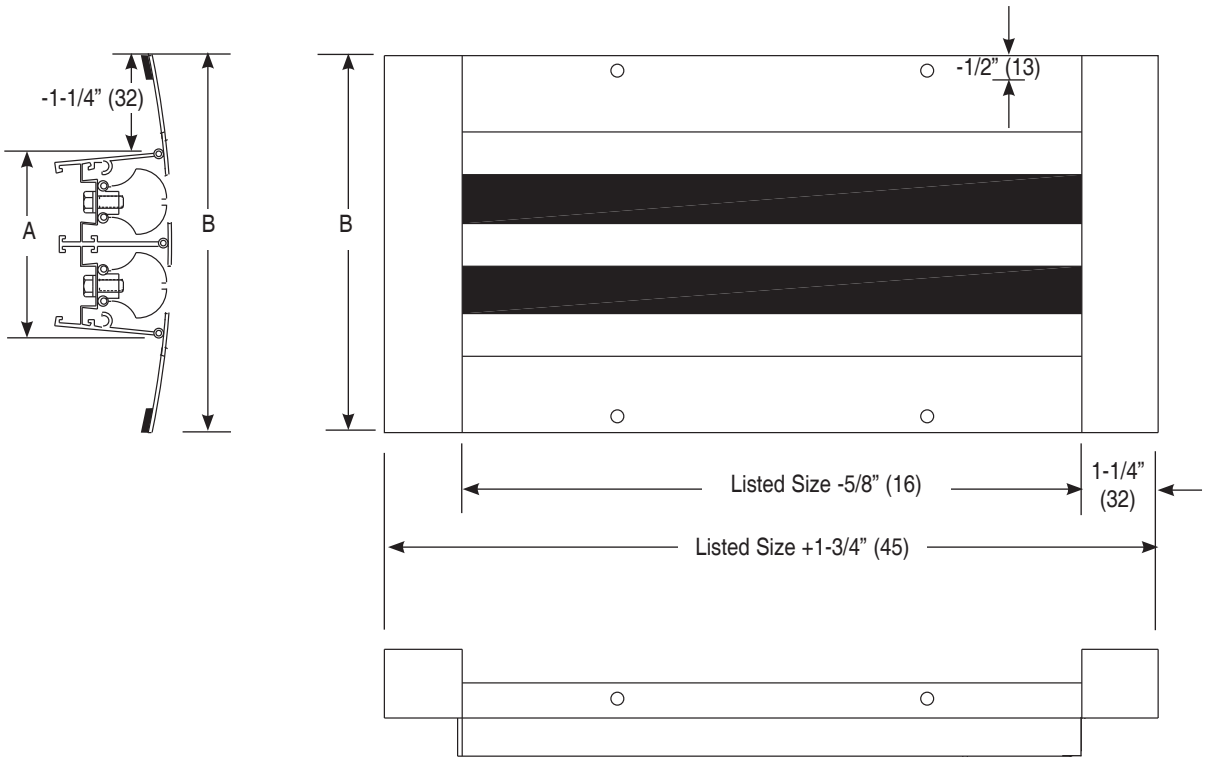
**Models RDAM, RDBM, RDCM**




**NOTES:**

1. Standard screws are #6 x 1 1/4" (32) phillips countersunk screws.
2. Standard color is Carnes bright white. Other colors are available on request.
3. Available in 1/2", 3/4" or 1" slots, 1 through 6 slots are standard.
4. Standard sizing is in even inch increments in both dimensions.
5. The standard operator on the damper takes a medium size screwdriver.
6. Metric dimensions are given in millimeters.
7. Thick foam gasket standard.
8. Larger sizes available upon request.
9. Gasketing on frame is standard.

| Dimensions Listed In Inches | | | | | | |
|---|---|---|---|---|---|---|
| Height | 3 | 4 | 6 | 8 | 10 | 12 |
| Duct Diameter (Min/Max) | 6 / 36 | 8 / 36 | 10 / 36 | 12 / 36 | 14 / 36 | 16 / 36 |
| Width (Min/Max) | 10 / 48 | | | 14 / 48 | 16 / 48 | 18 / 48 |

| Number of Slots | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| RDAM (1/2" Slot) | A | 1-5/8 | 2-7/8 | 4-1/16 | 5-1/4 | 6-3/8 | 7-1/2 |
| | B | 2-5/8 | 3-7/8 | 5-1/16 | 6-1/4 | 7-3/8 | 8-1/2 |
| RDBM (3/4" Slot) | A | 1-7/8 | 3-11/32 | 4-3/4 | 6-1/8 | 7-7/16 | 8-25/32 |
| | B | 2-7/8 | 4-11/32 | 5-3/4 | 7-1/8 | 8-7/16 | 9-25/32 |
| RDCM (1" Slot) | A | 2-1/8 | 3-27/32 | 5-1/2 | 7-1/16 | 8-7/16 | 10-5/8 |
| | B | 3-1/8 | 4-27/32 | 6-1/2 | 8-1/16 | 9-7/16 | 11-5/8 |

| No. of Slots | CFM/ Foot | 1/2" Slot | | | | | 3/4" Slot | | | | | 1" Slot | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pt | NC | Throw - FPM | | | Pt | NC | Throw - FPM | | | Pt | NC | Throw - FPM | | |
| | | | | 150 | 100 | 50 | | | 150 | 100 | 50 | | | 150 | 100 | 50 |
| 1 | 10 | 0.01 | L | 0 | 2 | 4 | 0.01 | L | 0 | 1 | 3 | 0.01 | L | 0 | 1 | 2 |
| | 15 | 0.03 | L | 2 | 4 | 8 | 0.02 | L | 2 | 3 | 7 | 0.01 | L | 1 | 2 | 5 |
| | 20 | 0.05 | L | 4 | 7 | 12 | 0.03 | L | 3 | 6 | 10 | 0.02 | L | 2 | 4 | 8 |
| | 25 | 0.07 | L | 6 | 9 | 15 | 0.05 | L | 5 | 8 | 13 | 0.02 | L | 4 | 7 | 11 |
| | 30 | 0.11 | 22 | 8 | 11 | 17 | 0.07 | L | 7 | 10 | 16 | 0.04 | L | 6 | 8 | 13 |
| | 40 | 0.19 | 30 | 11 | 14 | 21 | 0.13 | 25 | 10 | 14 | 19 | 0.06 | 20 | 8 | 12 | 16 |
| | 50 | 0.30 | 37 | 13 | 16 | 24 | 0.20 | 31 | 12 | 16 | 22 | 0.10 | 27 | 10 | 13 | 19 |
| | 60 | | | | | | 0.29 | 37 | 14 | 17 | 24 | 0.15 | 32 | 12 | 15 | 21 |
| | 70 | | | | | | | | | | | 0.20 | 36 | 13 | 16 | 24 |
| 2 | 25 | 0.02 | L | 2 | 4 | 9 | 0.01 | L | 2 | 4 | 9 | 0.01 | L | 1 | 2 | 5 |
| | 30 | 0.03 | L | 3 | 6 | 12 | 0.02 | L | 3 | 5 | 11 | 0.01 | L | 2 | 4 | 7 |
| | 40 | 0.05 | L | 5 | 9 | 16 | 0.03 | L | 5 | 8 | 14 | 0.02 | L | 4 | 7 | 12 |
| | 50 | 0.07 | 20 | 7 | 11 | 19 | 0.05 | L | 7 | 10 | 17 | 0.02 | L | 6 | 9 | 14 |
| | 60 | 0.11 | 25 | 9 | 14 | 21 | 0.07 | 20 | 9 | 12 | 19 | 0.04 | L | 7 | 11 | 16 |
| | 70 | 0.14 | 30 | 11 | 15 | 23 | 0.10 | 24 | 10 | 14 | 21 | 0.05 | L | 9 | 12 | 19 |
| | 80 | 0.19 | 34 | 13 | 17 | 25 | 0.13 | 28 | 12 | 16 | 23 | 0.06 | 23 | 11 | 14 | 21 |
| | 90 | 0.24 | 37 | 14 | 19 | 26 | 0.16 | 31 | 13 | 18 | 25 | 0.08 | 26 | 12 | 16 | 22 |
| | 100 | 0.29 | 40 | 15 | 19 | 28 | 0.20 | 34 | 14 | 19 | 26 | 0.10 | 30 | 13 | 16 | 24 |
| | 120 | | | | | | 0.29 | 40 | 16 | 21 | 28 | 0.15 | 35 | 14 | 19 | 26 |
| | 140 | | | | | | | | | | | 0.20 | 39 | 16 | 20 | 28 |
| 3 | 30 | 0.01 | L | 2 | 4 | 9 | 0.01 | L | 2 | 3 | 8 | | | | | |
| | 40 | 0.02 | L | 4 | 7 | 14 | 0.01 | L | 3 | 5 | 12 | 0.01 | L | 2 | 4 | 9 |
| | 50 | 0.03 | L | 5 | 9 | 16 | 0.02 | L | 4 | 7 | 14 | 0.01 | L | 4 | 7 | 12 |
| | 60 | 0.05 | L | 7 | 11 | 19 | 0.03 | L | 6 | 10 | 17 | 0.02 | L | 5 | 8 | 14 |
| | 70 | 0.06 | 20 | 8 | 12 | 21 | 0.04 | L | 7 | 12 | 19 | 0.02 | L | 7 | 10 | 16 |
| | 80 | 0.08 | 23 | 9 | 14 | 22 | 0.06 | L | 9 | 13 | 21 | 0.03 | L | 7 | 11 | 18 |
| | 90 | 0.11 | 27 | 11 | 15 | 24 | 0.07 | 21 | 10 | 14 | 22 | 0.03 | L | 9 | 12 | 19 |
| | 100 | 0.13 | 30 | 12 | 16 | 25 | 0.09 | 24 | 12 | 16 | 24 | 0.04 | 20 | 10 | 14 | 21 |
| | 120 | 0.19 | 35 | 14 | 19 | 27 | 0.13 | 30 | 14 | 19 | 26 | 0.06 | 25 | 12 | 16 | 24 |
| | 140 | 0.25 | 40 | 16 | 21 | 29 | 0.17 | 34 | 15 | 19 | 28 | 0.09 | 30 | 13 | 18 | 25 |
| | 160 | 0.33 | 44 | 17 | 22 | 31 | 0.23 | 38 | 16 | 21 | 29 | 0.11 | 33 | 15 | 19 | 27 |
| | 180 | | | | | | 0.29 | 42 | 18 | 22 | 31 | 0.15 | 37 | 16 | 14 | 28 |
| | 200 | | | | | | | | | | | 0.18 | 40 | 17 | 21 | 30 |
| 4 | 40 | 0.01 | L | 2 | 4 | 12 | 0.01 | L | 2 | 4 | 10 | | | | | |
| | 50 | 0.02 | L | 4 | 7 | 14 | 0.01 | L | 3 | 6 | 13 | 0.01 | L | 2 | 4 | 10 |
| | 60 | 0.03 | L | 4 | 8 | 16 | 0.02 | L | 4 | 7 | 15 | 0.01 | L | 4 | 7 | 13 |
| | 70 | 0.03 | L | 6 | 10 | 19 | 0.02 | L | 5 | 9 | 17 | 0.01 | L | 4 | 8 | 14 |
| | 80 | 0.05 | L | 7 | 12 | 21 | 0.03 | L | 7 | 11 | 19 | 0.02 | L | 6 | 9 | 16 |
| | 90 | 0.06 | 20 | 8 | 13 | 22 | 0.04 | L | 8 | 12 | 21 | 0.02 | L | 7 | 11 | 18 |
| | 100 | 0.07 | 23 | 9 | 14 | 24 | 0.05 | L | 9 | 14 | 22 | 0.02 | L | 8 | 12 | 19 |
| | 120 | 0.10 | 28 | 12 | 16 | 26 | 0.07 | 23 | 11 | 16 | 24 | 0.03 | L | 9 | 14 | 21 |
| | 140 | 0.14 | 33 | 14 | 19 | 28 | 0.10 | 27 | 13 | 18 | 26 | 0.05 | 22 | 12 | 16 | 24 |
| | 160 | 0.18 | 37 | 15 | 20 | 29 | 0.13 | 31 | 14 | 19 | 28 | 0.06 | 26 | 13 | 18 | 26 |
| | 180 | 0.23 | 40 | 16 | 21 | 31 | 0.16 | 34 | 16 | 21 | 29 | 0.08 | 30 | 14 | 19 | 26 |
| | 200 | 0.28 | 43 | 17 | 23 | 32 | 0.20 | 38 | 16 | 21 | 31 | 0.10 | 33 | 15 | 19 | 28 |
| | 220 | | | | | | 0.24 | 40 | 18 | 23 | 32 | 0.11 | 35 | 16 | 21 | 29 |
| | 240 | | | | | | 0.29 | 43 | 19 | 24 | 33 | 0.15 | 38 | 17 | 22 | 31 |
| | 260 | | | | | | | | | | | 0.17 | 40 | 18 | 22 | 31 |
| | 280 | | | | | | | | | | | 0.20 | 42 | 18 | 23 | 32 |

**Notes on Performance Data**

- Performance data is based on tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.
- Actual performance in the field may vary.
- Tests were conducted in isothermal conditions.
- Sound levels are based on a room absorption of 10 db re $10^{-12}$ watts.

**Notes on Units of Measure Used**

- Air flow is given in cubic feet per minute (CFM).
- Static Pressure is given in inches of water (w.g.).
- Sound data is given in NC.
- Throws are given in feet to terminal velocity of 150, 100 and 50 fpm, respectively.

| No. of Slots | CFM/ Foot | 1/2" Slot | | | | | 3/4" Slot | | | | | 1" Slot | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pt | NC | Throw - FPM | | | Pt | NC | Throw - FPM | | | Pt | NC | Throw - FPM | | |
| | | | | 150 | 100 | 50 | | | 150 | 100 | 50 | | | 150 | 100 | 50 |
| 5 | 50 | 0.01 | L | 3 | 5 | 14 | | | | | | | | | | |
| | 60 | 0.02 | L | 4 | 7 | 16 | 0.01 | L | 4 | 7 | 15 | | | | | |
| | 70 | 0.03 | L | 5 | 9 | 18 | 0.01 | L | 5 | 9 | 10 | 0.01 | L | 4 | 7 | 14 |
| | 80 | 0.03 | L | 6 | 10 | 20 | 0.02 | L | 6 | 9 | 19 | 0.01 | L | 4 | 8 | 16 |
| | 90 | 0.04 | L | 7 | 12 | 21 | 0.02 | L | 7 | 11 | 20 | 0.01 | L | 6 | 9 | 17 |
| | 100 | 0.05 | L | 8 | 13 | 23 | 0.03 | L | 7 | 12 | 21 | 0.02 | L | 7 | 11 | 19 |
| | 120 | 0.07 | 23 | 9 | 15 | 25 | 0.05 | L | 9 | 14 | 24 | 0.02 | L | 8 | 12 | 21 |
| | 140 | 0.10 | 27 | 12 | 17 | 27 | 0.06 | 22 | 11 | 16 | 26 | 0.03 | L | 10 | 14 | 23 |
| | 160 | 0.13 | 31 | 13 | 18 | 28 | 0.08 | 26 | 12 | 17 | 26 | 0.04 | 21 | 11 | 16 | 24 |
| | 180 | 0.16 | 34 | 15 | 20 | 30 | 0.10 | 29 | 14 | 19 | 28 | 0.05 | 24 | 13 | 17 | 26 |
| | 200 | 0.19 | 37 | 16 | 22 | 31 | 0.12 | 32 | 15 | 21 | 30 | 0.06 | 27 | 14 | 19 | 27 |
| | 220 | 0.23 | 40 | 17 | 23 | 33 | 0.15 | 35 | 16 | 21 | 31 | 0.08 | 30 | 15 | 20 | 28 |
| | 240 | 0.27 | 43 | 18 | 24 | 33 | 0.18 | 38 | 17 | 23 | 32 | 0.09 | 33 | 16 | 21 | 30 |
| | 260 | 0.31 | 45 | 19 | 24 | 34 | 0.21 | 40 | 18 | 23 | 33 | 0.11 | 35 | 16 | 21 | 31 |
| | 280 | | | | | | 0.26 | 42 | 19 | 24 | 33 | 0.12 | 37 | 17 | 22 | 31 |
| | 300 | | | | | | | | | | | 0.15 | 39 | 18 | 23 | 32 |
| | 350 | | | | | | | | | | | 0.20 | 44 | 19 | 24 | 34 |
| 6 | 60 | 0.01 | L | 4 | 7 | 16 | | | | | | | | | | |
| | 70 | 0.02 | L | 4 | 8 | 18 | 0.01 | L | 4 | 8 | 17 | | | | | |
| | 80 | 0.02 | L | 5 | 9 | 20 | 0.01 | L | 5 | 9 | 19 | 0.01 | L | 4 | 7 | 16 |
| | 90 | 0.03 | L | 6 | 11 | 21 | 0.02 | L | 6 | 10 | 20 | 0.01 | L | 5 | 9 | 17 |
| | 100 | 0.04 | L | 7 | 12 | 22 | 0.02 | L | 7 | 12 | 21 | 0.01 | L | 6 | 10 | 19 |
| | 120 | 0.05 | L | 9 | 14 | 24 | 0.03 | L | 8 | 13 | 23 | 0.02 | L | 7 | 12 | 21 |
| | 140 | 0.07 | 23 | 10 | 16 | 26 | 0.04 | L | 9 | 15 | 25 | 0.02 | L | 9 | 14 | 22 |
| | 160 | 0.09 | 27 | 12 | 17 | 28 | 0.05 | 22 | 11 | 16 | 26 | 0.03 | L | 10 | 14 | 24 |
| | 180 | 0.11 | 30 | 13 | 19 | 29 | 0.07 | 25 | 12 | 18 | 28 | 0.03 | 20 | 12 | 16 | 25 |
| | 200 | 0.13 | 33 | 14 | 20 | 31 | 0.08 | 28 | 14 | 19 | 28 | 0.04 | 23 | 12 | 17 | 26 |
| | 220 | 0.16 | 36 | 16 | 21 | 31 | 0.10 | 31 | 15 | 21 | 30 | 0.05 | 26 | 14 | 19 | 27 |
| | 240 | 0.19 | 38 | 16 | 23 | 33 | 0.12 | 33 | 16 | 21 | 31 | 0.06 | 29 | 14 | 20 | 28 |
| | 260 | 0.22 | 41 | 17 | 24 | 33 | 0.14 | 36 | 16 | 22 | 32 | 0.07 | 31 | 15 | 20 | 29 |
| | 280 | 0.25 | 43 | 18 | 24 | 34 | 0.16 | 38 | 17 | 23 | 33 | 0.08 | 34 | 16 | 21 | 30 |
| | 300 | 0.29 | 45 | 19 | 25 | 35 | 0.19 | 40 | 18 | 24 | 33 | 0.10 | 36 | 17 | 22 | 31 |
| | 325 | | | | | | 0.22 | 42 | 19 | 24 | 34 | 0.12 | 38 | 17 | 23 | 32 |
| | 350 | | | | | | 0.26 | 45 | 20 | 25 | 35 | 0.13 | 40 | 18 | 24 | 33 |
| | 375 | | | | | | 0.30 | 47 | 21 | 26 | 36 | 0.15 | 42 | 19 | 24 | 33 |
| | 400 | | | | | | | | | | | 0.18 | 44 | 19 | 25 | 34 |

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