |

Performance Notes:

1 Additional performance data for sizes not listed is available at www.shoemakerfmfg.com

2 Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air

3 Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006



Field Adjustable



High Capacity



MRI Compatible



Multi-Family



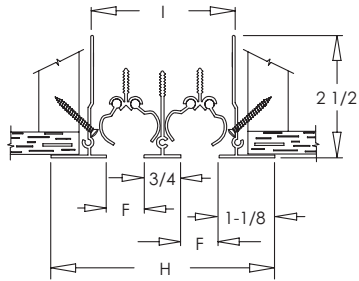
Expedited Service



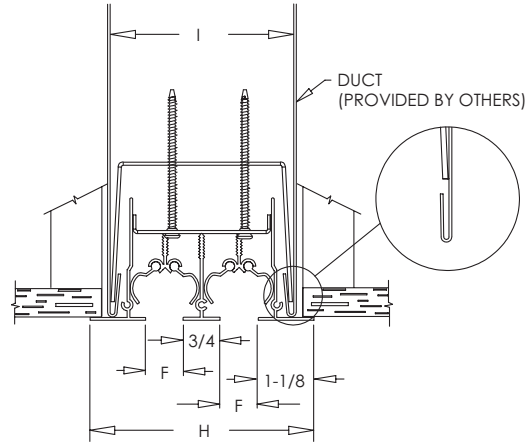
Extended Leadtime

LINEAR SLOT DIFFUSER SERIES

Mounting Types:



TYPE 5
CONCEALED MOUNT



TYPE 6
DUCT BRACKET MOUNT

Dimensions in Inches

| Number of Slots | Slot Width (F) | Overall Width by Frame Type (H) | | | Width of Back without Plenum by Frame Type (I) | |
|-----------------|----------------|---------------------------------|--------------|-------|--|----------------|
| | | 1 | 2, 4, 5, & 6 | 3 | 1, 2, 3, 4, & 5 | 6 (Duct Width) |
| 1 SLOT | 1/2 | 1 1/2 | 2 3/4 | 3 1/4 | 1 1/2 | 1 3/4 |
| | 3/4 | 1 3/4 | 3 | 3 1/2 | 1 3/4 | 2 |
| | 1 | 2 | 3 1/4 | 3 3/4 | 2 | 2 1/4 |
| 2 SLOT | 1/2 | 2 3/4 | 4 | 4 1/2 | 2 3/4 | 3 |
| | 3/4 | 3 1/4 | 4 1/2 | 5 | 3 1/4 | 3 1/2 |
| | 1 | 3 3/4 | 5 | 5 1/2 | 3 3/4 | 4 |
| 3 SLOT | 1/2 | 4 | 5 1/4 | 5 3/4 | 4 | 4 1/4 |
| | 3/4 | 4 3/4 | 6 | 6 1/2 | 4 3/4 | 5 |
| | 1 | 5 1/2 | 6 3/4 | 7 1/4 | 5 1/2 | 5 3/4 |
| 4 SLOT | 1/2 | 5 1/4 | 6 1/2 | 7 | 5 1/4 | 5 1/2 |
| | 3/4 | 6 1/4 | 7 1/2 | 8 | 6 1/4 | 6 1/2 |
| | 1 | 7 1/4 | 8 1/2 | 9 | 7 1/4 | 7 1/2 |

Dimensional Notes:

- Mounting Types 1, 2, & 3
 - Length ID: Nominal -1/4"
- Mounting Types 4, 5, & 6
 - Length ID: Nominal -1/4"
 - Length OD: Nominal +1 1/4"
- Width of back with plenum is equal to Dimension I + 1/2". Plenum not available on mounting type 6.