

## Introduction: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU

The 5DMG\*R and 5DMG\*U series spiral duct supply grilles are designed to be installed directly on spiral duct, eliminating the need for costly register taps. Each series is offered with adjustable, single or double deflection blades as well as an extractor damper for volume control. The 5DMG\*R series features curved end caps which fit your specific duct diameter requirements for a clean, unobtrusive appearance. For added flexibility, the 5DMG\*U offers universal foam end caps which allow one grille size to fit multiple round duct work diameters. The exceptional performance and ease of installation makes Krueger's 5DMG\*R and 5DMG\*U series spiral duct supply grilles an ideal choice for exposed duct ceiling applications.

### MODELS

- 5DMGSR - Single deflection spiral duct supply grille with end caps, curved to fit a specific duct diameter.
- 5DMGDR - Double deflection spiral duct supply grille with end caps, curved to fit a specific duct diameter.
- 5DMGSU - Single deflection spiral duct supply grille with universal end caps to accommodate multiple duct diameters.
- 5DMGDU - Double deflection spiral duct supply grille with universal end caps to accommodate multiple duct diameters.

### FEATURES

- 3/4" blade spacing.
- All aluminum construction.

### ACCESSORIES

- Damper/Extractor

### FINISHES

- Standard finish is #44 British White or #81 Clear Anodize.
- Optional finishes available.

### RELATED DEFINITIONS

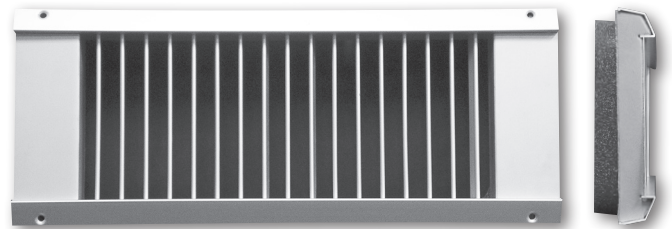
- **ENTRAINED JET:** A jet that is near enough to a ceiling or wall to become attached or develop the Coanda Effect. \*\*
- **FREE JET:** A jet that is not obstructed by walls, ceilings, or other obstructions. \*\*

#### NOTE:

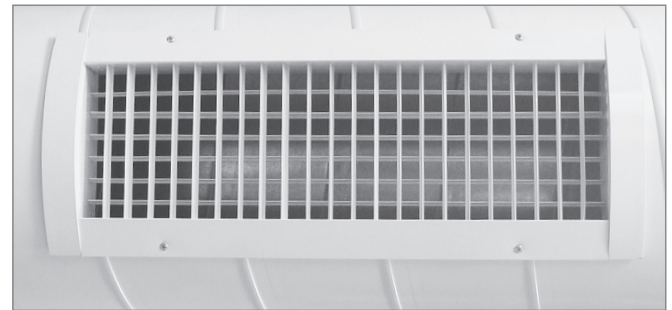
\*\* For further information regarding entrained and free jets, reference ASHRAE Handbook Fundamentals.



5DMGDR Radius End Cap Duct Mounted Grille, face view (left) and side view (right).



5DMGSU Universal End Cap Duct Mounted Grille, face view (left) and side view (right).

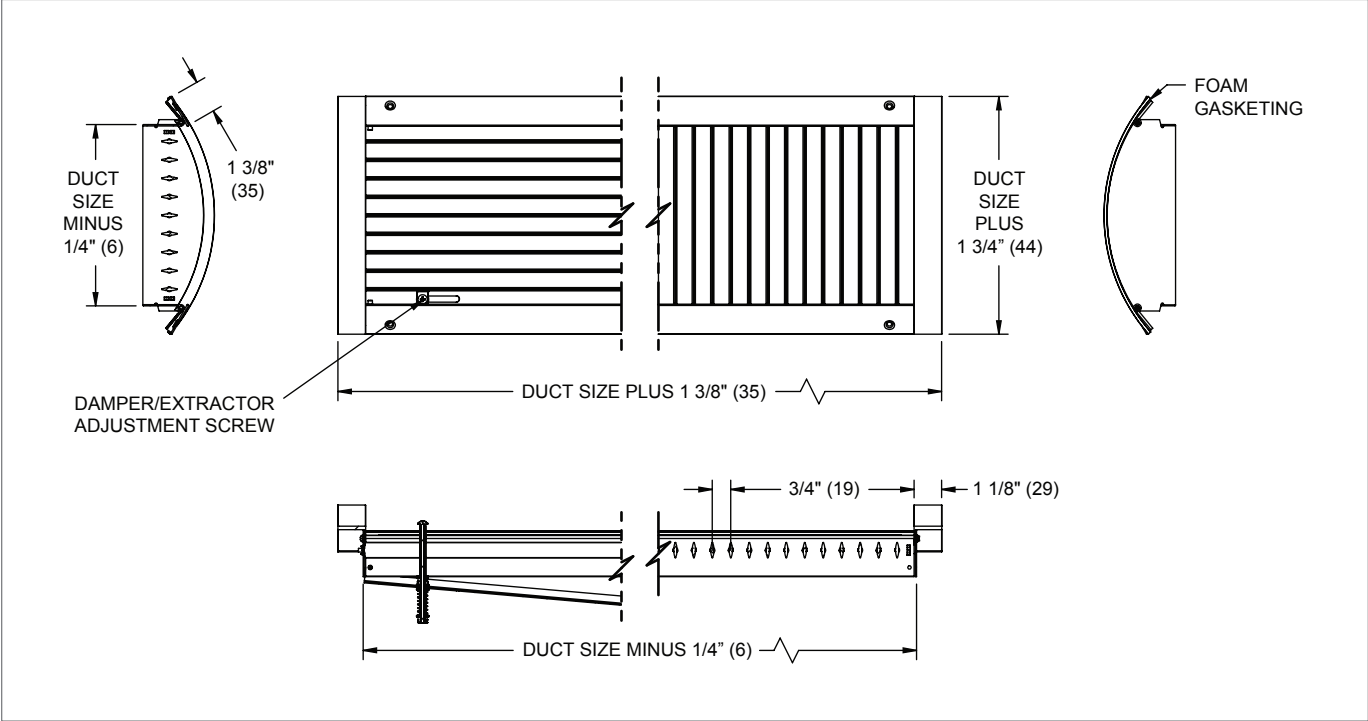


5DMGDR Radius End Cap Duct Mounted Grille, installed face view.

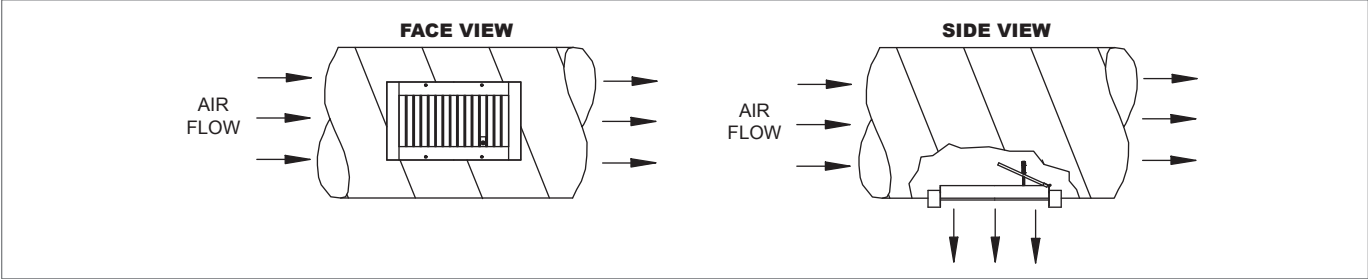
5DMGSR | Single Deflection, Radius End Caps

5DMGSR Dimensional Information

5DMGSR, FACE VIEW, SIDE VIEW, & CROSS SECTIONS



5DMGSR, AIRFLOW DESCRIPTIONS



5DMGSR Dimensional Details

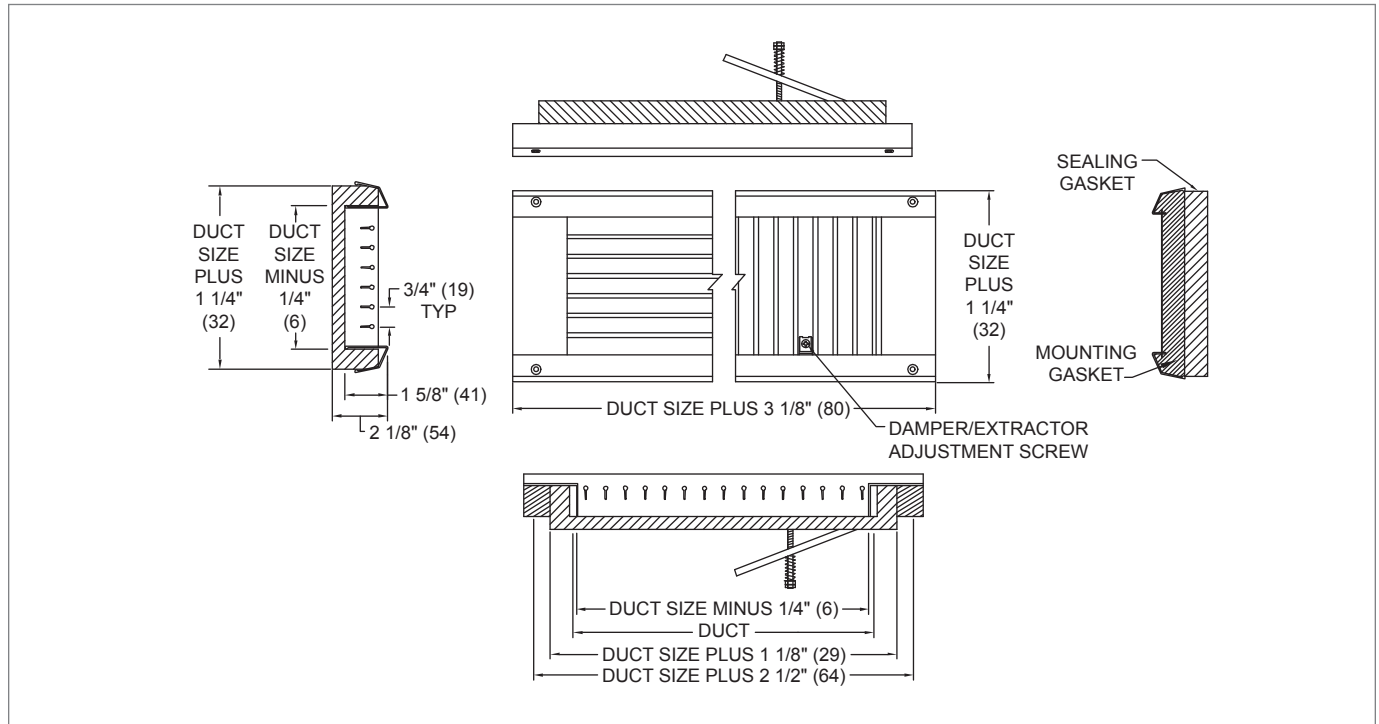
5DMGSR, AVAILABLE SIZES & MINIMUM DUCT DIAMETERS

|        |           | Width     |           |           |           |           |           |           |           |           |            |            |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
|        |           | 10" (254) | 12" (305) | 14" (356) | 16" (406) | 18" (457) | 20" (508) | 24" (610) | 30" (762) | 36" (914) | 42" (1067) | 48" (1219) |
| Height | 3" (76)   | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)   | 6" (152)   |
|        | 4" (102)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)   | 6" (152)   |
|        | 6" (152)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)   | 8" (203)   |
|        | 8" (203)  | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254)  | 10" (254)  |
|        | 10" (254) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305)  | 12" (305)  |
|        | 12" (305) | -         | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356)  | 14" (356)  |

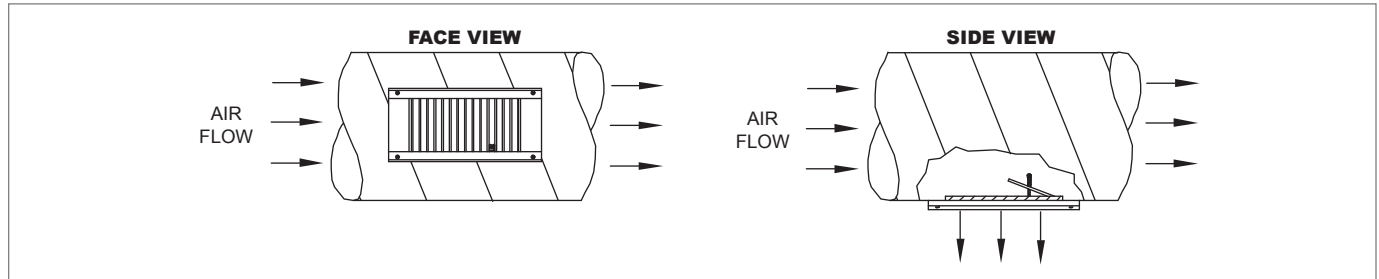
NOTES: Dimensions in parentheses are mm. Maximum duct diameter for all sizes is 36" (914). Duct diameter available in 2" increments. Dash in space indicates not available.

## 5DMGSU Dimensional Information

### 5DMGSU, FACE VIEW, SIDE VIEW, & CROSS SECTIONS



### 5DMGSU, AIRFLOW DESCRIPTIONS



## 5DMGSU Dimensional Details

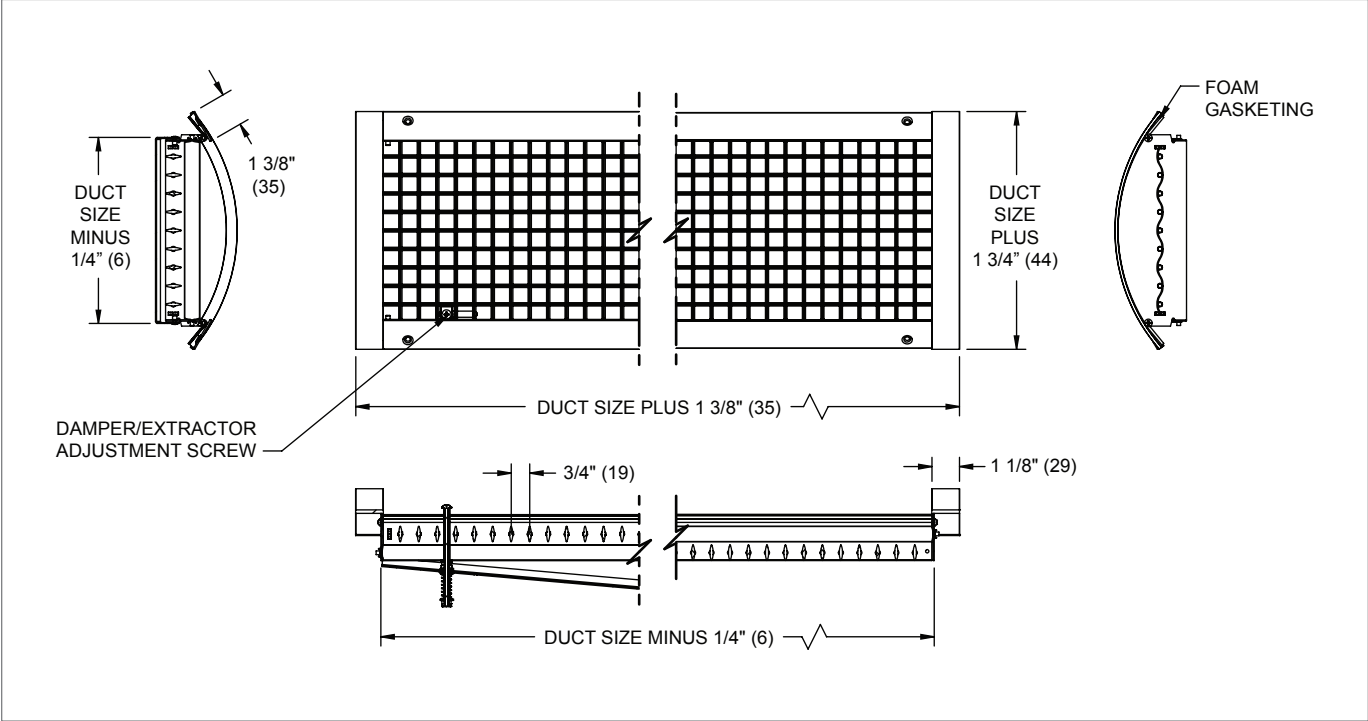
### 5DMGSU, AVAILABLE SIZES & MINIMUM DUCT DIAMETERS

|        |           | Width     |           |           |           |           |           |           |           |           |            |            |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
|        |           | 10" (254) | 12" (305) | 14" (356) | 16" (406) | 18" (457) | 20" (508) | 24" (610) | 30" (762) | 36" (914) | 42" (1067) | 48" (1219) |
| Height | 3" (76)   | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)   | 6" (152)   |
|        | 4" (102)  | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254)  | 10" (254)  |
|        | 6" (152)  | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305)  | 12" (305)  |
|        | 8" (203)  | -         | -         | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508)  | 20" (508)  |
|        | 10" (254) | -         | -         | -         | 24" (610) | 24" (610) | 24" (610) | 24" (610) | 24" (610) | 24" (610) | 24" (610)  | 24" (610)  |

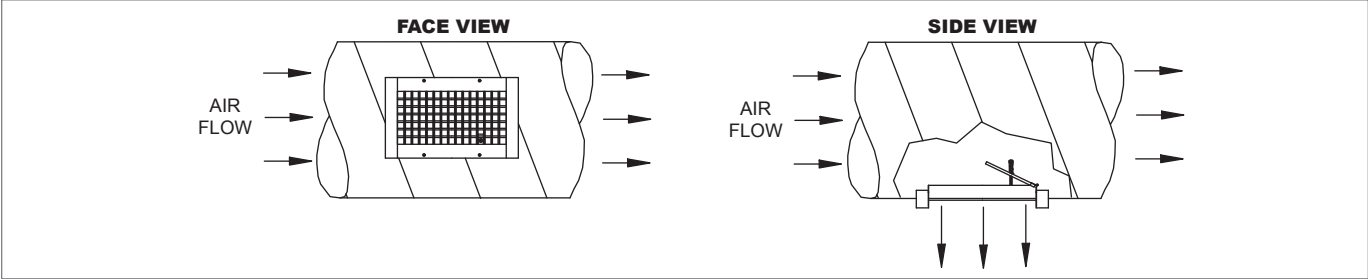
NOTES: Dimensions in parentheses are mm. Maximum duct diameter for all sizes is 36" (914). Duct diameter available in 2" increments. Dash in space indicates not available.

5DMGDR Dimensional Information

5DMGDR, FACE VIEW, SIDE VIEW, & CROSS SECTIONS



5DMGDR, AIRFLOW DESCRIPTIONS



5DMGDR Dimensional Details

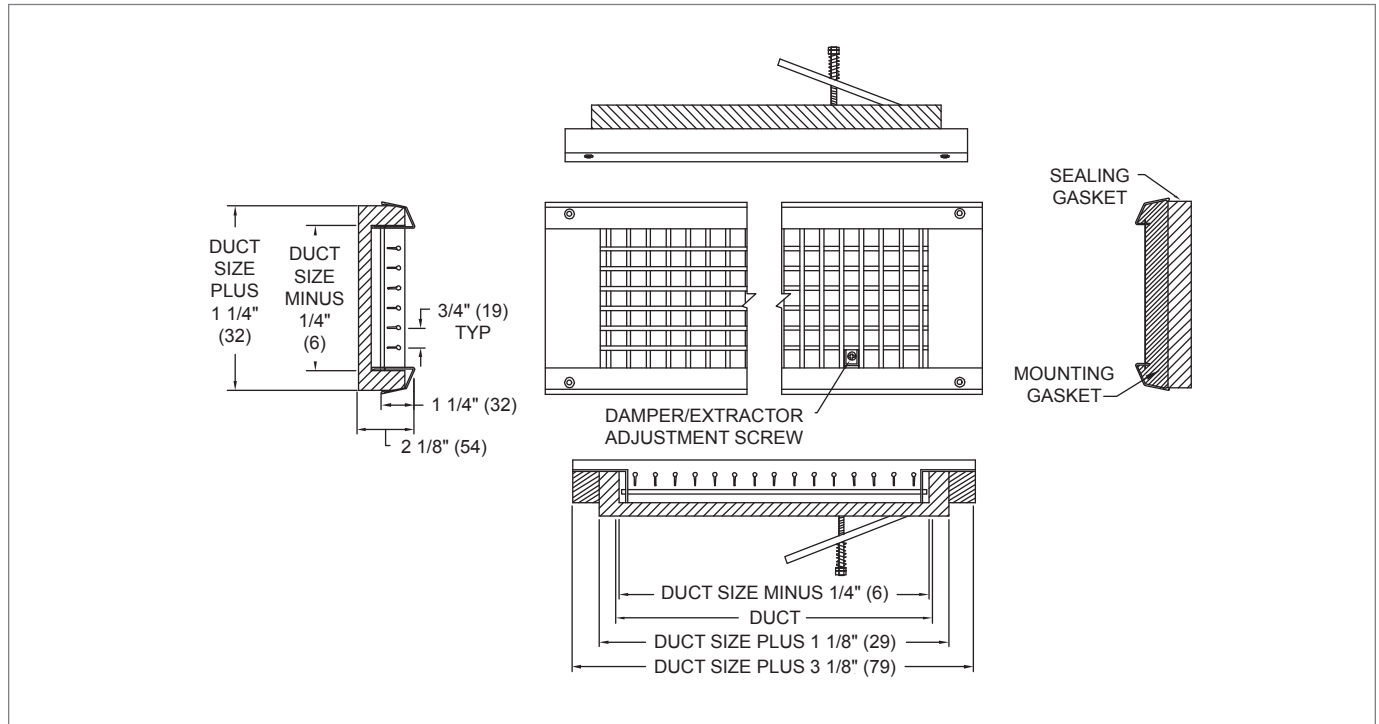
5DMGDR, AVAILABLE SIZES & MINIMUM DUCT DIAMETERS

|        |           | Width     |           |           |           |           |           |           |           |           |            |            |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
|        |           | 10" (254) | 12" (305) | 14" (356) | 16" (406) | 18" (457) | 20" (508) | 24" (610) | 30" (762) | 36" (914) | 42" (1067) | 48" (1219) |
| Height | 3" (76)   | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)   | 6" (152)   |
|        | 4" (102)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)   | 6" (152)   |
|        | 6" (152)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)  | 8" (203)   | 8" (203)   |
|        | 8" (203)  | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254)  | 10" (254)  |
|        | 10" (254) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305)  | 12" (305)  |
|        | 12" (305) | -         | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356) | 14" (356)  | 14" (356)  |

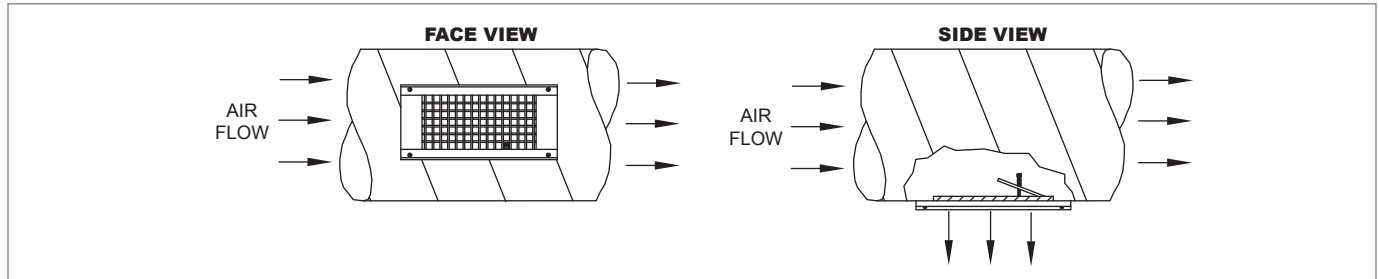
NOTES: Dimensions in parentheses are mm. Maximum duct diameter for all sizes is 36" (914). Duct diameter available in 2" increments. Dash in space indicates not available.

## 5DMGDU Dimensional Information

### 5DMGDU, FACE VIEW, SIDE VIEW, & CROSS SECTIONS



### 5DMGDU, AIRFLOW DESCRIPTIONS



## 5DMGDU Dimensional Details

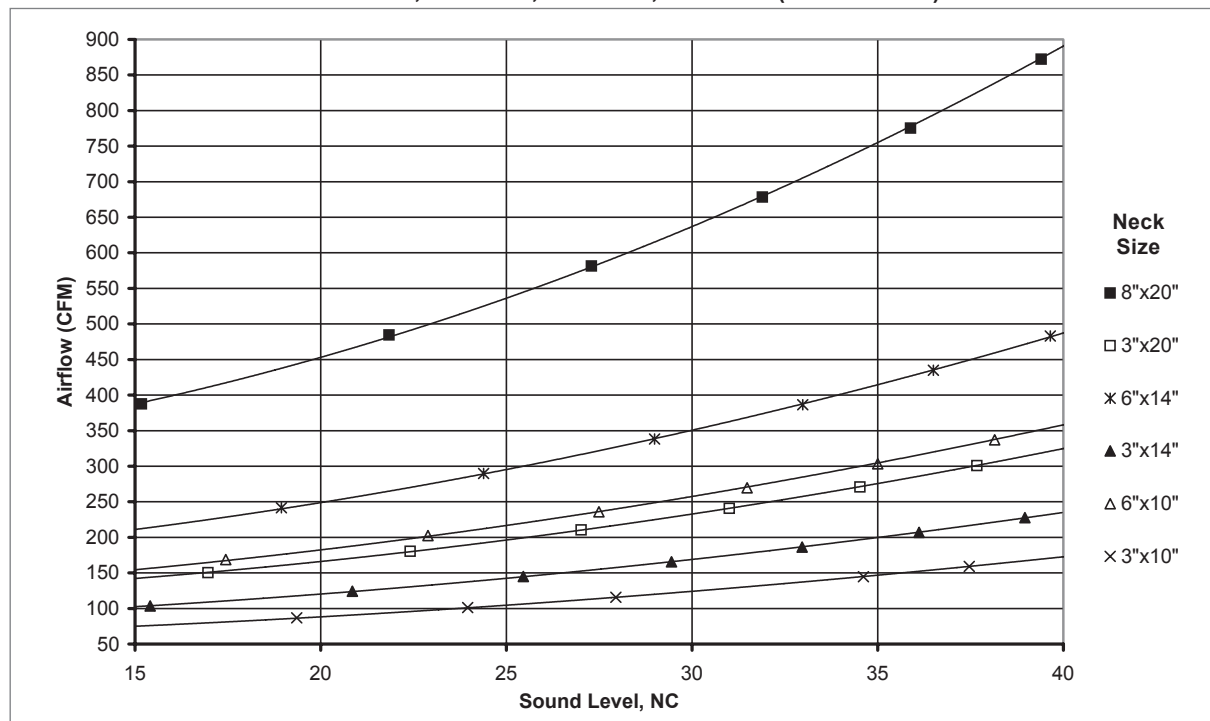
### 5DMGDU, AVAILABLE SIZES & MINIMUM DUCT DIAMETERS

|        |           | Width     |           |           |           |           |           |           |           |           |            |            |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
|        |           | 10" (254) | 12" (305) | 14" (356) | 16" (406) | 18" (457) | 20" (508) | 24" (610) | 30" (762) | 36" (914) | 42" (1067) | 48" (1219) |
| Height | 3" (76)   | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)  | 6" (152)   | 6" (152)   |
|        | 4" (102)  | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254) | 10" (254)  | 10" (254)  |
|        | 6" (152)  | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305) | 12" (305)  | 12" (305)  |
|        | 8" (203)  | -         | -         | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508) | 20" (508)  | 20" (508)  |
|        | 10" (254) | -         | -         | -         | 24" (610) | 24" (610) | 24" (610) | 24" (610) | 24" (610) | 24" (610) | 24" (610)  | 24" (610)  |

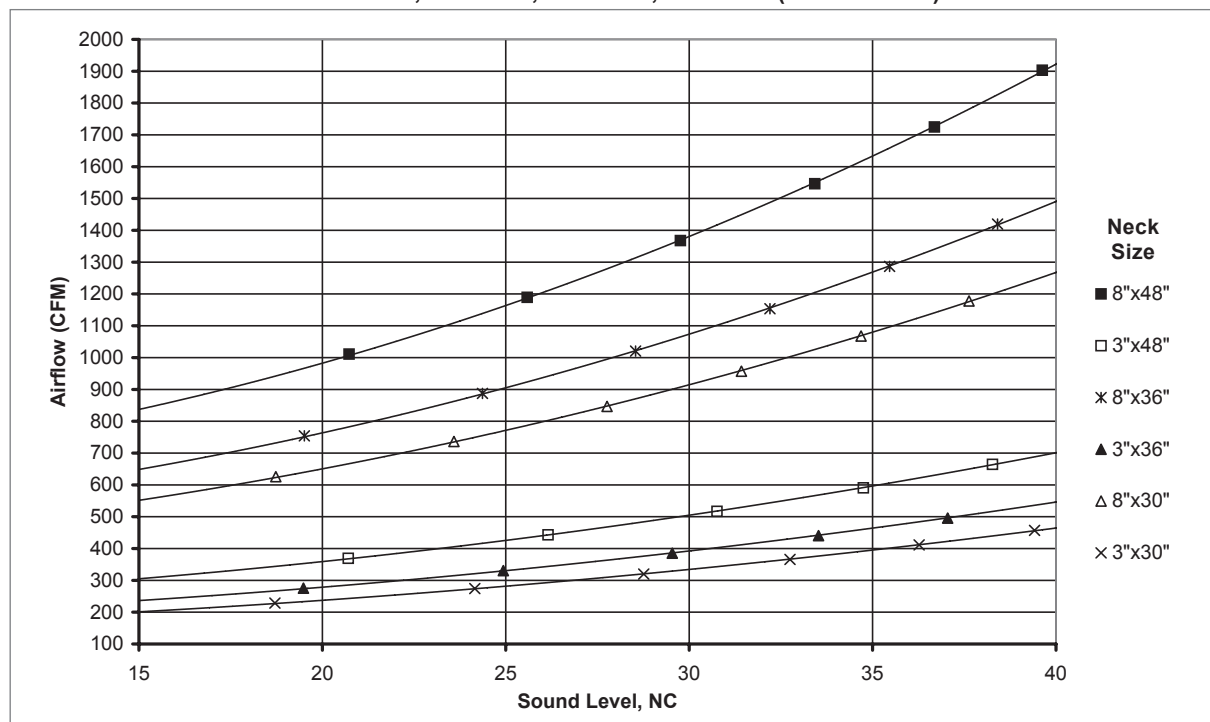
NOTES: Dimensions in parentheses are mm. Maximum duct diameter for all sizes is 36" (914). Duct diameter available in 2" increments. Dash in space indicates not available.

**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Reference Charts**

**AIRFLOW VS. NC LEVEL: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)**



**AIRFLOW VS. NC LEVEL: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)**



DUCT MOUNTED GRILLES & LOUVERS

5DMG\*R - 5DMG\*U



**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data**

**ENTRAINED JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)**

| Nom Duct | Neck Vel | Air Flow | 0°   |              | 22.5° |              | 45°  |             | NC | Octave Band, dB |    |    |    |    |    |  |
|----------|----------|----------|------|--------------|-------|--------------|------|-------------|----|-----------------|----|----|----|----|----|--|
|          |          |          | Pt   | Throw        | Pt    | Throw        | Pt   | Throw       |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| in       | FPM      | CFM      | "WG  | ft           | "WG   | ft           | "WG  | ft          |    |                 |    |    |    |    |    |  |
| 10" x 3" | 300      | 43       | .017 | 4 - 6 - 12   | .023  | 3 - 5 - 9    | .029 | 2 - 3 - 5   | -  | 29              | 16 | 17 | -  | -  | -  |  |
|          | 400      | 58       | .030 | 6 - 9 - 14   | .041  | 4 - 7 - 11   | .052 | 3 - 4 - 6   | -  | 35              | 24 | 25 | 11 | -  | -  |  |
|          | 500      | 72       | .046 | 7 - 11 - 16  | .064  | 6 - 8 - 12   | .081 | 3 - 5 - 7   | 14 | 40              | 30 | 31 | 19 | -  | -  |  |
|          | 600      | 87       | .067 | 9 - 12 - 17  | .092  | 7 - 9 - 13   | .117 | 4 - 5 - 8   | 19 | 45              | 35 | 36 | 26 | 15 | -  |  |
|          | 700      | 101      | .091 | 10 - 13 - 18 | .125  | 8 - 10 - 14  | .159 | 5 - 6 - 8   | 24 | 48              | 39 | 40 | 32 | 23 | 18 |  |
|          | 800      | 116      | .119 | 11 - 14 - 20 | .163  | 9 - 11 - 15  | .208 | 5 - 6 - 9   | 28 | 51              | 43 | 43 | 37 | 30 | 25 |  |
|          | 1000     | 145      | .186 | 13 - 16 - 22 | .255  | 10 - 12 - 17 | .325 | 6 - 7 - 10  | 35 | 57              | 49 | 49 | 45 | 41 | 36 |  |
|          | 1100     | 159      | .225 | 13 - 16 - 23 | .309  | 10 - 13 - 18 | .393 | 6 - 7 - 10  | 37 | 59              | 51 | 52 | 49 | 45 | 41 |  |
| 10" x 4" | 1200     | 173      | .267 | 14 - 17 - 24 | .368  | 11 - 13 - 19 | .468 | 6 - 8 - 11  | 40 | 61              | 54 | 54 | 52 | 50 | 45 |  |
|          | 300      | 63       | .017 | 5 - 8 - 15   | .023  | 4 - 6 - 11   | .029 | 2 - 4 - 7   | -  | 30              | 17 | 19 | -  | -  | -  |  |
|          | 400      | 84       | .030 | 7 - 10 - 17  | .041  | 5 - 8 - 13   | .052 | 3 - 5 - 8   | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|          | 500      | 104      | .046 | 9 - 13 - 19  | .064  | 7 - 10 - 15  | .081 | 4 - 6 - 8   | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|          | 600      | 125      | .067 | 10 - 15 - 21 | .092  | 8 - 11 - 16  | .117 | 5 - 7 - 9   | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
|          | 700      | 146      | .091 | 12 - 16 - 22 | .125  | 9 - 12 - 17  | .159 | 5 - 7 - 10  | 25 | 50              | 40 | 41 | 33 | 25 | 19 |  |
|          | 800      | 167      | .119 | 14 - 17 - 24 | .163  | 11 - 13 - 18 | .208 | 6 - 8 - 11  | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|          | 1000     | 209      | .186 | 15 - 19 - 27 | .255  | 12 - 15 - 21 | .325 | 7 - 8 - 12  | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
| 10" x 6" | 1100     | 230      | .225 | 16 - 20 - 28 | .309  | 12 - 15 - 22 | .393 | 7 - 9 - 13  | 39 | 60              | 53 | 54 | 50 | 47 | 42 |  |
|          | 1200     | 251      | .267 | 17 - 21 - 29 | .368  | 13 - 16 - 23 | .468 | 8 - 9 - 13  | 42 | 62              | 55 | 56 | 54 | 51 | 47 |  |
|          | 300      | 101      | .017 | 6 - 10 - 18  | .023  | 5 - 8 - 14   | .029 | 3 - 4 - 8   | -  | 32              | 19 | 21 | -  | -  | -  |  |
|          | 400      | 135      | .030 | 9 - 13 - 21  | .041  | 7 - 10 - 17  | .052 | 4 - 6 - 10  | 11 | 39              | 27 | 28 | 14 | -  | -  |  |
|          | 500      | 169      | .046 | 11 - 17 - 24 | .064  | 9 - 13 - 19  | .081 | 5 - 7 - 11  | 17 | 44              | 33 | 34 | 23 | -  | -  |  |
|          | 600      | 202      | .067 | 13 - 18 - 26 | .092  | 10 - 14 - 20 | .117 | 6 - 8 - 12  | 23 | 48              | 38 | 39 | 29 | 19 | 13 |  |
|          | 700      | 236      | .091 | 15 - 20 - 28 | .125  | 12 - 15 - 22 | .159 | 7 - 9 - 13  | 27 | 52              | 42 | 43 | 35 | 27 | 21 |  |
|          | 800      | 270      | .119 | 17 - 21 - 30 | .163  | 14 - 17 - 23 | .208 | 8 - 10 - 14 | 31 | 55              | 46 | 47 | 40 | 33 | 28 |  |
| 12" x 4" | 900      | 304      | .150 | 18 - 23 - 32 | .207  | 14 - 18 - 25 | .263 | 8 - 10 - 14 | 35 | 58              | 49 | 50 | 45 | 39 | 34 |  |
|          | 1000     | 337      | .186 | 19 - 24 - 34 | .255  | 15 - 19 - 26 | .325 | 9 - 11 - 15 | 38 | 60              | 52 | 53 | 49 | 44 | 39 |  |
|          | 1100     | 371      | .225 | 20 - 25 - 35 | .309  | 16 - 19 - 27 | .393 | 9 - 11 - 16 | 41 | 62              | 55 | 56 | 52 | 49 | 44 |  |
|          | 200      | 51       | .007 | 2 - 5 - 11   | .010  | 2 - 4 - 9    | .013 | 1 - 2 - 5   | -  | 21              | -  | -  | -  | -  | -  |  |
|          | 300      | 76       | .017 | 5 - 9 - 16   | .023  | 4 - 7 - 12   | .029 | 2 - 4 - 7   | -  | 31              | 18 | 19 | -  | -  | -  |  |
|          | 400      | 102      | .030 | 8 - 11 - 19  | .041  | 6 - 9 - 14   | .052 | 3 - 5 - 8   | -  | 38              | 26 | 27 | 13 | -  | -  |  |
|          | 500      | 127      | .046 | 10 - 14 - 21 | .064  | 7 - 11 - 16  | .081 | 4 - 6 - 9   | 16 | 43              | 32 | 33 | 21 | -  | -  |  |
|          | 600      | 152      | .067 | 11 - 16 - 23 | .092  | 9 - 12 - 18  | .117 | 5 - 7 - 10  | 22 | 47              | 37 | 38 | 28 | 18 | 12 |  |
| 14" x 3" | 700      | 178      | .091 | 13 - 17 - 25 | .125  | 10 - 13 - 19 | .159 | 6 - 8 - 11  | 26 | 51              | 41 | 42 | 34 | 25 | 20 |  |
|          | 800      | 203      | .119 | 15 - 19 - 26 | .163  | 12 - 14 - 20 | .208 | 7 - 8 - 12  | 30 | 54              | 45 | 46 | 39 | 32 | 27 |  |
|          | 900      | 229      | .150 | 16 - 20 - 28 | .207  | 12 - 15 - 22 | .263 | 7 - 9 - 13  | 34 | 57              | 48 | 49 | 44 | 38 | 33 |  |
|          | 1000     | 254      | .186 | 17 - 21 - 29 | .255  | 13 - 16 - 23 | .325 | 8 - 9 - 13  | 37 | 59              | 51 | 52 | 48 | 43 | 38 |  |
|          | 300      | 62       | .017 | 5 - 8 - 14   | .023  | 4 - 6 - 11   | .029 | 2 - 4 - 7   | -  | 30              | 17 | 18 | -  | -  | -  |  |
|          | 400      | 83       | .030 | 7 - 10 - 17  | .041  | 5 - 8 - 13   | .052 | 3 - 5 - 8   | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|          | 500      | 104      | .046 | 9 - 13 - 19  | .064  | 7 - 10 - 14  | .081 | 4 - 6 - 8   | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|          | 600      | 124      | .067 | 10 - 14 - 20 | .092  | 8 - 11 - 16  | .117 | 5 - 7 - 9   | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
| 14" x 4" | 700      | 145      | .091 | 12 - 16 - 22 | .125  | 9 - 12 - 17  | .159 | 5 - 7 - 10  | 25 | 50              | 40 | 41 | 33 | 24 | 19 |  |
|          | 800      | 166      | .119 | 14 - 17 - 24 | .163  | 11 - 13 - 18 | .208 | 6 - 8 - 11  | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|          | 900      | 186      | .150 | 14 - 18 - 25 | .207  | 11 - 14 - 19 | .263 | 7 - 8 - 11  | 33 | 56              | 47 | 48 | 43 | 37 | 32 |  |
|          | 1000     | 207      | .186 | 15 - 19 - 26 | .255  | 12 - 14 - 21 | .325 | 7 - 8 - 12  | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
|          | 1100     | 228      | .225 | 16 - 20 - 28 | .309  | 12 - 15 - 22 | .393 | 7 - 9 - 12  | 39 | 60              | 53 | 54 | 50 | 47 | 42 |  |
|          | 300      | 90       | .017 | 6 - 9 - 17   | .023  | 5 - 7 - 13   | .029 | 3 - 4 - 8   | -  | 32              | 19 | 20 | -  | -  | -  |  |
|          | 400      | 120      | .030 | 8 - 12 - 20  | .041  | 6 - 10 - 16  | .052 | 4 - 6 - 9   | -  | 38              | 27 | 28 | 14 | -  | -  |  |
|          | 500      | 150      | .046 | 10 - 16 - 22 | .064  | 8 - 12 - 17  | .081 | 5 - 7 - 10  | 17 | 44              | 33 | 34 | 22 | -  | -  |  |
| 14" x 4" | 600      | 179      | .067 | 12 - 17 - 25 | .092  | 10 - 13 - 19 | .117 | 6 - 8 - 11  | 22 | 48              | 38 | 39 | 29 | 18 | 13 |  |
|          | 700      | 209      | .091 | 15 - 19 - 27 | .125  | 11 - 15 - 21 | .159 | 7 - 8 - 12  | 27 | 51              | 42 | 43 | 35 | 26 | 21 |  |
|          | 800      | 239      | .119 | 16 - 20 - 28 | .163  | 13 - 16 - 22 | .208 | 7 - 9 - 13  | 31 | 54              | 46 | 46 | 40 | 33 | 28 |  |
|          | 900      | 269      | .150 | 17 - 21 - 30 | .207  | 13 - 17 - 23 | .263 | 8 - 10 - 14 | 34 | 57              | 49 | 50 | 44 | 38 | 34 |  |
|          | 1000     | 299      | .186 | 18 - 22 - 32 | .255  | 14 - 17 - 25 | .325 | 8 - 10 - 14 | 38 | 60              | 52 | 53 | 48 | 44 | 39 |  |
|          | 1100     | 329      | .225 | 19 - 24 - 33 | .309  | 15 - 18 - 26 | .393 | 9 - 11 - 15 | 40 | 62              | 54 | 55 | 52 | 48 | 44 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data**

ENTRAINED JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom<br>Duct     | Neck<br>Vel | Air<br>Flow | 0°   |              | 22.5° |              | 45°  |              | NC | Octave Band, dB |    |    |    |    |    |
|-----------------|-------------|-------------|------|--------------|-------|--------------|------|--------------|----|-----------------|----|----|----|----|----|
|                 |             |             | Pt   | Throw        | Pt    | Throw        | Pt   | Throw        |    |                 |    |    |    |    |    |
| in              | FPM         | CFM         | "WG  | ft           | "WG   | ft           | "WG  | ft           |    |                 |    |    |    |    |    |
| 14"<br>x<br>6"  | 200         | 97          | .007 | 3 - 7 - 16   | .010  | 3 - 6 - 12   | .013 | 1 - 3 - 7    | -  | 24              | -  | 11 | -  | -  | -  |
|                 | 300         | 145         | .017 | 7 - 12 - 22  | .023  | 6 - 9 - 17   | .029 | 3 - 5 - 10   | -  | 34              | 21 | 22 | -  | -  | -  |
|                 | 400         | 193         | .030 | 11 - 16 - 26 | .041  | 8 - 12 - 20  | .052 | 5 - 7 - 12   | 12 | 40              | 29 | 30 | 16 | -  | -  |
|                 | 500         | 242         | .046 | 13 - 20 - 29 | .064  | 10 - 15 - 22 | .081 | 6 - 9 - 13   | 19 | 46              | 35 | 36 | 24 | 11 | -  |
|                 | 600         | 290         | .067 | 16 - 22 - 31 | .092  | 12 - 17 - 24 | .117 | 7 - 10 - 14  | 24 | 50              | 40 | 41 | 31 | 20 | 15 |
|                 | 700         | 338         | .091 | 18 - 24 - 34 | .125  | 14 - 19 - 26 | .159 | 8 - 11 - 15  | 29 | 53              | 44 | 45 | 37 | 28 | 23 |
|                 | 800         | 386         | .119 | 21 - 26 - 36 | .163  | 16 - 20 - 28 | .208 | 9 - 12 - 16  | 33 | 57              | 48 | 49 | 42 | 35 | 29 |
|                 | 900         | 435         | .150 | 22 - 27 - 38 | .207  | 17 - 21 - 30 | .263 | 10 - 12 - 17 | 36 | 59              | 51 | 52 | 46 | 40 | 35 |
|                 | 1000        | 483         | .186 | 23 - 29 - 40 | .255  | 18 - 22 - 31 | .325 | 10 - 13 - 18 | 40 | 62              | 54 | 55 | 50 | 46 | 41 |
| 14"<br>x<br>8"  | 200         | 133         | .007 | 4 - 9 - 19   | .010  | 3 - 7 - 14   | .013 | 2 - 4 - 8    | -  | 26              | 11 | 12 | -  | -  | -  |
|                 | 300         | 200         | .017 | 9 - 14 - 26  | .023  | 7 - 11 - 20  | .029 | 4 - 6 - 12   | -  | 35              | 22 | 23 | -  | -  | -  |
|                 | 400         | 267         | .030 | 12 - 19 - 30 | .041  | 10 - 14 - 23 | .052 | 6 - 8 - 14   | 14 | 42              | 30 | 31 | 17 | -  | -  |
|                 | 500         | 334         | .046 | 16 - 23 - 34 | .064  | 12 - 18 - 26 | .081 | 7 - 10 - 15  | 20 | 47              | 36 | 37 | 25 | 13 | -  |
|                 | 600         | 400         | .067 | 19 - 26 - 37 | .092  | 14 - 20 - 29 | .117 | 8 - 12 - 17  | 26 | 51              | 41 | 42 | 32 | 22 | 16 |
|                 | 700         | 467         | .091 | 22 - 28 - 40 | .125  | 17 - 22 - 31 | .159 | 10 - 13 - 18 | 30 | 55              | 45 | 46 | 38 | 29 | 24 |
|                 | 800         | 534         | .119 | 25 - 30 - 42 | .163  | 19 - 23 - 33 | .208 | 11 - 14 - 19 | 34 | 58              | 49 | 50 | 43 | 36 | 31 |
|                 | 900         | 600         | .150 | 26 - 32 - 45 | .207  | 20 - 25 - 35 | .263 | 12 - 14 - 20 | 38 | 61              | 52 | 53 | 48 | 42 | 37 |
|                 | 1000        | 667         | .186 | 27 - 34 - 47 | .255  | 21 - 26 - 37 | .325 | 12 - 15 - 21 | 41 | 63              | 55 | 56 | 52 | 47 | 42 |
| 20"<br>x<br>3"  | 300         | 90          | .017 | 6 - 9 - 17   | .023  | 5 - 7 - 14   | .029 | 3 - 4 - 8    | -  | 32              | 19 | 20 | -  | -  | -  |
|                 | 400         | 120         | .030 | 8 - 13 - 20  | .041  | 6 - 10 - 16  | .052 | 4 - 6 - 9    | -  | 38              | 27 | 28 | 14 | -  | -  |
|                 | 500         | 150         | .046 | 10 - 16 - 23 | .064  | 8 - 12 - 17  | .081 | 5 - 7 - 10   | 17 | 44              | 33 | 34 | 22 | -  | -  |
|                 | 600         | 180         | .067 | 13 - 17 - 25 | .092  | 10 - 14 - 19 | .117 | 6 - 8 - 11   | 22 | 48              | 38 | 39 | 29 | 18 | 13 |
|                 | 700         | 211         | .091 | 15 - 19 - 27 | .125  | 11 - 15 - 21 | .159 | 7 - 8 - 12   | 27 | 51              | 42 | 43 | 35 | 26 | 21 |
|                 | 800         | 241         | .119 | 16 - 20 - 29 | .163  | 13 - 16 - 22 | .208 | 7 - 9 - 13   | 31 | 54              | 46 | 47 | 40 | 33 | 28 |
|                 | 900         | 271         | .150 | 17 - 21 - 30 | .207  | 14 - 17 - 23 | .263 | 8 - 10 - 14  | 35 | 57              | 49 | 50 | 44 | 38 | 34 |
|                 | 1000        | 301         | .186 | 18 - 23 - 32 | .255  | 14 - 17 - 25 | .325 | 8 - 10 - 14  | 38 | 60              | 52 | 53 | 48 | 44 | 39 |
|                 | 1100        | 331         | .225 | 19 - 24 - 33 | .309  | 15 - 18 - 26 | .393 | 9 - 11 - 15  | 41 | 62              | 54 | 55 | 52 | 48 | 44 |
| 20"<br>x<br>4"  | 300         | 130         | .017 | 7 - 11 - 21  | .023  | 5 - 9 - 16   | .029 | 3 - 5 - 9    | -  | 33              | 20 | 22 | -  | -  | -  |
|                 | 400         | 174         | .030 | 10 - 15 - 24 | .041  | 8 - 12 - 19  | .052 | 5 - 7 - 11   | 12 | 40              | 28 | 29 | 15 | -  | -  |
|                 | 500         | 217         | .046 | 13 - 19 - 27 | .064  | 10 - 15 - 21 | .081 | 6 - 8 - 12   | 18 | 45              | 34 | 35 | 24 | 11 | -  |
|                 | 600         | 261         | .067 | 15 - 21 - 30 | .092  | 12 - 16 - 23 | .117 | 7 - 9 - 13   | 24 | 49              | 39 | 40 | 31 | 20 | 14 |
|                 | 700         | 304         | .091 | 18 - 23 - 32 | .125  | 14 - 18 - 25 | .159 | 8 - 10 - 14  | 29 | 53              | 44 | 44 | 36 | 28 | 22 |
|                 | 800         | 348         | .119 | 20 - 24 - 34 | .163  | 15 - 19 - 27 | .208 | 9 - 11 - 15  | 33 | 56              | 47 | 48 | 41 | 34 | 29 |
|                 | 900         | 391         | .150 | 21 - 26 - 36 | .207  | 16 - 20 - 28 | .263 | 9 - 12 - 16  | 36 | 59              | 50 | 51 | 46 | 40 | 35 |
|                 | 1000        | 434         | .186 | 22 - 27 - 38 | .255  | 17 - 21 - 30 | .325 | 10 - 12 - 17 | 39 | 61              | 53 | 54 | 50 | 45 | 40 |
|                 | 1100        | 478         | .225 | 23 - 28 - 40 | .309  | 18 - 22 - 31 | .393 | 10 - 13 - 18 | 42 | 63              | 56 | 57 | 53 | 50 | 45 |
| 20"<br>x<br>8"  | 200         | 194         | .007 | 5 - 10 - 22  | .010  | 4 - 8 - 17   | .013 | 2 - 5 - 10   | -  | 27              | 13 | 14 | -  | -  | -  |
|                 | 300         | 291         | .017 | 10 - 17 - 31 | .023  | 8 - 13 - 24  | .029 | 5 - 8 - 14   | -  | 37              | 24 | 25 | -  | -  | -  |
|                 | 400         | 388         | .030 | 15 - 22 - 36 | .041  | 12 - 17 - 28 | .052 | 7 - 10 - 16  | 15 | 43              | 32 | 33 | 19 | -  | -  |
|                 | 500         | 485         | .046 | 19 - 28 - 40 | .064  | 14 - 22 - 31 | .081 | 8 - 13 - 18  | 22 | 48              | 38 | 39 | 27 | 14 | -  |
|                 | 600         | 582         | .067 | 22 - 31 - 44 | .092  | 17 - 24 - 34 | .117 | 10 - 14 - 20 | 27 | 53              | 43 | 44 | 34 | 23 | 18 |
|                 | 700         | 678         | .091 | 26 - 34 - 48 | .125  | 20 - 26 - 37 | .159 | 12 - 15 - 22 | 32 | 56              | 47 | 48 | 40 | 31 | 26 |
|                 | 800         | 775         | .119 | 30 - 36 - 51 | .163  | 23 - 28 - 40 | .208 | 13 - 16 - 23 | 36 | 59              | 51 | 51 | 45 | 38 | 32 |
|                 | 900         | 872         | .150 | 31 - 38 - 54 | .207  | 24 - 30 - 42 | .263 | 14 - 17 - 24 | 39 | 62              | 54 | 55 | 49 | 43 | 38 |
|                 | 1000        | 969         | .186 | 33 - 40 - 57 | .255  | 26 - 31 - 44 | .325 | 15 - 18 - 26 | 43 | 65              | 57 | 57 | 53 | 49 | 44 |
| 20"<br>x<br>12" | 150         | 226         | .004 | 3 - 7 - 21   | .006  | 3 - 6 - 16   | .007 | 1 - 3 - 9    | -  | 22              | -  | -  | -  | -  | -  |
|                 | 275         | 414         | .014 | 11 - 19 - 37 | .019  | 9 - 15 - 29  | .025 | 5 - 9 - 17   | -  | 36              | 23 | 25 | -  | -  | -  |
|                 | 350         | 526         | .023 | 16 - 24 - 42 | .031  | 13 - 19 - 33 | .040 | 7 - 11 - 19  | 13 | 42              | 30 | 31 | 15 | -  | -  |
|                 | 425         | 639         | .034 | 20 - 30 - 46 | .046  | 15 - 23 - 36 | .059 | 9 - 13 - 21  | 19 | 47              | 35 | 36 | 23 | -  | -  |
|                 | 500         | 752         | .046 | 23 - 35 - 50 | .064  | 18 - 27 - 39 | .081 | 10 - 16 - 23 | 24 | 50              | 40 | 41 | 29 | 16 | -  |
|                 | 575         | 865         | .061 | 27 - 38 - 54 | .084  | 21 - 30 - 42 | .107 | 12 - 17 - 24 | 28 | 54              | 43 | 44 | 34 | 23 | 17 |
|                 | 650         | 978         | .078 | 30 - 41 - 57 | .108  | 23 - 32 - 45 | .137 | 14 - 18 - 26 | 32 | 56              | 47 | 48 | 39 | 29 | 24 |
|                 | 725         | 1090        | .098 | 34 - 43 - 61 | .134  | 26 - 33 - 47 | .171 | 15 - 19 - 27 | 35 | 59              | 50 | 51 | 43 | 35 | 29 |
|                 | 800         | 1203        | .119 | 37 - 45 - 64 | .163  | 29 - 35 - 49 | .208 | 17 - 20 - 29 | 38 | 61              | 52 | 53 | 47 | 39 | 34 |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data**
**ENTRAINED JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)**

| Nom Duct  | Neck Vel | Air Flow | 0°   |              | 22.5° |              | 45°  |              | NC | Octave Band, dB |    |    |    |    |    |  |
|-----------|----------|----------|------|--------------|-------|--------------|------|--------------|----|-----------------|----|----|----|----|----|--|
|           |          |          | Pt   | Throw        | Pt    | Throw        | Pt   | Throw        |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| in        | FPM      | CFM      | "WG  | ft           | "WG   | ft           | "WG  | ft           |    |                 |    |    |    |    |    |  |
| 30" x 3"  | 200      | 91       | .007 | 3 - 7 - 15   | .010  | 2 - 6 - 12   | .013 | 1 - 3 - 7    | -  | 24              | -  | 11 | -  | -  | -  |  |
|           | 300      | 137      | .017 | 7 - 12 - 22  | .023  | 6 - 9 - 17   | .029 | 3 - 5 - 10   | -  | 33              | 21 | 22 | -  | -  | -  |  |
|           | 400      | 183      | .030 | 10 - 15 - 25 | .041  | 8 - 12 - 19  | .052 | 5 - 7 - 11   | 12 | 40              | 28 | 30 | 15 | -  | -  |  |
|           | 500      | 229      | .046 | 13 - 19 - 28 | .064  | 10 - 15 - 22 | .081 | 6 - 9 - 13   | 19 | 45              | 35 | 36 | 24 | 11 | -  |  |
|           | 600      | 274      | .067 | 15 - 22 - 30 | .092  | 12 - 17 - 24 | .117 | 7 - 10 - 14  | 24 | 50              | 40 | 41 | 31 | 20 | 15 |  |
|           | 700      | 320      | .091 | 18 - 23 - 33 | .125  | 14 - 18 - 25 | .159 | 8 - 10 - 15  | 29 | 53              | 44 | 45 | 37 | 28 | 22 |  |
|           | 800      | 366      | .119 | 20 - 25 - 35 | .163  | 16 - 19 - 27 | .208 | 9 - 11 - 16  | 33 | 56              | 47 | 48 | 42 | 34 | 29 |  |
|           | 900      | 411      | .150 | 22 - 26 - 37 | .207  | 17 - 20 - 29 | .263 | 10 - 12 - 17 | 36 | 59              | 51 | 51 | 46 | 40 | 35 |  |
| 30" x 4"  | 1000     | 457      | .186 | 23 - 28 - 39 | .255  | 18 - 22 - 30 | .325 | 10 - 13 - 18 | 39 | 61              | 54 | 54 | 50 | 45 | 41 |  |
|           | 200      | 132      | .007 | 4 - 9 - 19   | .010  | 3 - 7 - 14   | .013 | 2 - 4 - 8    | -  | 26              | 11 | 12 | -  | -  | -  |  |
|           | 300      | 198      | .017 | 9 - 14 - 26  | .023  | 7 - 11 - 20  | .029 | 4 - 6 - 12   | -  | 35              | 22 | 23 | -  | -  | -  |  |
|           | 400      | 264      | .030 | 12 - 19 - 30 | .041  | 10 - 14 - 23 | .052 | 6 - 8 - 13   | 14 | 42              | 30 | 31 | 17 | -  | -  |  |
|           | 500      | 330      | .046 | 15 - 23 - 33 | .064  | 12 - 18 - 26 | .081 | 7 - 10 - 15  | 20 | 47              | 36 | 37 | 25 | 13 | -  |  |
|           | 600      | 396      | .067 | 19 - 26 - 37 | .092  | 14 - 20 - 28 | .117 | 8 - 12 - 16  | 26 | 51              | 41 | 42 | 32 | 22 | 16 |  |
|           | 700      | 462      | .091 | 22 - 28 - 40 | .125  | 17 - 22 - 31 | .159 | 10 - 13 - 18 | 30 | 55              | 45 | 46 | 38 | 29 | 24 |  |
|           | 800      | 528      | .119 | 24 - 30 - 42 | .163  | 19 - 23 - 33 | .208 | 11 - 13 - 19 | 34 | 58              | 49 | 50 | 43 | 36 | 31 |  |
| 30" x 8"  | 900      | 594      | .150 | 26 - 32 - 45 | .207  | 20 - 25 - 35 | .263 | 12 - 14 - 20 | 38 | 61              | 52 | 53 | 48 | 42 | 37 |  |
|           | 1000     | 660      | .186 | 27 - 33 - 47 | .255  | 21 - 26 - 37 | .325 | 12 - 15 - 21 | 41 | 63              | 55 | 56 | 52 | 47 | 42 |  |
|           | 150      | 221      | .004 | 3 - 7 - 21   | .006  | 3 - 6 - 16   | .007 | 1 - 3 - 9    | -  | 22              | -  | -  | -  | -  | -  |  |
|           | 275      | 405      | .014 | 11 - 19 - 37 | .019  | 8 - 15 - 29  | .025 | 5 - 9 - 17   | -  | 36              | 23 | 24 | -  | -  | -  |  |
|           | 350      | 515      | .023 | 16 - 24 - 42 | .031  | 13 - 19 - 32 | .040 | 7 - 11 - 19  | 13 | 42              | 30 | 31 | 15 | -  | -  |  |
|           | 425      | 626      | .034 | 20 - 29 - 46 | .046  | 15 - 23 - 36 | .059 | 9 - 13 - 21  | 19 | 46              | 35 | 36 | 23 | -  | -  |  |
|           | 500      | 736      | .046 | 23 - 35 - 50 | .064  | 18 - 27 - 39 | .081 | 10 - 16 - 22 | 24 | 50              | 39 | 41 | 29 | 16 | -  |  |
|           | 575      | 847      | .061 | 27 - 38 - 53 | .084  | 21 - 29 - 41 | .107 | 12 - 17 - 24 | 28 | 54              | 43 | 44 | 34 | 23 | 17 |  |
| 30" x 12" | 650      | 957      | .078 | 30 - 40 - 57 | .108  | 23 - 31 - 44 | .137 | 13 - 18 - 26 | 31 | 56              | 47 | 48 | 39 | 29 | 24 |  |
|           | 725      | 1068     | .098 | 33 - 42 - 60 | .134  | 26 - 33 - 47 | .171 | 15 - 19 - 27 | 35 | 59              | 50 | 51 | 43 | 35 | 29 |  |
|           | 800      | 1178     | .119 | 36 - 45 - 63 | .163  | 28 - 35 - 49 | .208 | 16 - 20 - 28 | 38 | 61              | 52 | 53 | 47 | 39 | 34 |  |
|           | 150      | 343      | .004 | 4 - 9 - 26   | .006  | 3 - 7 - 20   | .007 | 2 - 4 - 12   | -  | 24              | -  | -  | -  | -  | -  |  |
|           | 275      | 628      | .014 | 14 - 24 - 46 | .019  | 10 - 18 - 36 | .025 | 6 - 11 - 21  | -  | 38              | 25 | 26 | -  | -  | -  |  |
|           | 350      | 800      | .023 | 20 - 30 - 52 | .031  | 16 - 23 - 40 | .040 | 9 - 14 - 23  | 15 | 44              | 32 | 33 | 17 | -  | -  |  |
|           | 425      | 971      | .034 | 24 - 37 - 57 | .046  | 19 - 28 - 44 | .059 | 11 - 16 - 26 | 21 | 48              | 37 | 38 | 25 | -  | -  |  |
|           | 500      | 1143     | .046 | 29 - 43 - 62 | .064  | 22 - 33 - 48 | .081 | 13 - 19 - 28 | 25 | 52              | 41 | 42 | 31 | 18 | 12 |  |
| 36" x 3"  | 575      | 1314     | .061 | 33 - 47 - 67 | .084  | 26 - 37 - 52 | .107 | 15 - 21 - 30 | 30 | 55              | 45 | 46 | 36 | 25 | 19 |  |
|           | 650      | 1485     | .078 | 37 - 50 - 71 | .108  | 29 - 39 - 55 | .137 | 17 - 23 - 32 | 33 | 58              | 49 | 49 | 41 | 31 | 25 |  |
|           | 725      | 1657     | .098 | 42 - 53 - 75 | .134  | 32 - 41 - 58 | .171 | 19 - 24 - 34 | 37 | 61              | 52 | 52 | 45 | 36 | 31 |  |
|           | 800      | 1828     | .119 | 45 - 56 - 79 | .163  | 35 - 43 - 61 | .208 | 20 - 25 - 35 | 39 | 63              | 54 | 55 | 48 | 41 | 36 |  |
|           | 200      | 110      | .007 | 4 - 8 - 17   | .010  | 3 - 6 - 13   | .013 | 2 - 4 - 8    | -  | 25              | -  | 12 | -  | -  | -  |  |
|           | 300      | 165      | .017 | 8 - 13 - 24  | .023  | 6 - 10 - 18  | .029 | 4 - 6 - 11   | -  | 34              | 21 | 23 | -  | -  | -  |  |
|           | 400      | 220      | .030 | 11 - 17 - 27 | .041  | 9 - 13 - 21  | .052 | 5 - 8 - 12   | 13 | 41              | 29 | 30 | 16 | -  | -  |  |
|           | 500      | 275      | .046 | 14 - 21 - 31 | .064  | 11 - 16 - 24 | .081 | 6 - 10 - 14  | 19 | 46              | 35 | 36 | 25 | 12 | -  |  |
| 36" x 4"  | 600      | 330      | .067 | 17 - 24 - 33 | .092  | 13 - 18 - 26 | .117 | 8 - 11 - 15  | 25 | 50              | 40 | 41 | 32 | 21 | 15 |  |
|           | 700      | 386      | .091 | 20 - 26 - 36 | .125  | 15 - 20 - 28 | .159 | 9 - 11 - 16  | 30 | 54              | 45 | 45 | 37 | 29 | 23 |  |
|           | 800      | 441      | .119 | 22 - 27 - 39 | .163  | 17 - 21 - 30 | .208 | 10 - 12 - 17 | 34 | 57              | 48 | 49 | 42 | 35 | 30 |  |
|           | 900      | 496      | .150 | 24 - 29 - 41 | .207  | 18 - 22 - 32 | .263 | 11 - 13 - 18 | 37 | 60              | 51 | 52 | 47 | 41 | 36 |  |
|           | 1000     | 551      | .186 | 25 - 31 - 43 | .255  | 19 - 24 - 33 | .325 | 11 - 14 - 19 | 40 | 62              | 54 | 55 | 51 | 46 | 41 |  |
|           | 200      | 159      | .007 | 4 - 10 - 20  | .010  | 3 - 7 - 16   | .013 | 2 - 4 - 9    | -  | 26              | 12 | 13 | -  | -  | -  |  |
|           | 300      | 239      | .017 | 10 - 15 - 28 | .023  | 7 - 12 - 22  | .029 | 4 - 7 - 13   | -  | 36              | 23 | 24 | -  | -  | -  |  |
|           | 400      | 318      | .030 | 14 - 20 - 33 | .041  | 11 - 16 - 25 | .052 | 6 - 9 - 15   | 14 | 42              | 31 | 32 | 18 | -  | -  |  |
| 36" x 4"  | 500      | 398      | .046 | 17 - 25 - 37 | .064  | 13 - 20 - 28 | .081 | 8 - 11 - 17  | 21 | 48              | 37 | 38 | 26 | 14 | -  |  |
|           | 600      | 477      | .067 | 20 - 28 - 40 | .092  | 16 - 22 - 31 | .117 | 9 - 13 - 18  | 26 | 52              | 42 | 43 | 33 | 23 | 17 |  |
|           | 700      | 557      | .091 | 24 - 31 - 43 | .125  | 18 - 24 - 34 | .159 | 11 - 14 - 20 | 31 | 55              | 46 | 47 | 39 | 30 | 25 |  |
|           | 800      | 636      | .119 | 27 - 33 - 46 | .163  | 21 - 25 - 36 | .208 | 12 - 15 - 21 | 35 | 59              | 50 | 51 | 44 | 37 | 32 |  |
|           | 900      | 716      | .150 | 28 - 35 - 49 | .207  | 22 - 27 - 38 | .263 | 13 - 16 - 22 | 39 | 61              | 53 | 54 | 48 | 43 | 38 |  |
|           | 1000     | 796      | .186 | 30 - 37 - 52 | .255  | 23 - 28 - 40 | .325 | 13 - 17 - 23 | 42 | 64              | 56 | 57 | 52 | 48 | 43 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

## 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

ENTRAINED JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom<br>Duct     | Neck<br>Vel | Air<br>Flow | 0°   |               | 22.5° |              | 45°  |              | NC | Octave Band, dB |    |    |    |    |    |
|-----------------|-------------|-------------|------|---------------|-------|--------------|------|--------------|----|-----------------|----|----|----|----|----|
|                 |             |             | Pt   | Throw         | Pt    | Throw        | Pt   | Throw        |    | 2               | 3  | 4  | 5  | 6  | 7  |
| in              | FPM         | CFM         | "WG  | ft            | "WG   | ft           | "WG  | ft           |    | 2               | 3  | 4  | 5  | 6  | 7  |
| 36"<br>x<br>8"  | 150         | 266         | .004 | 4 - 8 - 23    | .006  | 3 - 6 - 18   | .007 | 2 - 4 - 10   | -  | 23              | -  | -  | -  | -  | -  |
|                 | 275         | 488         | .014 | 12 - 21 - 41  | .019  | 9 - 16 - 31  | .025 | 5 - 9 - 18   | -  | 37              | 24 | 25 | -  | -  | -  |
|                 | 350         | 621         | .023 | 18 - 27 - 46  | .031  | 14 - 21 - 36 | .040 | 8 - 12 - 21  | 14 | 43              | 30 | 32 | 16 | -  | -  |
|                 | 425         | 754         | .034 | 22 - 32 - 50  | .046  | 17 - 25 - 39 | .059 | 10 - 15 - 23 | 20 | 47              | 36 | 37 | 23 | -  | -  |
|                 | 500         | 887         | .046 | 25 - 38 - 55  | .064  | 20 - 29 - 42 | .081 | 11 - 17 - 25 | 24 | 51              | 40 | 41 | 30 | 17 | 11 |
|                 | 575         | 1020        | .061 | 29 - 42 - 59  | .084  | 23 - 32 - 46 | .107 | 13 - 19 - 26 | 29 | 54              | 44 | 45 | 35 | 24 | 18 |
|                 | 650         | 1154        | .078 | 33 - 44 - 62  | .108  | 25 - 34 - 48 | .137 | 15 - 20 - 28 | 32 | 57              | 47 | 48 | 39 | 30 | 24 |
|                 | 725         | 1287        | .098 | 37 - 47 - 66  | .134  | 28 - 36 - 51 | .171 | 17 - 21 - 30 | 35 | 60              | 50 | 51 | 44 | 35 | 30 |
|                 | 800         | 1420        | .119 | 40 - 49 - 69  | .163  | 31 - 38 - 54 | .208 | 18 - 22 - 31 | 38 | 62              | 53 | 54 | 47 | 40 | 35 |
| 36"<br>x<br>12" | 150         | 413         | .004 | 4 - 10 - 28   | .006  | 3 - 8 - 22   | .007 | 2 - 4 - 13   | -  | 25              | -  | 11 | -  | -  | -  |
|                 | 275         | 757         | .014 | 15 - 26 - 51  | .019  | 12 - 20 - 39 | .025 | 7 - 12 - 23  | -  | 39              | 26 | 27 | -  | -  | -  |
|                 | 350         | 964         | .023 | 22 - 33 - 57  | .031  | 17 - 26 - 44 | .040 | 10 - 15 - 26 | 16 | 45              | 32 | 34 | 18 | -  | -  |
|                 | 425         | 1170        | .034 | 27 - 40 - 63  | .046  | 21 - 31 - 49 | .059 | 12 - 18 - 28 | 21 | 49              | 38 | 39 | 25 | 11 | -  |
|                 | 500         | 1377        | .046 | 32 - 47 - 68  | .064  | 24 - 37 - 53 | .081 | 14 - 21 - 31 | 26 | 53              | 42 | 43 | 31 | 19 | 13 |
|                 | 575         | 1583        | .061 | 36 - 52 - 73  | .084  | 28 - 40 - 57 | .107 | 16 - 23 - 33 | 30 | 56              | 46 | 47 | 37 | 26 | 20 |
|                 | 650         | 1790        | .078 | 41 - 55 - 78  | .108  | 32 - 43 - 60 | .137 | 18 - 25 - 35 | 34 | 59              | 49 | 50 | 41 | 32 | 26 |
|                 | 725         | 1997        | .098 | 46 - 58 - 82  | .134  | 35 - 45 - 64 | .171 | 21 - 26 - 37 | 37 | 62              | 52 | 53 | 45 | 37 | 32 |
|                 | 800         | 2203        | .119 | 50 - 61 - 86  | .163  | 39 - 47 - 67 | .208 | 22 - 27 - 39 | 40 | 64              | 55 | 56 | 49 | 42 | 37 |
| 48"<br>x<br>3"  | 100         | 74          | .002 | 1 - 2 - 9     | .003  | 1 - 2 - 7    | .003 | 0 - 1 - 4    | -  | -               | -  | -  | -  | -  | -  |
|                 | 200         | 148         | .007 | 4 - 9 - 20    | .010  | 3 - 7 - 15   | .013 | 2 - 4 - 9    | -  | 26              | 11 | 13 | -  | -  | -  |
|                 | 300         | 221         | .017 | 9 - 15 - 27   | .023  | 7 - 11 - 21  | .029 | 4 - 7 - 12   | -  | 35              | 23 | 24 | -  | -  | -  |
|                 | 400         | 295         | .030 | 13 - 20 - 32  | .041  | 10 - 15 - 24 | .052 | 6 - 9 - 14   | 14 | 42              | 30 | 32 | 17 | -  | -  |
|                 | 500         | 369         | .046 | 16 - 24 - 35  | .064  | 13 - 19 - 27 | .081 | 7 - 11 - 16  | 21 | 47              | 37 | 38 | 26 | 13 | -  |
|                 | 600         | 443         | .067 | 20 - 27 - 39  | .092  | 15 - 21 - 30 | .117 | 9 - 12 - 17  | 26 | 52              | 42 | 43 | 33 | 22 | 17 |
|                 | 700         | 517         | .091 | 23 - 30 - 42  | .125  | 18 - 23 - 32 | .159 | 10 - 13 - 19 | 31 | 55              | 46 | 47 | 39 | 30 | 24 |
|                 | 800         | 591         | .119 | 26 - 32 - 45  | .163  | 20 - 24 - 35 | .208 | 12 - 14 - 20 | 35 | 58              | 49 | 50 | 44 | 36 | 31 |
|                 | 900         | 664         | .150 | 27 - 34 - 47  | .207  | 21 - 26 - 37 | .263 | 12 - 15 - 21 | 38 | 61              | 53 | 53 | 48 | 42 | 37 |
| 48"<br>x<br>4"  | 100         | 107         | .002 | 1 - 3 - 11    | .003  | 1 - 2 - 9    | .003 | 1 - 1 - 5    | -  | 11              | -  | -  | -  | -  | -  |
|                 | 200         | 213         | .007 | 5 - 11 - 24   | .010  | 4 - 9 - 18   | .013 | 2 - 5 - 11   | -  | 28              | 13 | 14 | -  | -  | -  |
|                 | 300         | 320         | .017 | 11 - 18 - 33  | .023  | 9 - 14 - 25  | .029 | 5 - 8 - 15   | -  | 37              | 24 | 25 | -  | -  | -  |
|                 | 400         | 427         | .030 | 16 - 24 - 38  | .041  | 12 - 18 - 29 | .052 | 7 - 11 - 17  | 16 | 44              | 32 | 33 | 19 | -  | -  |
|                 | 500         | 533         | .046 | 20 - 29 - 42  | .064  | 15 - 23 - 33 | .081 | 9 - 13 - 19  | 22 | 49              | 38 | 39 | 27 | 15 | -  |
|                 | 600         | 640         | .067 | 24 - 33 - 47  | .092  | 18 - 25 - 36 | .117 | 11 - 15 - 21 | 28 | 53              | 43 | 44 | 34 | 24 | 18 |
|                 | 700         | 746         | .091 | 27 - 36 - 50  | .125  | 21 - 28 - 39 | .159 | 12 - 16 - 23 | 32 | 57              | 47 | 48 | 40 | 31 | 26 |
|                 | 800         | 853         | .119 | 31 - 38 - 54  | .163  | 24 - 29 - 42 | .208 | 14 - 17 - 24 | 36 | 60              | 51 | 52 | 45 | 38 | 33 |
|                 | 900         | 960         | .150 | 33 - 40 - 57  | .207  | 25 - 31 - 44 | .263 | 15 - 18 - 26 | 40 | 63              | 54 | 55 | 50 | 44 | 39 |
| 48"<br>x<br>8"  | 150         | 357         | .004 | 4 - 9 - 26    | .006  | 3 - 7 - 20   | .007 | 2 - 4 - 12   | -  | 24              | -  | -  | -  | -  | -  |
|                 | 275         | 654         | .014 | 14 - 24 - 47  | .019  | 11 - 19 - 36 | .025 | 6 - 11 - 21  | -  | 38              | 25 | 26 | -  | -  | -  |
|                 | 350         | 833         | .023 | 21 - 31 - 53  | .031  | 16 - 24 - 41 | .040 | 9 - 14 - 24  | 15 | 44              | 32 | 33 | 17 | -  | -  |
|                 | 425         | 1011        | .034 | 25 - 37 - 58  | .046  | 19 - 29 - 45 | .059 | 11 - 17 - 26 | 21 | 48              | 37 | 38 | 25 | -  | -  |
|                 | 500         | 1189        | .046 | 29 - 44 - 63  | .064  | 23 - 34 - 49 | .081 | 13 - 20 - 29 | 26 | 52              | 42 | 43 | 31 | 18 | 12 |
|                 | 575         | 1368        | .061 | 34 - 48 - 68  | .084  | 26 - 37 - 53 | .107 | 15 - 22 - 31 | 30 | 56              | 45 | 46 | 36 | 25 | 19 |
|                 | 650         | 1546        | .078 | 38 - 51 - 72  | .108  | 30 - 40 - 56 | .137 | 17 - 23 - 33 | 33 | 58              | 49 | 50 | 41 | 31 | 25 |
|                 | 725         | 1725        | .098 | 42 - 54 - 76  | .134  | 33 - 42 - 59 | .171 | 19 - 24 - 34 | 37 | 61              | 52 | 53 | 45 | 37 | 31 |
|                 | 800         | 1903        | .119 | 46 - 57 - 80  | .163  | 36 - 44 - 62 | .208 | 21 - 26 - 36 | 40 | 63              | 54 | 55 | 49 | 41 | 36 |
| 48"<br>x<br>12" | 150         | 554         | .004 | 5 - 12 - 33   | .006  | 4 - 9 - 25   | .007 | 2 - 5 - 15   | -  | 26              | -  | 12 | -  | -  | -  |
|                 | 275         | 1015        | .014 | 17 - 30 - 59  | .019  | 13 - 23 - 45 | .025 | 8 - 14 - 26  | -  | 40              | 27 | 28 | -  | -  | -  |
|                 | 350         | 1292        | .023 | 26 - 38 - 66  | .031  | 20 - 30 - 51 | .040 | 11 - 17 - 30 | 17 | 46              | 34 | 35 | 19 | -  | -  |
|                 | 425         | 1569        | .034 | 31 - 47 - 73  | .046  | 24 - 36 - 56 | .059 | 14 - 21 - 33 | 23 | 50              | 39 | 40 | 27 | 12 | -  |
|                 | 500         | 1846        | .046 | 36 - 55 - 79  | .064  | 28 - 42 - 61 | .081 | 16 - 25 - 36 | 27 | 54              | 43 | 44 | 33 | 20 | 14 |
|                 | 575         | 2123        | .061 | 42 - 60 - 85  | .084  | 33 - 46 - 66 | .107 | 19 - 27 - 38 | 32 | 57              | 47 | 48 | 38 | 27 | 21 |
|                 | 650         | 2399        | .078 | 47 - 64 - 90  | .108  | 37 - 49 - 70 | .137 | 21 - 29 - 41 | 35 | 60              | 51 | 52 | 43 | 33 | 27 |
|                 | 725         | 2676        | .098 | 53 - 67 - 95  | .134  | 41 - 52 - 74 | .171 | 24 - 30 - 43 | 39 | 63              | 54 | 54 | 47 | 38 | 33 |
|                 | 800         | 2953        | .119 | 58 - 71 - 100 | .163  | 45 - 55 - 77 | .208 | 26 - 32 - 45 | 41 | 65              | 56 | 57 | 50 | 43 | 38 |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data**
**FREE JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)**

| Nom Duct<br>in | Neck<br>Vel<br>FPM | Air<br>Flow<br>CFM | 0°        |              | 22.5°     |              | 45°       |             | NC | Octave Band, dB |    |    |    |    |    |  |
|----------------|--------------------|--------------------|-----------|--------------|-----------|--------------|-----------|-------------|----|-----------------|----|----|----|----|----|--|
|                |                    |                    | Pt<br>"WG | Throw<br>ft  | Pt<br>"WG | Throw<br>ft  | Pt<br>"WG | Throw<br>ft |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| 10" x 3"       | 300                | 43                 | .017      | 3 - 5 - 9    | .023      | 2 - 4 - 7    | .029      | 1 - 2 - 4   | -  | 29              | 16 | 17 | -  | -  | -  |  |
|                | 400                | 58                 | .030      | 4 - 6 - 10   | .041      | 3 - 5 - 8    | .052      | 2 - 3 - 4   | -  | 35              | 24 | 25 | 11 | -  | -  |  |
|                | 500                | 72                 | .046      | 5 - 8 - 11   | .064      | 4 - 6 - 9    | .081      | 2 - 3 - 5   | 14 | 40              | 30 | 31 | 19 | -  | -  |  |
|                | 600                | 87                 | .067      | 6 - 9 - 12   | .092      | 5 - 7 - 9    | .117      | 3 - 4 - 5   | 19 | 45              | 35 | 36 | 26 | 15 | -  |  |
|                | 700                | 101                | .091      | 7 - 9 - 13   | .125      | 6 - 7 - 10   | .159      | 3 - 4 - 6   | 24 | 48              | 39 | 40 | 32 | 23 | 18 |  |
|                | 800                | 116                | .119      | 8 - 10 - 14  | .163      | 6 - 8 - 11   | .208      | 4 - 4 - 6   | 28 | 51              | 43 | 43 | 37 | 30 | 25 |  |
|                | 1000               | 145                | .186      | 9 - 11 - 16  | .255      | 7 - 9 - 12   | .325      | 4 - 5 - 7   | 35 | 57              | 49 | 49 | 45 | 41 | 36 |  |
|                | 1100               | 159                | .225      | 9 - 12 - 16  | .309      | 7 - 9 - 13   | .393      | 4 - 5 - 7   | 37 | 59              | 51 | 52 | 49 | 45 | 41 |  |
| 10" x 4"       | 1200               | 173                | .267      | 10 - 12 - 17 | .368      | 8 - 9 - 13   | .468      | 4 - 5 - 8   | 40 | 61              | 54 | 54 | 52 | 50 | 45 |  |
|                | 300                | 63                 | .017      | 3 - 6 - 10   | .023      | 3 - 4 - 8    | .029      | 2 - 2 - 5   | -  | 30              | 17 | 19 | -  | -  | -  |  |
|                | 400                | 84                 | .030      | 5 - 7 - 12   | .041      | 4 - 6 - 9    | .052      | 2 - 3 - 5   | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|                | 500                | 104                | .046      | 6 - 9 - 13   | .064      | 5 - 7 - 10   | .081      | 3 - 4 - 6   | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|                | 600                | 125                | .067      | 7 - 10 - 15  | .092      | 6 - 8 - 11   | .117      | 3 - 5 - 7   | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
|                | 700                | 146                | .091      | 9 - 11 - 16  | .125      | 7 - 9 - 12   | .159      | 4 - 5 - 7   | 25 | 50              | 40 | 41 | 33 | 25 | 19 |  |
|                | 800                | 167                | .119      | 10 - 12 - 17 | .163      | 8 - 9 - 13   | .208      | 4 - 5 - 8   | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|                | 1000               | 209                | .186      | 11 - 13 - 19 | .255      | 8 - 10 - 15  | .325      | 5 - 6 - 8   | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
| 10" x 6"       | 1100               | 230                | .225      | 11 - 14 - 20 | .309      | 9 - 11 - 15  | .393      | 5 - 6 - 9   | 39 | 60              | 53 | 54 | 50 | 47 | 42 |  |
|                | 1200               | 251                | .267      | 12 - 15 - 21 | .368      | 9 - 11 - 16  | .468      | 5 - 7 - 9   | 42 | 62              | 55 | 56 | 54 | 51 | 47 |  |
|                | 300                | 101                | .017      | 4 - 7 - 13   | .023      | 3 - 5 - 10   | .029      | 2 - 3 - 6   | -  | 32              | 19 | 21 | -  | -  | -  |  |
|                | 400                | 135                | .030      | 6 - 9 - 15   | .041      | 5 - 7 - 12   | .052      | 3 - 4 - 7   | 11 | 39              | 27 | 28 | 14 | -  | -  |  |
|                | 500                | 169                | .046      | 8 - 12 - 17  | .064      | 6 - 9 - 13   | .081      | 4 - 5 - 8   | 17 | 44              | 33 | 34 | 23 | -  | -  |  |
|                | 600                | 202                | .067      | 9 - 13 - 18  | .092      | 7 - 10 - 14  | .117      | 4 - 6 - 8   | 23 | 48              | 38 | 39 | 29 | 19 | 13 |  |
|                | 700                | 236                | .091      | 11 - 14 - 20 | .125      | 8 - 11 - 15  | .159      | 5 - 6 - 9   | 27 | 52              | 42 | 43 | 35 | 27 | 21 |  |
|                | 800                | 270                | .119      | 12 - 15 - 21 | .163      | 10 - 12 - 17 | .208      | 6 - 7 - 10  | 31 | 55              | 46 | 47 | 40 | 33 | 28 |  |
| 12" x 4"       | 900                | 304                | .150      | 13 - 16 - 23 | .207      | 10 - 12 - 18 | .263      | 6 - 7 - 10  | 35 | 58              | 49 | 50 | 45 | 39 | 34 |  |
|                | 1000               | 337                | .186      | 14 - 17 - 24 | .255      | 11 - 13 - 18 | .325      | 6 - 8 - 11  | 38 | 60              | 52 | 53 | 49 | 44 | 39 |  |
|                | 1100               | 371                | .225      | 14 - 18 - 25 | .309      | 11 - 14 - 19 | .393      | 7 - 8 - 11  | 41 | 62              | 55 | 56 | 52 | 49 | 44 |  |
|                | 200                | 51                 | .007      | 2 - 4 - 8    | .010      | 1 - 3 - 6    | .013      | 1 - 2 - 4   | -  | 21              | -  | -  | -  | -  | -  |  |
|                | 300                | 76                 | .017      | 4 - 6 - 11   | .023      | 3 - 5 - 9    | .029      | 2 - 3 - 5   | -  | 31              | 18 | 19 | -  | -  | -  |  |
|                | 400                | 102                | .030      | 5 - 8 - 13   | .041      | 4 - 6 - 10   | .052      | 2 - 4 - 6   | -  | 38              | 26 | 27 | 13 | -  | -  |  |
|                | 500                | 127                | .046      | 7 - 10 - 15  | .064      | 5 - 8 - 11   | .081      | 3 - 5 - 7   | 16 | 43              | 32 | 33 | 21 | -  | -  |  |
|                | 600                | 152                | .067      | 8 - 11 - 16  | .092      | 6 - 9 - 12   | .117      | 4 - 5 - 7   | 22 | 47              | 37 | 38 | 28 | 18 | 12 |  |
| 14" x 3"       | 700                | 178                | .091      | 9 - 12 - 17  | .125      | 7 - 9 - 13   | .159      | 4 - 6 - 8   | 26 | 51              | 41 | 42 | 34 | 25 | 20 |  |
|                | 800                | 203                | .119      | 11 - 13 - 19 | .163      | 8 - 10 - 14  | .208      | 5 - 6 - 8   | 30 | 54              | 45 | 46 | 39 | 32 | 27 |  |
|                | 900                | 229                | .150      | 11 - 14 - 20 | .207      | 9 - 11 - 15  | .263      | 5 - 6 - 9   | 34 | 57              | 48 | 49 | 44 | 38 | 33 |  |
|                | 1000               | 254                | .186      | 12 - 15 - 21 | .255      | 9 - 11 - 16  | .325      | 5 - 7 - 9   | 37 | 59              | 51 | 52 | 48 | 43 | 38 |  |
|                | 300                | 62                 | .017      | 3 - 5 - 10   | .023      | 3 - 4 - 8    | .029      | 2 - 2 - 5   | -  | 30              | 17 | 18 | -  | -  | -  |  |
|                | 400                | 83                 | .030      | 5 - 7 - 12   | .041      | 4 - 6 - 9    | .052      | 2 - 3 - 5   | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|                | 500                | 104                | .046      | 6 - 9 - 13   | .064      | 5 - 7 - 10   | .081      | 3 - 4 - 6   | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|                | 600                | 124                | .067      | 7 - 10 - 14  | .092      | 6 - 8 - 11   | .117      | 3 - 5 - 7   | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
| 14" x 4"       | 700                | 145                | .091      | 9 - 11 - 16  | .125      | 7 - 9 - 12   | .159      | 4 - 5 - 7   | 25 | 50              | 40 | 41 | 33 | 24 | 19 |  |
|                | 800                | 166                | .119      | 10 - 12 - 17 | .163      | 7 - 9 - 13   | .208      | 4 - 5 - 8   | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|                | 900                | 186                | .150      | 10 - 13 - 18 | .207      | 8 - 10 - 14  | .263      | 5 - 6 - 8   | 33 | 56              | 47 | 48 | 43 | 37 | 32 |  |
|                | 1000               | 207                | .186      | 11 - 13 - 19 | .255      | 8 - 10 - 14  | .325      | 5 - 6 - 8   | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
|                | 1100               | 228                | .225      | 11 - 14 - 20 | .309      | 9 - 11 - 15  | .393      | 5 - 6 - 9   | 39 | 60              | 53 | 54 | 50 | 47 | 42 |  |
|                | 300                | 90                 | .017      | 4 - 7 - 12   | .023      | 3 - 5 - 10   | .029      | 2 - 3 - 6   | -  | 32              | 19 | 20 | -  | -  | -  |  |
|                | 400                | 120                | .030      | 6 - 9 - 14   | .041      | 5 - 7 - 11   | .052      | 3 - 4 - 6   | -  | 38              | 27 | 28 | 14 | -  | -  |  |
|                | 500                | 150                | .046      | 7 - 11 - 16  | .064      | 6 - 9 - 12   | .081      | 3 - 5 - 7   | 17 | 44              | 33 | 34 | 22 | -  | -  |  |
| 14" x 4"       | 600                | 179                | .067      | 9 - 12 - 17  | .092      | 7 - 10 - 13  | .117      | 4 - 6 - 8   | 22 | 48              | 38 | 39 | 29 | 18 | 13 |  |
|                | 700                | 209                | .091      | 10 - 13 - 19 | .125      | 8 - 10 - 15  | .159      | 5 - 6 - 8   | 27 | 51              | 42 | 43 | 35 | 26 | 21 |  |
|                | 800                | 239                | .119      | 12 - 14 - 20 | .163      | 9 - 11 - 16  | .208      | 5 - 6 - 9   | 31 | 54              | 46 | 46 | 40 | 33 | 28 |  |
|                | 900                | 269                | .150      | 12 - 15 - 21 | .207      | 10 - 12 - 17 | .263      | 6 - 7 - 10  | 34 | 57              | 49 | 50 | 44 | 38 | 34 |  |
|                | 1000               | 299                | .186      | 13 - 16 - 22 | .255      | 10 - 12 - 17 | .325      | 6 - 7 - 10  | 38 | 60              | 52 | 53 | 48 | 44 | 39 |  |
|                | 1100               | 329                | .225      | 14 - 17 - 24 | .309      | 11 - 13 - 18 | .393      | 6 - 8 - 11  | 40 | 62              | 54 | 55 | 52 | 48 | 44 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

## 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

FREE JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct<br>in | Neck Vel<br>FPM | Air Flow<br>CFM | 0°        |              | 22.5°     |              | 45°       |              | NC | Octave Band, dB |    |    |    |    |    |
|----------------|-----------------|-----------------|-----------|--------------|-----------|--------------|-----------|--------------|----|-----------------|----|----|----|----|----|
|                |                 |                 | Pt<br>"WG | Throw<br>ft  | Pt<br>"WG | Throw<br>ft  | Pt<br>"WG | Throw<br>ft  |    | 2               | 3  | 4  | 5  | 6  | 7  |
| 14" x 6"       | 200             | 97              | .007      | 2 - 5 - 11   | .010      | 2 - 4 - 9    | .013      | 1 - 2 - 5    | -  | 24              | -  | 11 | -  | -  | -  |
|                | 300             | 145             | .017      | 5 - 8 - 16   | .023      | 4 - 7 - 12   | .029      | 2 - 4 - 7    | -  | 34              | 21 | 22 | -  | -  | -  |
|                | 400             | 193             | .030      | 7 - 11 - 18  | .041      | 6 - 9 - 14   | .052      | 3 - 5 - 8    | 12 | 40              | 29 | 30 | 16 | -  | -  |
|                | 500             | 242             | .046      | 9 - 14 - 20  | .064      | 7 - 11 - 16  | .081      | 4 - 6 - 9    | 19 | 46              | 35 | 36 | 24 | 11 | -  |
|                | 600             | 290             | .067      | 11 - 16 - 22 | .092      | 9 - 12 - 17  | .117      | 5 - 7 - 10   | 24 | 50              | 40 | 41 | 31 | 20 | 15 |
|                | 700             | 338             | .091      | 13 - 17 - 24 | .125      | 10 - 13 - 19 | .159      | 6 - 8 - 11   | 29 | 53              | 44 | 45 | 37 | 28 | 23 |
|                | 800             | 386             | .119      | 15 - 18 - 26 | .163      | 11 - 14 - 20 | .208      | 7 - 8 - 11   | 33 | 57              | 48 | 49 | 42 | 35 | 29 |
|                | 900             | 435             | .150      | 16 - 19 - 27 | .207      | 12 - 15 - 21 | .263      | 7 - 9 - 12   | 36 | 59              | 51 | 52 | 46 | 40 | 35 |
| 14" x 8"       | 1000            | 483             | .186      | 16 - 20 - 29 | .255      | 13 - 16 - 22 | .325      | 7 - 9 - 13   | 40 | 62              | 54 | 55 | 50 | 46 | 41 |
|                | 200             | 133             | .007      | 3 - 6 - 13   | .010      | 2 - 5 - 10   | .013      | 1 - 3 - 6    | -  | 26              | 11 | 12 | -  | -  | -  |
|                | 300             | 200             | .017      | 6 - 10 - 18  | .023      | 5 - 8 - 14   | .029      | 3 - 4 - 8    | -  | 35              | 22 | 23 | -  | -  | -  |
|                | 400             | 267             | .030      | 9 - 13 - 21  | .041      | 7 - 10 - 16  | .052      | 4 - 6 - 10   | 14 | 42              | 30 | 31 | 17 | -  | -  |
|                | 500             | 334             | .046      | 11 - 16 - 24 | .064      | 9 - 13 - 18  | .081      | 5 - 7 - 11   | 20 | 47              | 36 | 37 | 25 | 13 | -  |
|                | 600             | 400             | .067      | 13 - 18 - 26 | .092      | 10 - 14 - 20 | .117      | 6 - 8 - 12   | 26 | 51              | 41 | 42 | 32 | 22 | 16 |
|                | 700             | 467             | .091      | 15 - 20 - 28 | .125      | 12 - 15 - 22 | .159      | 7 - 9 - 13   | 30 | 55              | 45 | 46 | 38 | 29 | 24 |
|                | 800             | 534             | .119      | 17 - 21 - 30 | .163      | 13 - 16 - 23 | .208      | 8 - 10 - 14  | 34 | 58              | 49 | 50 | 43 | 36 | 31 |
| 20" x 3"       | 900             | 600             | .150      | 18 - 23 - 32 | .207      | 14 - 17 - 25 | .263      | 8 - 10 - 14  | 38 | 61              | 52 | 53 | 48 | 42 | 37 |
|                | 1000            | 667             | .186      | 19 - 24 - 34 | .255      | 15 - 18 - 26 | .325      | 9 - 11 - 15  | 41 | 63              | 55 | 56 | 52 | 47 | 42 |
|                | 300             | 90              | .017      | 4 - 7 - 12   | .023      | 3 - 5 - 10   | .029      | 2 - 3 - 6    | -  | 32              | 19 | 20 | -  | -  | -  |
|                | 400             | 120             | .030      | 6 - 9 - 14   | .041      | 5 - 7 - 11   | .052      | 3 - 4 - 6    | -  | 38              | 27 | 28 | 14 | -  | -  |
|                | 500             | 150             | .046      | 7 - 11 - 16  | .064      | 6 - 9 - 12   | .081      | 3 - 5 - 7    | 17 | 44              | 33 | 34 | 22 | -  | -  |
|                | 600             | 180             | .067      | 9 - 12 - 17  | .092      | 7 - 10 - 14  | .117      | 4 - 6 - 8    | 22 | 48              | 38 | 39 | 29 | 18 | 13 |
|                | 700             | 211             | .091      | 10 - 13 - 19 | .125      | 8 - 10 - 15  | .159      | 5 - 6 - 8    | 27 | 51              | 42 | 43 | 35 | 26 | 21 |
|                | 800             | 241             | .119      | 12 - 14 - 20 | .163      | 9 - 11 - 16  | .208      | 5 - 6 - 9    | 31 | 54              | 46 | 47 | 40 | 33 | 28 |
| 20" x 4"       | 900             | 271             | .150      | 12 - 15 - 21 | .207      | 10 - 12 - 17 | .263      | 6 - 7 - 10   | 35 | 57              | 49 | 50 | 44 | 38 | 34 |
|                | 1000            | 301             | .186      | 13 - 16 - 23 | .255      | 10 - 12 - 17 | .325      | 6 - 7 - 10   | 38 | 60              | 52 | 53 | 48 | 44 | 39 |
|                | 1100            | 331             | .225      | 14 - 17 - 24 | .309      | 11 - 13 - 18 | .393      | 6 - 8 - 11   | 41 | 62              | 54 | 55 | 52 | 48 | 44 |
|                | 300             | 130             | .017      | 5 - 8 - 15   | .023      | 4 - 6 - 12   | .029      | 2 - 4 - 7    | -  | 33              | 20 | 22 | -  | -  | -  |
|                | 400             | 174             | .030      | 7 - 11 - 17  | .041      | 5 - 8 - 13   | .052      | 3 - 5 - 8    | 12 | 40              | 28 | 29 | 15 | -  | -  |
|                | 500             | 217             | .046      | 9 - 13 - 19  | .064      | 7 - 10 - 15  | .081      | 4 - 6 - 9    | 18 | 45              | 34 | 35 | 24 | 11 | -  |
|                | 600             | 261             | .067      | 11 - 15 - 21 | .092      | 8 - 12 - 16  | .117      | 5 - 7 - 9    | 24 | 49              | 39 | 40 | 31 | 20 | 14 |
|                | 700             | 304             | .091      | 12 - 16 - 23 | .125      | 10 - 12 - 18 | .159      | 6 - 7 - 10   | 29 | 53              | 44 | 44 | 36 | 28 | 22 |
| 20" x 8"       | 800             | 348             | .119      | 14 - 17 - 24 | .163      | 11 - 13 - 19 | .208      | 6 - 8 - 11   | 33 | 56              | 47 | 48 | 41 | 34 | 29 |
|                | 900             | 391             | .150      | 15 - 18 - 26 | .207      | 12 - 14 - 20 | .263      | 7 - 8 - 12   | 36 | 59              | 50 | 51 | 46 | 40 | 35 |
|                | 1000            | 434             | .186      | 16 - 19 - 27 | .255      | 12 - 15 - 21 | .325      | 7 - 9 - 12   | 39 | 61              | 53 | 54 | 50 | 45 | 40 |
|                | 1100            | 478             | .225      | 16 - 20 - 28 | .309      | 13 - 16 - 22 | .393      | 7 - 9 - 13   | 42 | 63              | 56 | 57 | 53 | 50 | 45 |
|                | 200             | 194             | .007      | 3 - 7 - 16   | .010      | 3 - 6 - 12   | .013      | 1 - 3 - 7    | -  | 27              | 13 | 14 | -  | -  | -  |
|                | 300             | 291             | .017      | 7 - 12 - 22  | .023      | 6 - 9 - 17   | .029      | 3 - 5 - 10   | -  | 37              | 24 | 25 | -  | -  | -  |
|                | 400             | 388             | .030      | 11 - 16 - 26 | .041      | 8 - 12 - 20  | .052      | 5 - 7 - 12   | 15 | 43              | 32 | 33 | 19 | -  | -  |
|                | 500             | 485             | .046      | 13 - 20 - 29 | .064      | 10 - 15 - 22 | .081      | 6 - 9 - 13   | 22 | 48              | 38 | 39 | 27 | 14 | -  |
| 20" x 12"      | 600             | 582             | .067      | 16 - 22 - 31 | .092      | 12 - 17 - 24 | .117      | 7 - 10 - 14  | 27 | 53              | 43 | 44 | 34 | 23 | 18 |
|                | 700             | 678             | .091      | 19 - 24 - 34 | .125      | 14 - 19 - 26 | .159      | 8 - 11 - 15  | 32 | 56              | 47 | 48 | 40 | 31 | 26 |
|                | 800             | 775             | .119      | 21 - 26 - 36 | .163      | 16 - 20 - 28 | .208      | 9 - 12 - 16  | 36 | 59              | 51 | 51 | 45 | 38 | 32 |
|                | 900             | 872             | .150      | 22 - 27 - 38 | .207      | 17 - 21 - 30 | .263      | 10 - 12 - 17 | 39 | 62              | 54 | 55 | 49 | 43 | 38 |
|                | 1000            | 969             | .186      | 23 - 29 - 40 | .255      | 18 - 22 - 31 | .325      | 11 - 13 - 18 | 43 | 65              | 57 | 57 | 53 | 49 | 44 |
|                | 150             | 226             | .004      | 2 - 5 - 15   | .006      | 2 - 4 - 11   | .007      | 1 - 2 - 7    | -  | 22              | -  | -  | -  | -  | -  |
|                | 275             | 414             | .014      | 8 - 14 - 26  | .019      | 6 - 11 - 20  | .025      | 3 - 6 - 12   | -  | 36              | 23 | 25 | -  | -  | -  |
|                | 350             | 526             | .023      | 12 - 17 - 30 | .031      | 9 - 13 - 23  | .040      | 5 - 8 - 13   | 13 | 42              | 30 | 31 | 15 | -  | -  |
| 20" x 12"      | 425             | 639             | .034      | 14 - 21 - 33 | .046      | 11 - 16 - 25 | .059      | 6 - 9 - 15   | 19 | 47              | 35 | 36 | 23 | -  | -  |
|                | 500             | 752             | .046      | 16 - 25 - 36 | .064      | 13 - 19 - 28 | .081      | 7 - 11 - 16  | 24 | 50              | 40 | 41 | 29 | 16 | -  |
|                | 575             | 865             | .061      | 19 - 27 - 38 | .084      | 15 - 21 - 30 | .107      | 9 - 12 - 17  | 28 | 54              | 43 | 44 | 34 | 23 | 17 |
|                | 650             | 978             | .078      | 21 - 29 - 41 | .108      | 17 - 22 - 31 | .137      | 10 - 13 - 18 | 32 | 56              | 47 | 48 | 39 | 29 | 24 |
|                | 725             | 1090            | .098      | 24 - 30 - 43 | .134      | 19 - 24 - 33 | .171      | 11 - 14 - 19 | 35 | 59              | 50 | 51 | 43 | 35 | 29 |
|                | 800             | 1203            | .119      | 26 - 32 - 45 | .163      | 20 - 25 - 35 | .208      | 12 - 14 - 20 | 38 | 61              | 52 | 53 | 47 | 39 | 34 |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data**
**FREE JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)**

| Nom Duct  | Neck Vel | Air Flow | 0°   |              | 22.5° |              | 45°  |              | NC | Octave Band, dB |    |    |    |    |    |  |
|-----------|----------|----------|------|--------------|-------|--------------|------|--------------|----|-----------------|----|----|----|----|----|--|
|           |          |          | Pt   | Throw        | Pt    | Throw        | Pt   | Throw        |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| in        | FPM      | CFM      | "WG  | ft           | "WG   | ft           | "WG  | ft           |    |                 |    |    |    |    |    |  |
| 30" x 3"  | 200      | 91       | .007 | 2 - 5 - 11   | .010  | 2 - 4 - 8    | .013 | 1 - 2 - 5    | -  | 24              | -  | 11 | -  | -  | -  |  |
|           | 300      | 137      | .017 | 5 - 8 - 15   | .023  | 4 - 6 - 12   | .029 | 2 - 4 - 7    | -  | 33              | 21 | 22 | -  | -  | -  |  |
|           | 400      | 183      | .030 | 7 - 11 - 18  | .041  | 6 - 8 - 14   | .052 | 3 - 5 - 8    | 12 | 40              | 28 | 30 | 15 | -  | -  |  |
|           | 500      | 229      | .046 | 9 - 14 - 20  | .064  | 7 - 11 - 15  | .081 | 4 - 6 - 9    | 19 | 45              | 35 | 36 | 24 | 11 | -  |  |
|           | 600      | 274      | .067 | 11 - 15 - 22 | .092  | 8 - 12 - 17  | .117 | 5 - 7 - 10   | 24 | 50              | 40 | 41 | 31 | 20 | 15 |  |
|           | 700      | 320      | .091 | 13 - 16 - 23 | .125  | 10 - 13 - 18 | .159 | 6 - 7 - 10   | 29 | 53              | 44 | 45 | 37 | 28 | 22 |  |
|           | 800      | 366      | .119 | 14 - 18 - 25 | .163  | 11 - 14 - 19 | .208 | 6 - 8 - 11   | 33 | 56              | 47 | 48 | 42 | 34 | 29 |  |
|           | 900      | 411      | .150 | 15 - 19 - 26 | .207  | 12 - 14 - 20 | .263 | 7 - 8 - 12   | 36 | 59              | 51 | 51 | 46 | 40 | 35 |  |
|           | 1000     | 457      | .186 | 16 - 20 - 28 | .255  | 12 - 15 - 22 | .325 | 7 - 9 - 13   | 39 | 61              | 54 | 54 | 50 | 45 | 41 |  |
| 30" x 4"  | 200      | 132      | .007 | 3 - 6 - 13   | .010  | 2 - 5 - 10   | .013 | 1 - 3 - 6    | -  | 26              | 11 | 12 | -  | -  | -  |  |
|           | 300      | 198      | .017 | 6 - 10 - 18  | .023  | 5 - 8 - 14   | .029 | 3 - 4 - 8    | -  | 35              | 22 | 23 | -  | -  | -  |  |
|           | 400      | 264      | .030 | 9 - 13 - 21  | .041  | 7 - 10 - 16  | .052 | 4 - 6 - 10   | 14 | 42              | 30 | 31 | 17 | -  | -  |  |
|           | 500      | 330      | .046 | 11 - 16 - 24 | .064  | 8 - 13 - 18  | .081 | 5 - 7 - 11   | 20 | 47              | 36 | 37 | 25 | 13 | -  |  |
|           | 600      | 396      | .067 | 13 - 18 - 26 | .092  | 10 - 14 - 20 | .117 | 6 - 8 - 12   | 26 | 51              | 41 | 42 | 32 | 22 | 16 |  |
|           | 700      | 462      | .091 | 15 - 20 - 28 | .125  | 12 - 15 - 22 | .159 | 7 - 9 - 13   | 30 | 55              | 45 | 46 | 38 | 29 | 24 |  |
|           | 800      | 528      | .119 | 17 - 21 - 30 | .163  | 13 - 16 - 23 | .208 | 8 - 10 - 13  | 34 | 58              | 49 | 50 | 43 | 36 | 31 |  |
|           | 900      | 594      | .150 | 18 - 22 - 32 | .207  | 14 - 17 - 25 | .263 | 8 - 10 - 14  | 38 | 61              | 52 | 53 | 48 | 42 | 37 |  |
|           | 1000     | 660      | .186 | 19 - 24 - 33 | .255  | 15 - 18 - 26 | .325 | 9 - 11 - 15  | 41 | 63              | 55 | 56 | 52 | 47 | 42 |  |
| 30" x 8"  | 150      | 221      | .004 | 2 - 5 - 15   | .006  | 2 - 4 - 11   | .007 | 1 - 2 - 7    | -  | 22              | -  | -  | -  | -  | -  |  |
|           | 275      | 405      | .014 | 8 - 13 - 26  | .019  | 6 - 10 - 20  | .025 | 3 - 6 - 12   | -  | 36              | 23 | 24 | -  | -  | -  |  |
|           | 350      | 515      | .023 | 11 - 17 - 30 | .031  | 9 - 13 - 23  | .040 | 5 - 8 - 13   | 13 | 42              | 30 | 31 | 15 | -  | -  |  |
|           | 425      | 626      | .034 | 14 - 21 - 33 | .046  | 11 - 16 - 25 | .059 | 6 - 9 - 15   | 19 | 46              | 35 | 36 | 23 | -  | -  |  |
|           | 500      | 736      | .046 | 16 - 24 - 35 | .064  | 13 - 19 - 27 | .081 | 7 - 11 - 16  | 24 | 50              | 39 | 41 | 29 | 16 | -  |  |
|           | 575      | 847      | .061 | 19 - 27 - 38 | .084  | 15 - 21 - 29 | .107 | 8 - 12 - 17  | 28 | 54              | 43 | 44 | 34 | 23 | 17 |  |
|           | 650      | 957      | .078 | 21 - 28 - 40 | .108  | 16 - 22 - 31 | .137 | 10 - 13 - 18 | 31 | 56              | 47 | 48 | 39 | 29 | 24 |  |
|           | 725      | 1068     | .098 | 24 - 30 - 42 | .134  | 18 - 23 - 33 | .171 | 11 - 14 - 19 | 35 | 59              | 50 | 51 | 43 | 35 | 29 |  |
|           | 800      | 1178     | .119 | 26 - 32 - 45 | .163  | 20 - 24 - 35 | .208 | 12 - 14 - 20 | 38 | 61              | 52 | 53 | 47 | 39 | 34 |  |
| 30" x 12" | 150      | 343      | .004 | 3 - 6 - 18   | .006  | 2 - 5 - 14   | .007 | 1 - 3 - 8    | -  | 24              | -  | -  | -  | -  | -  |  |
|           | 275      | 628      | .014 | 10 - 17 - 33 | .019  | 7 - 13 - 25  | .025 | 4 - 8 - 15   | -  | 38              | 25 | 26 | -  | -  | -  |  |
|           | 350      | 800      | .023 | 14 - 21 - 37 | .031  | 11 - 17 - 28 | .040 | 6 - 10 - 17  | 15 | 44              | 32 | 33 | 17 | -  | -  |  |
|           | 425      | 971      | .034 | 17 - 26 - 41 | .046  | 13 - 20 - 31 | .059 | 8 - 12 - 18  | 21 | 48              | 37 | 38 | 25 | -  | -  |  |
|           | 500      | 1143     | .046 | 20 - 30 - 44 | .064  | 16 - 24 - 34 | .081 | 9 - 14 - 20  | 25 | 52              | 41 | 42 | 31 | 18 | 12 |  |
|           | 575      | 1314     | .061 | 23 - 33 - 47 | .084  | 18 - 26 - 37 | .107 | 11 - 15 - 21 | 30 | 55              | 45 | 46 | 36 | 25 | 19 |  |
|           | 650      | 1485     | .078 | 26 - 35 - 50 | .108  | 20 - 27 - 39 | .137 | 12 - 16 - 23 | 33 | 58              | 49 | 49 | 41 | 31 | 25 |  |
|           | 725      | 1657     | .098 | 29 - 37 - 53 | .134  | 23 - 29 - 41 | .171 | 13 - 17 - 24 | 37 | 61              | 52 | 52 | 45 | 36 | 31 |  |
|           | 800      | 1828     | .119 | 32 - 39 - 56 | .163  | 25 - 30 - 43 | .208 | 14 - 18 - 25 | 39 | 63              | 54 | 55 | 48 | 41 | 36 |  |
| 36" x 3"  | 200      | 110      | .007 | 2 - 6 - 12   | .010  | 2 - 4 - 9    | .013 | 1 - 3 - 5    | -  | 25              | -  | 12 | -  | -  | -  |  |
|           | 300      | 165      | .017 | 6 - 9 - 17   | .023  | 4 - 7 - 13   | .029 | 3 - 4 - 8    | -  | 34              | 21 | 23 | -  | -  | -  |  |
|           | 400      | 220      | .030 | 8 - 12 - 19  | .041  | 6 - 9 - 15   | .052 | 4 - 5 - 9    | 13 | 41              | 29 | 30 | 16 | -  | -  |  |
|           | 500      | 275      | .046 | 10 - 15 - 22 | .064  | 8 - 12 - 17  | .081 | 4 - 7 - 10   | 19 | 46              | 35 | 36 | 25 | 12 | -  |  |
|           | 600      | 330      | .067 | 12 - 17 - 24 | .092  | 9 - 13 - 18  | .117 | 5 - 8 - 11   | 25 | 50              | 40 | 41 | 32 | 21 | 15 |  |
|           | 700      | 386      | .091 | 14 - 18 - 26 | .125  | 11 - 14 - 20 | .159 | 6 - 8 - 11   | 30 | 54              | 45 | 45 | 37 | 29 | 23 |  |
|           | 800      | 441      | .119 | 16 - 19 - 27 | .163  | 12 - 15 - 21 | .208 | 7 - 9 - 12   | 34 | 57              | 48 | 49 | 42 | 35 | 30 |  |
|           | 900      | 496      | .150 | 17 - 20 - 29 | .207  | 13 - 16 - 22 | .263 | 8 - 9 - 13   | 37 | 60              | 51 | 52 | 47 | 41 | 36 |  |
|           | 1000     | 551      | .186 | 18 - 22 - 31 | .255  | 14 - 17 - 24 | .325 | 8 - 10 - 14  | 40 | 62              | 54 | 55 | 51 | 46 | 41 |  |
| 36" x 4"  | 200      | 159      | .007 | 3 - 7 - 14   | .010  | 2 - 5 - 11   | .013 | 1 - 3 - 6    | -  | 26              | 12 | 13 | -  | -  | -  |  |
|           | 300      | 239      | .017 | 7 - 11 - 20  | .023  | 5 - 8 - 16   | .029 | 3 - 5 - 9    | -  | 36              | 23 | 24 | -  | -  | -  |  |
|           | 400      | 318      | .030 | 10 - 14 - 23 | .041  | 7 - 11 - 18  | .052 | 4 - 6 - 10   | 14 | 42              | 31 | 32 | 18 | -  | -  |  |
|           | 500      | 398      | .046 | 12 - 18 - 26 | .064  | 9 - 14 - 20  | .081 | 5 - 8 - 12   | 21 | 48              | 37 | 38 | 26 | 14 | -  |  |
|           | 600      | 477      | .067 | 14 - 20 - 28 | .092  | 11 - 16 - 22 | .117 | 6 - 9 - 13   | 26 | 52              | 42 | 43 | 33 | 23 | 17 |  |
|           | 700      | 557      | .091 | 17 - 22 - 31 | .125  | 13 - 17 - 24 | .159 | 8 - 10 - 14  | 31 | 55              | 46 | 47 | 39 | 30 | 25 |  |
|           | 800      | 636      | .119 | 19 - 23 - 33 | .163  | 15 - 18 - 25 | .208 | 9 - 10 - 15  | 35 | 59              | 50 | 51 | 44 | 37 | 32 |  |
|           | 900      | 716      | .150 | 20 - 25 - 35 | .207  | 16 - 19 - 27 | .263 | 9 - 11 - 16  | 39 | 61              | 53 | 54 | 48 | 43 | 38 |  |
|           | 1000     | 796      | .186 | 21 - 26 - 37 | .255  | 16 - 20 - 28 | .325 | 10 - 12 - 16 | 42 | 64              | 56 | 57 | 52 | 48 | 43 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

## 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

FREE JET AIRFLOW IP DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom<br>Duct     | Neck<br>Vel | Air<br>Flow | 0°   |              | 22.5° |              | 45°  |              | NC | Octave Band, dB |    |    |    |    |    |
|-----------------|-------------|-------------|------|--------------|-------|--------------|------|--------------|----|-----------------|----|----|----|----|----|
|                 |             |             | Pt   | Throw        | Pt    | Throw        | Pt   | Throw        |    |                 |    |    |    |    |    |
| in              | FPM         | CFM         | "WG  | ft           | "WG   | ft           | "WG  | ft           |    | 2               | 3  | 4  | 5  | 6  | 7  |
| 36"<br>x<br>8"  | 150         | 266         | .004 | 3 - 6 - 16   | .006  | 2 - 4 - 12   | .007 | 1 - 3 - 7    | -  | 23              | -  | -  | -  | -  | -  |
|                 | 275         | 488         | .014 | 8 - 15 - 29  | .019  | 7 - 11 - 22  | .025 | 4 - 7 - 13   | -  | 37              | 24 | 25 | -  | -  | -  |
|                 | 350         | 621         | .023 | 13 - 19 - 32 | .031  | 10 - 15 - 25 | .040 | 6 - 8 - 15   | 14 | 43              | 30 | 32 | 16 | -  | -  |
|                 | 425         | 754         | .034 | 15 - 23 - 36 | .046  | 12 - 18 - 28 | .059 | 7 - 10 - 16  | 20 | 47              | 36 | 37 | 23 | -  | -  |
|                 | 500         | 887         | .046 | 18 - 27 - 39 | .064  | 14 - 21 - 30 | .081 | 8 - 12 - 17  | 24 | 51              | 40 | 41 | 30 | 17 | 11 |
|                 | 575         | 1020        | .061 | 21 - 29 - 42 | .084  | 16 - 23 - 32 | .107 | 9 - 13 - 19  | 29 | 54              | 44 | 45 | 35 | 24 | 18 |
|                 | 650         | 1154        | .078 | 23 - 31 - 44 | .108  | 18 - 24 - 34 | .137 | 10 - 14 - 20 | 32 | 57              | 47 | 48 | 39 | 30 | 24 |
|                 | 725         | 1287        | .098 | 26 - 33 - 47 | .134  | 20 - 26 - 36 | .171 | 12 - 15 - 21 | 35 | 60              | 50 | 51 | 44 | 35 | 30 |
|                 | 800         | 1420        | .119 | 28 - 35 - 49 | .163  | 22 - 27 - 38 | .208 | 13 - 16 - 22 | 38 | 62              | 53 | 54 | 47 | 40 | 35 |
| 36"<br>x<br>12" | 150         | 413         | .004 | 3 - 7 - 20   | .006  | 2 - 5 - 16   | .007 | 1 - 3 - 9    | -  | 25              | -  | 11 | -  | -  | -  |
|                 | 275         | 757         | .014 | 11 - 18 - 36 | .019  | 8 - 14 - 28  | .025 | 5 - 8 - 16   | -  | 39              | 26 | 27 | -  | -  | -  |
|                 | 350         | 964         | .023 | 16 - 23 - 40 | .031  | 12 - 18 - 31 | .040 | 7 - 11 - 18  | 16 | 45              | 32 | 34 | 18 | -  | -  |
|                 | 425         | 1170        | .034 | 19 - 28 - 44 | .046  | 15 - 22 - 34 | .059 | 9 - 13 - 20  | 21 | 49              | 38 | 39 | 25 | 11 | -  |
|                 | 500         | 1377        | .046 | 22 - 33 - 48 | .064  | 17 - 26 - 37 | .081 | 10 - 15 - 22 | 26 | 53              | 42 | 43 | 31 | 19 | 13 |
|                 | 575         | 1583        | .061 | 26 - 37 - 52 | .084  | 20 - 28 - 40 | .107 | 12 - 16 - 23 | 30 | 56              | 46 | 47 | 37 | 26 | 20 |
|                 | 650         | 1790        | .078 | 29 - 39 - 55 | .108  | 22 - 30 - 43 | .137 | 13 - 17 - 25 | 34 | 59              | 49 | 50 | 41 | 32 | 26 |
|                 | 725         | 1997        | .098 | 32 - 41 - 58 | .134  | 25 - 32 - 45 | .171 | 15 - 18 - 26 | 37 | 62              | 52 | 53 | 45 | 37 | 32 |
|                 | 800         | 2203        | .119 | 35 - 43 - 61 | .163  | 27 - 33 - 47 | .208 | 16 - 19 - 27 | 40 | 64              | 55 | 56 | 49 | 42 | 37 |
| 48"<br>x<br>3"  | 100         | 74          | .002 | 1 - 2 - 6    | .003  | 1 - 1 - 5    | .003 | 0 - 1 - 3    | -  | -               | -  | -  | -  | -  | -  |
|                 | 200         | 148         | .007 | 3 - 6 - 14   | .010  | 2 - 5 - 11   | .013 | 1 - 3 - 6    | -  | 26              | 11 | 13 | -  | -  | -  |
|                 | 300         | 221         | .017 | 6 - 10 - 19  | .023  | 5 - 8 - 15   | .029 | 3 - 5 - 9    | -  | 35              | 23 | 24 | -  | -  | -  |
|                 | 400         | 295         | .030 | 9 - 14 - 22  | .041  | 7 - 11 - 17  | .052 | 4 - 6 - 10   | 14 | 42              | 30 | 32 | 17 | -  | -  |
|                 | 500         | 369         | .046 | 12 - 17 - 25 | .064  | 9 - 13 - 19  | .081 | 5 - 8 - 11   | 21 | 47              | 37 | 38 | 26 | 13 | -  |
|                 | 600         | 443         | .067 | 14 - 19 - 27 | .092  | 11 - 15 - 21 | .117 | 6 - 9 - 12   | 26 | 52              | 42 | 43 | 33 | 22 | 17 |
|                 | 700         | 517         | .091 | 16 - 21 - 30 | .125  | 13 - 16 - 23 | .159 | 7 - 9 - 13   | 31 | 55              | 46 | 47 | 39 | 30 | 24 |
|                 | 800         | 591         | .119 | 18 - 22 - 32 | .163  | 14 - 17 - 24 | .208 | 8 - 10 - 14  | 35 | 58              | 49 | 50 | 44 | 36 | 31 |
|                 | 900         | 664         | .150 | 19 - 24 - 34 | .207  | 15 - 18 - 26 | .263 | 9 - 11 - 15  | 38 | 61              | 53 | 53 | 48 | 42 | 37 |
| 48"<br>x<br>4"  | 100         | 107         | .002 | 1 - 2 - 8    | .003  | 1 - 2 - 6    | .003 | 0 - 1 - 4    | -  | 11              | -  | -  | -  | -  | -  |
|                 | 200         | 213         | .007 | 3 - 8 - 17   | .010  | 3 - 6 - 13   | .013 | 2 - 4 - 7    | -  | 28              | 13 | 14 | -  | -  | -  |
|                 | 300         | 320         | .017 | 8 - 12 - 23  | .023  | 6 - 10 - 18  | .029 | 4 - 6 - 10   | -  | 37              | 24 | 25 | -  | -  | -  |
|                 | 400         | 427         | .030 | 11 - 17 - 27 | .041  | 9 - 13 - 21  | .052 | 5 - 7 - 12   | 16 | 44              | 32 | 33 | 19 | -  | -  |
|                 | 500         | 533         | .046 | 14 - 21 - 30 | .064  | 11 - 16 - 23 | .081 | 6 - 9 - 14   | 22 | 49              | 38 | 39 | 27 | 15 | -  |
|                 | 600         | 640         | .067 | 17 - 23 - 33 | .092  | 13 - 18 - 25 | .117 | 7 - 10 - 15  | 28 | 53              | 43 | 44 | 34 | 24 | 18 |
|                 | 700         | 746         | .091 | 19 - 25 - 36 | .125  | 15 - 19 - 28 | .159 | 9 - 11 - 16  | 32 | 57              | 47 | 48 | 40 | 31 | 26 |
|                 | 800         | 853         | .119 | 22 - 27 - 38 | .163  | 17 - 21 - 29 | .208 | 10 - 12 - 17 | 36 | 60              | 51 | 52 | 45 | 38 | 33 |
|                 | 900         | 960         | .150 | 23 - 28 - 40 | .207  | 18 - 22 - 31 | .263 | 10 - 13 - 18 | 40 | 63              | 54 | 55 | 50 | 44 | 39 |
| 48"<br>x<br>8"  | 150         | 357         | .004 | 3 - 7 - 19   | .006  | 2 - 5 - 14   | .007 | 1 - 3 - 8    | -  | 24              | -  | -  | -  | -  | -  |
|                 | 275         | 654         | .014 | 10 - 17 - 33 | .019  | 8 - 13 - 26  | .025 | 4 - 8 - 15   | -  | 38              | 25 | 26 | -  | -  | -  |
|                 | 350         | 833         | .023 | 14 - 22 - 38 | .031  | 11 - 17 - 29 | .040 | 7 - 10 - 17  | 15 | 44              | 32 | 33 | 17 | -  | -  |
|                 | 425         | 1011        | .034 | 18 - 26 - 41 | .046  | 14 - 20 - 32 | .059 | 8 - 12 - 19  | 21 | 48              | 37 | 38 | 25 | -  | -  |
|                 | 500         | 1189        | .046 | 21 - 31 - 45 | .064  | 16 - 24 - 35 | .081 | 9 - 14 - 20  | 26 | 52              | 42 | 43 | 31 | 18 | 12 |
|                 | 575         | 1368        | .061 | 24 - 34 - 48 | .084  | 18 - 26 - 37 | .107 | 11 - 15 - 22 | 30 | 56              | 45 | 46 | 36 | 25 | 19 |
|                 | 650         | 1546        | .078 | 27 - 36 - 51 | .108  | 21 - 28 - 40 | .137 | 12 - 16 - 23 | 33 | 58              | 49 | 50 | 41 | 31 | 25 |
|                 | 725         | 1725        | .098 | 30 - 38 - 54 | .134  | 23 - 30 - 42 | .171 | 14 - 17 - 24 | 37 | 61              | 52 | 53 | 45 | 37 | 31 |
|                 | 800         | 1903        | .119 | 33 - 40 - 57 | .163  | 25 - 31 - 44 | .208 | 15 - 18 - 26 | 40 | 63              | 54 | 55 | 49 | 41 | 36 |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.



### 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

#### ENTRAINED JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct        | Neck Vel | Air Flow | 0°   |                  | 22.5° |                 | 45°  |                 | NC | Octave Band, dB |    |    |    |    |    |  |
|-----------------|----------|----------|------|------------------|-------|-----------------|------|-----------------|----|-----------------|----|----|----|----|----|--|
|                 |          |          | Pt   | Throw            | Pt    | Throw           | Pt   | Throw           |    |                 |    |    |    |    |    |  |
|                 |          |          | Pa   | m                | Pa    | m               | Pa   | m               |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| 254<br>x<br>76  | 1.52     | 20       | 4.2  | 1.2 - 2.0 - 3.7  | 5.7   | 1.0 - 1.5 - 2.9 | 7.3  | 0.6 - 0.9 - 1.7 | -  | 29              | 16 | 17 | -  | -  | -  |  |
|                 | 2.03     | 27       | 7.4  | 1.8 - 2.6 - 4.2  | 10.2  | 1.4 - 2.0 - 3.3 | 12.9 | 0.8 - 1.2 - 1.9 | -  | 35              | 24 | 25 | 11 | -  | -  |  |
|                 | 2.54     | 34       | 11.6 | 2.2 - 3.3 - 4.8  | 15.9  | 1.7 - 2.6 - 3.7 | 20.2 | 1.0 - 1.5 - 2.1 | 14 | 40              | 30 | 31 | 19 | -  | -  |  |
|                 | 3.05     | 41       | 16.7 | 2.6 - 3.7 - 5.2  | 22.9  | 2.0 - 2.9 - 4.0 | 29.1 | 1.2 - 1.7 - 2.3 | 19 | 45              | 35 | 36 | 26 | 15 | -  |  |
|                 | 3.56     | 48       | 22.7 | 3.1 - 4.0 - 5.6  | 31.2  | 2.4 - 3.1 - 4.4 | 39.6 | 1.4 - 1.8 - 2.5 | 24 | 48              | 39 | 40 | 32 | 23 | 18 |  |
|                 | 4.06     | 55       | 29.6 | 3.5 - 4.2 - 6.0  | 40.7  | 2.7 - 3.3 - 4.7 | 51.8 | 1.6 - 1.9 - 2.7 | 28 | 51              | 43 | 43 | 37 | 30 | 25 |  |
|                 | 5.08     | 68       | 46.2 | 3.9 - 4.8 - 6.7  | 63.6  | 3.0 - 3.7 - 5.2 | 80.9 | 1.7 - 2.1 - 3.0 | 35 | 57              | 49 | 49 | 45 | 41 | 36 |  |
|                 | 5.59     | 75       | 56.0 | 4.1 - 5.0 - 7.0  | 76.9  | 3.2 - 3.9 - 5.5 | 97.9 | 1.8 - 2.2 - 3.2 | 37 | 59              | 51 | 52 | 49 | 45 | 41 |  |
| 254<br>x<br>102 | 1.52     | 30       | 4.2  | 1.5 - 2.4 - 4.4  | 5.7   | 1.1 - 1.8 - 3.4 | 7.3  | 0.7 - 1.1 - 2.0 | -  | 30              | 17 | 19 | -  | -  | -  |  |
|                 | 2.03     | 39       | 7.4  | 2.1 - 3.2 - 5.1  | 10.2  | 1.6 - 2.5 - 4.0 | 12.9 | 0.9 - 1.4 - 2.3 | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|                 | 2.54     | 49       | 11.6 | 2.6 - 4.0 - 5.7  | 15.9  | 2.0 - 3.1 - 4.4 | 20.2 | 1.2 - 1.8 - 2.6 | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|                 | 3.05     | 59       | 16.7 | 3.2 - 4.4 - 6.3  | 22.9  | 2.5 - 3.4 - 4.8 | 29.1 | 1.4 - 2.0 - 2.8 | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
|                 | 3.56     | 69       | 22.7 | 3.7 - 4.8 - 6.8  | 31.2  | 2.9 - 3.7 - 5.2 | 39.6 | 1.7 - 2.1 - 3.0 | 25 | 50              | 40 | 41 | 33 | 25 | 19 |  |
|                 | 4.06     | 79       | 29.6 | 4.2 - 5.1 - 7.2  | 40.7  | 3.2 - 4.0 - 5.6 | 51.8 | 1.9 - 2.3 - 3.3 | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|                 | 5.08     | 99       | 46.2 | 4.7 - 5.7 - 8.1  | 63.6  | 3.6 - 4.4 - 6.3 | 80.9 | 2.1 - 2.6 - 3.6 | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
|                 | 5.59     | 108      | 56.0 | 4.9 - 6.0 - 8.5  | 76.9  | 3.8 - 4.6 - 6.6 | 97.9 | 2.2 - 2.7 - 3.8 | 39 | 60              | 53 | 54 | 50 | 47 | 42 |  |
| 254<br>x<br>152 | 1.52     | 48       | 4.2  | 1.9 - 3.0 - 5.6  | 5.7   | 1.5 - 2.3 - 4.4 | 7.3  | 0.8 - 1.4 - 2.5 | -  | 32              | 19 | 21 | -  | -  | -  |  |
|                 | 2.03     | 64       | 7.4  | 2.7 - 4.0 - 6.5  | 10.2  | 2.1 - 3.1 - 5.0 | 12.9 | 1.2 - 1.8 - 2.9 | 11 | 39              | 27 | 28 | 14 | -  | -  |  |
|                 | 2.54     | 80       | 11.6 | 3.4 - 5.0 - 7.3  | 15.9  | 2.6 - 3.9 - 5.6 | 20.2 | 1.5 - 2.3 - 3.3 | 17 | 44              | 33 | 34 | 23 | -  | -  |  |
|                 | 3.05     | 95       | 16.7 | 4.0 - 5.6 - 8.0  | 22.9  | 3.1 - 4.4 - 6.2 | 29.1 | 1.8 - 2.5 - 3.6 | 23 | 48              | 38 | 39 | 29 | 19 | 13 |  |
|                 | 3.56     | 111      | 22.7 | 4.7 - 6.1 - 8.6  | 31.2  | 3.6 - 4.7 - 6.7 | 39.6 | 2.1 - 2.7 - 3.9 | 27 | 52              | 42 | 43 | 35 | 27 | 21 |  |
|                 | 4.06     | 127      | 29.6 | 5.3 - 6.5 - 9.2  | 40.7  | 4.1 - 5.0 - 7.1 | 51.8 | 2.4 - 2.9 - 4.1 | 31 | 55              | 46 | 47 | 40 | 33 | 28 |  |
|                 | 4.57     | 143      | 37.5 | 5.6 - 6.9 - 9.7  | 51.5  | 4.4 - 5.3 - 7.5 | 65.5 | 2.5 - 3.1 - 4.4 | 35 | 58              | 49 | 50 | 45 | 39 | 34 |  |
|                 | 5.08     | 159      | 46.2 | 5.9 - 7.3 - 10.3 | 63.6  | 4.6 - 5.6 - 8.0 | 80.9 | 2.7 - 3.3 - 4.6 | 38 | 60              | 52 | 53 | 49 | 44 | 39 |  |
| 305<br>x<br>102 | 1.52     | 24       | 1.9  | 0.7 - 1.6 - 3.5  | 2.5   | 0.6 - 1.3 - 2.7 | 3.2  | 0.3 - 0.7 - 1.6 | -  | 21              | -  | -  | -  | -  | -  |  |
|                 | 1.52     | 36       | 4.2  | 1.6 - 2.6 - 4.9  | 5.7   | 1.3 - 2.0 - 3.8 | 7.3  | 0.7 - 1.2 - 2.2 | -  | 31              | 18 | 19 | -  | -  | -  |  |
|                 | 2.03     | 48       | 7.4  | 2.3 - 3.5 - 5.6  | 10.2  | 1.8 - 2.7 - 4.4 | 12.9 | 1.0 - 1.6 - 2.5 | -  | 38              | 26 | 27 | 13 | -  | -  |  |
|                 | 2.54     | 60       | 11.6 | 2.9 - 4.4 - 6.3  | 15.9  | 2.3 - 3.4 - 4.9 | 20.2 | 1.3 - 2.0 - 2.8 | 16 | 43              | 32 | 33 | 21 | -  | -  |  |
|                 | 3.05     | 72       | 16.7 | 3.5 - 4.9 - 6.9  | 22.9  | 2.7 - 3.8 - 5.3 | 29.1 | 1.6 - 2.2 - 3.1 | 22 | 47              | 37 | 38 | 28 | 18 | 12 |  |
|                 | 3.56     | 84       | 22.7 | 4.1 - 5.3 - 7.5  | 31.2  | 3.2 - 4.1 - 5.8 | 39.6 | 1.8 - 2.4 - 3.4 | 26 | 51              | 41 | 42 | 34 | 25 | 20 |  |
|                 | 4.06     | 96       | 29.6 | 4.6 - 5.6 - 8.0  | 40.7  | 3.6 - 4.4 - 6.2 | 51.8 | 2.1 - 2.5 - 3.6 | 30 | 54              | 45 | 46 | 39 | 32 | 27 |  |
|                 | 4.57     | 108      | 37.5 | 4.9 - 6.0 - 8.4  | 51.5  | 3.8 - 4.6 - 6.5 | 65.5 | 2.2 - 2.7 - 3.8 | 34 | 57              | 48 | 49 | 44 | 38 | 33 |  |
| 356<br>x<br>76  | 1.52     | 29       | 4.2  | 1.5 - 2.4 - 4.4  | 5.7   | 1.1 - 1.8 - 3.4 | 7.3  | 0.7 - 1.1 - 2.0 | -  | 30              | 17 | 18 | -  | -  | -  |  |
|                 | 2.03     | 39       | 7.4  | 2.1 - 3.2 - 5.1  | 10.2  | 1.6 - 2.4 - 3.9 | 12.9 | 0.9 - 1.4 - 2.3 | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|                 | 2.54     | 49       | 11.6 | 2.6 - 3.9 - 5.7  | 15.9  | 2.0 - 3.1 - 4.4 | 20.2 | 1.2 - 1.8 - 2.6 | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|                 | 3.05     | 59       | 16.7 | 3.2 - 4.4 - 6.2  | 22.9  | 2.4 - 3.4 - 4.8 | 29.1 | 1.4 - 2.0 - 2.8 | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
|                 | 3.56     | 68       | 22.7 | 3.7 - 4.8 - 6.7  | 31.2  | 2.9 - 3.7 - 5.2 | 39.6 | 1.7 - 2.1 - 3.0 | 25 | 50              | 40 | 41 | 33 | 24 | 19 |  |
|                 | 4.06     | 78       | 29.6 | 4.2 - 5.1 - 7.2  | 40.7  | 3.2 - 3.9 - 5.6 | 51.8 | 1.9 - 2.3 - 3.2 | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|                 | 4.57     | 88       | 37.5 | 4.4 - 5.4 - 7.6  | 51.5  | 3.4 - 4.2 - 5.9 | 65.5 | 2.0 - 2.4 - 3.4 | 33 | 56              | 47 | 48 | 43 | 37 | 32 |  |
|                 | 5.08     | 98       | 46.2 | 4.6 - 5.7 - 8.0  | 63.6  | 3.6 - 4.4 - 6.2 | 80.9 | 2.1 - 2.6 - 3.6 | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
| 356<br>x<br>102 | 1.52     | 42       | 4.2  | 1.8 - 2.8 - 5.3  | 5.7   | 1.4 - 2.2 - 4.1 | 7.3  | 0.8 - 1.3 - 2.4 | -  | 32              | 19 | 20 | -  | -  | -  |  |
|                 | 2.03     | 56       | 7.4  | 2.5 - 3.8 - 6.1  | 10.2  | 2.0 - 2.9 - 4.7 | 12.9 | 1.1 - 1.7 - 2.8 | -  | 38              | 27 | 28 | 14 | -  | -  |  |
|                 | 2.54     | 71       | 11.6 | 3.2 - 4.7 - 6.8  | 15.9  | 2.4 - 3.7 - 5.3 | 20.2 | 1.4 - 2.1 - 3.1 | 17 | 44              | 33 | 34 | 22 | -  | -  |  |
|                 | 3.05     | 85       | 16.7 | 3.8 - 5.3 - 7.5  | 22.9  | 2.9 - 4.1 - 5.8 | 29.1 | 1.7 - 2.4 - 3.4 | 22 | 48              | 38 | 39 | 29 | 18 | 13 |  |
|                 | 3.56     | 99       | 22.7 | 4.4 - 5.7 - 8.1  | 31.2  | 3.4 - 4.4 - 6.3 | 39.6 | 2.0 - 2.6 - 3.6 | 27 | 51              | 42 | 43 | 35 | 26 | 21 |  |
|                 | 4.06     | 113      | 29.6 | 5.0 - 6.1 - 8.6  | 40.7  | 3.9 - 4.7 - 6.7 | 51.8 | 2.2 - 2.8 - 3.9 | 31 | 54              | 46 | 46 | 40 | 33 | 28 |  |
|                 | 4.57     | 127      | 37.5 | 5.3 - 6.5 - 9.2  | 51.5  | 4.1 - 5.0 - 7.1 | 65.5 | 2.4 - 2.9 - 4.1 | 34 | 57              | 49 | 50 | 44 | 38 | 34 |  |
|                 | 5.08     | 141      | 46.2 | 5.6 - 6.8 - 9.7  | 63.6  | 4.3 - 5.3 - 7.5 | 80.9 | 2.5 - 3.1 - 4.3 | 38 | 60              | 52 | 53 | 48 | 44 | 39 |  |
| 356<br>x<br>102 | 5.59     | 155      | 56.0 | 5.9 - 7.2 - 10.1 | 76.9  | 4.5 - 5.6 - 7.9 | 97.9 | 2.6 - 3.2 - 4.6 | 40 | 62              | 54 | 55 | 52 | 48 | 44 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

## 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

ENTRAINED JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct  | Neck Vel | Air Flow | 0°   |                    | 22.5° |                   | 45°  |                 | NC | Octave Band, dB |    |    |    |    |    |  |
|-----------|----------|----------|------|--------------------|-------|-------------------|------|-----------------|----|-----------------|----|----|----|----|----|--|
|           |          |          | Pt   | Throw              | Pt    | Throw             | Pt   | Throw           |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| mm        | m/s      | L/s      | Pa   | m                  | Pa    | m                 | Pa   | m               |    |                 |    |    |    |    |    |  |
| 356 x 152 | 1.02     | 46       | 1.9  | 1.0 - 2.3 - 4.8    | 2.5   | 0.8 - 1.7 - 3.7   | 3.2  | 0.5 - 1.0 - 2.2 | -  | 24              | -  | 11 | -  | -  | -  |  |
|           | 1.52     | 68       | 4.2  | 2.3 - 3.6 - 6.7    | 5.7   | 1.7 - 2.8 - 5.2   | 7.3  | 1.0 - 1.6 - 3.0 | -  | 34              | 21 | 22 | -  | -  | -  |  |
|           | 2.03     | 91       | 7.4  | 3.2 - 4.8 - 7.8    | 10.2  | 2.5 - 3.7 - 6.0   | 12.9 | 1.4 - 2.2 - 3.5 | 12 | 40              | 29 | 30 | 16 | -  | -  |  |
|           | 2.54     | 114      | 11.6 | 4.0 - 6.0 - 8.7    | 15.9  | 3.1 - 4.7 - 6.7   | 20.2 | 1.8 - 2.7 - 3.9 | 19 | 46              | 35 | 36 | 24 | 11 | -  |  |
|           | 3.05     | 137      | 16.7 | 4.8 - 6.7 - 9.5    | 22.9  | 3.7 - 5.2 - 7.4   | 29.1 | 2.2 - 3.0 - 4.3 | 24 | 50              | 40 | 41 | 31 | 20 | 15 |  |
|           | 3.56     | 160      | 22.7 | 5.6 - 7.3 - 10.3   | 31.2  | 4.4 - 5.6 - 8.0   | 39.6 | 2.5 - 3.3 - 4.6 | 29 | 53              | 44 | 45 | 37 | 28 | 23 |  |
|           | 4.06     | 182      | 29.6 | 6.3 - 7.8 - 11.0   | 40.7  | 4.9 - 6.0 - 8.5   | 51.8 | 2.9 - 3.5 - 4.9 | 33 | 57              | 48 | 49 | 42 | 35 | 29 |  |
|           | 4.57     | 205      | 37.5 | 6.7 - 8.2 - 11.7   | 51.5  | 5.2 - 6.4 - 9.0   | 65.5 | 3.0 - 3.7 - 5.2 | 36 | 59              | 51 | 52 | 46 | 40 | 35 |  |
| 356 x 203 | 5.08     | 228      | 46.2 | 7.1 - 8.7 - 12.3   | 63.6  | 5.5 - 6.7 - 9.5   | 80.9 | 3.2 - 3.9 - 5.5 | 40 | 62              | 54 | 55 | 50 | 46 | 41 |  |
|           | 1.02     | 63       | 1.9  | 1.2 - 2.6 - 5.7    | 2.5   | 0.9 - 2.1 - 4.4   | 3.2  | 0.5 - 1.2 - 2.5 | -  | 26              | 11 | 12 | -  | -  | -  |  |
|           | 1.52     | 94       | 4.2  | 2.6 - 4.2 - 7.9    | 5.7   | 2.1 - 3.3 - 6.1   | 7.3  | 1.2 - 1.9 - 3.6 | -  | 35              | 22 | 23 | -  | -  | -  |  |
|           | 2.03     | 126      | 7.4  | 3.8 - 5.7 - 9.1    | 10.2  | 2.9 - 4.4 - 7.1   | 12.9 | 1.7 - 2.5 - 4.1 | 14 | 42              | 30 | 31 | 17 | -  | -  |  |
|           | 2.54     | 157      | 11.6 | 4.7 - 7.1 - 10.2   | 15.9  | 3.7 - 5.5 - 7.9   | 20.2 | 2.1 - 3.2 - 4.6 | 20 | 47              | 36 | 37 | 25 | 13 | -  |  |
|           | 3.05     | 189      | 16.7 | 5.7 - 7.9 - 11.2   | 22.9  | 4.4 - 6.1 - 8.7   | 29.1 | 2.5 - 3.6 - 5.0 | 26 | 51              | 41 | 42 | 32 | 22 | 16 |  |
|           | 3.56     | 220      | 22.7 | 6.6 - 8.5 - 12.1   | 31.2  | 5.1 - 6.6 - 9.4   | 39.6 | 3.0 - 3.8 - 5.4 | 30 | 55              | 45 | 46 | 38 | 29 | 24 |  |
|           | 4.06     | 252      | 29.6 | 7.5 - 9.1 - 12.9   | 40.7  | 5.8 - 7.1 - 10.0  | 51.8 | 3.4 - 4.1 - 5.8 | 34 | 58              | 49 | 50 | 43 | 36 | 31 |  |
| 508 x 76  | 4.57     | 283      | 37.5 | 7.9 - 9.7 - 13.7   | 51.5  | 6.1 - 7.5 - 10.6  | 65.5 | 3.6 - 4.4 - 6.2 | 38 | 61              | 52 | 53 | 48 | 42 | 37 |  |
|           | 5.08     | 315      | 46.2 | 8.3 - 10.2 - 14.4  | 63.6  | 6.5 - 7.9 - 11.2  | 80.9 | 3.8 - 4.6 - 6.5 | 41 | 63              | 55 | 56 | 52 | 47 | 42 |  |
|           | 1.52     | 43       | 4.2  | 1.8 - 2.9 - 5.3    | 5.7   | 1.4 - 2.2 - 4.1   | 7.3  | 0.8 - 1.3 - 2.4 | -  | 32              | 19 | 20 | -  | -  | -  |  |
|           | 2.03     | 57       | 7.4  | 2.5 - 3.8 - 6.1    | 10.2  | 2.0 - 2.9 - 4.8   | 12.9 | 1.1 - 1.7 - 2.8 | -  | 38              | 27 | 28 | 14 | -  | -  |  |
|           | 2.54     | 71       | 11.6 | 3.2 - 4.8 - 6.9    | 15.9  | 2.5 - 3.7 - 5.3   | 20.2 | 1.4 - 2.1 - 3.1 | 17 | 44              | 33 | 34 | 22 | -  | -  |  |
|           | 3.05     | 85       | 16.7 | 3.8 - 5.3 - 7.5    | 22.9  | 2.9 - 4.1 - 5.8   | 29.1 | 1.7 - 2.4 - 3.4 | 22 | 48              | 38 | 39 | 29 | 18 | 13 |  |
|           | 3.56     | 99       | 22.7 | 4.4 - 5.7 - 8.1    | 31.2  | 3.4 - 4.4 - 6.3   | 39.6 | 2.0 - 2.6 - 3.6 | 27 | 51              | 42 | 43 | 35 | 26 | 21 |  |
|           | 4.06     | 114      | 29.6 | 5.0 - 6.1 - 8.7    | 40.7  | 3.9 - 4.8 - 6.7   | 51.8 | 2.3 - 2.8 - 3.9 | 31 | 54              | 46 | 47 | 40 | 33 | 28 |  |
| 508 x 102 | 4.57     | 128      | 37.5 | 5.3 - 6.5 - 9.2    | 51.5  | 4.1 - 5.0 - 7.1   | 65.5 | 2.4 - 2.9 - 4.1 | 35 | 57              | 49 | 50 | 44 | 38 | 34 |  |
|           | 5.08     | 142      | 46.2 | 5.6 - 6.9 - 9.7    | 63.6  | 4.3 - 5.3 - 7.5   | 80.9 | 2.5 - 3.1 - 4.4 | 38 | 60              | 52 | 53 | 48 | 44 | 39 |  |
|           | 5.59     | 156      | 56.0 | 5.9 - 7.2 - 10.2   | 76.9  | 4.5 - 5.6 - 7.9   | 97.9 | 2.6 - 3.2 - 4.6 | 41 | 62              | 54 | 55 | 52 | 48 | 44 |  |
|           | 1.52     | 62       | 4.2  | 2.1 - 3.4 - 6.4    | 5.7   | 1.7 - 2.7 - 4.9   | 7.3  | 1.0 - 1.5 - 2.9 | -  | 33              | 20 | 22 | -  | -  | -  |  |
|           | 2.03     | 82       | 7.4  | 3.0 - 4.6 - 7.4    | 10.2  | 2.4 - 3.5 - 5.7   | 12.9 | 1.4 - 2.1 - 3.3 | 12 | 40              | 28 | 29 | 15 | -  | -  |  |
|           | 2.54     | 103      | 11.6 | 3.8 - 5.7 - 8.2    | 15.9  | 2.9 - 4.4 - 6.4   | 20.2 | 1.7 - 2.6 - 3.7 | 18 | 45              | 34 | 35 | 24 | 11 | -  |  |
|           | 3.05     | 123      | 16.7 | 4.6 - 6.4 - 9.0    | 22.9  | 3.5 - 4.9 - 7.0   | 29.1 | 2.1 - 2.9 - 4.1 | 24 | 49              | 39 | 40 | 31 | 20 | 14 |  |
|           | 3.56     | 144      | 22.7 | 5.3 - 6.9 - 9.7    | 31.2  | 4.1 - 5.3 - 7.6   | 39.6 | 2.4 - 3.1 - 4.4 | 29 | 53              | 44 | 44 | 36 | 28 | 22 |  |
| 508 x 203 | 4.06     | 164      | 29.6 | 6.0 - 7.4 - 10.4   | 40.7  | 4.7 - 5.7 - 8.1   | 51.8 | 2.7 - 3.3 - 4.7 | 33 | 56              | 47 | 48 | 41 | 34 | 29 |  |
|           | 4.57     | 185      | 37.5 | 6.4 - 7.8 - 11.1   | 51.5  | 4.9 - 6.1 - 8.6   | 65.5 | 2.9 - 3.5 - 5.0 | 36 | 59              | 50 | 51 | 46 | 40 | 35 |  |
|           | 5.08     | 205      | 46.2 | 6.7 - 8.2 - 11.6   | 63.6  | 5.2 - 6.4 - 9.0   | 80.9 | 3.0 - 3.7 - 5.2 | 39 | 61              | 53 | 54 | 50 | 45 | 40 |  |
|           | 5.59     | 226      | 56.0 | 7.1 - 8.6 - 12.2   | 76.9  | 5.5 - 6.7 - 9.5   | 97.9 | 3.2 - 3.9 - 5.5 | 42 | 63              | 56 | 57 | 53 | 50 | 45 |  |
|           | 1.02     | 91       | 1.9  | 1.4 - 3.2 - 6.8    | 2.5   | 1.1 - 2.5 - 5.3   | 3.2  | 0.6 - 1.4 - 3.1 | -  | 27              | 13 | 14 | -  | -  | -  |  |
|           | 1.52     | 137      | 4.2  | 3.2 - 5.1 - 9.5    | 5.7   | 2.5 - 4.0 - 7.4   | 7.3  | 1.4 - 2.3 - 4.3 | -  | 37              | 24 | 25 | -  | -  | -  |  |
|           | 2.03     | 183      | 7.4  | 4.5 - 6.8 - 11.0   | 10.2  | 3.5 - 5.3 - 8.5   | 12.9 | 2.0 - 3.1 - 5.0 | 15 | 43              | 32 | 33 | 19 | -  | -  |  |
|           | 2.54     | 229      | 11.6 | 5.7 - 8.5 - 12.3   | 15.9  | 4.4 - 6.6 - 9.5   | 20.2 | 2.6 - 3.8 - 5.5 | 22 | 48              | 38 | 39 | 27 | 14 | -  |  |
| 508 x 305 | 3.05     | 274      | 16.7 | 6.8 - 9.5 - 13.5   | 22.9  | 5.3 - 7.4 - 10.4  | 29.1 | 3.1 - 4.3 - 6.1 | 27 | 53              | 43 | 44 | 34 | 23 | 18 |  |
|           | 3.56     | 320      | 22.7 | 8.0 - 10.3 - 14.6  | 31.2  | 6.2 - 8.0 - 11.3  | 39.6 | 3.6 - 4.6 - 6.6 | 32 | 56              | 47 | 48 | 40 | 31 | 26 |  |
|           | 4.06     | 366      | 29.6 | 9.0 - 11.0 - 15.6  | 40.7  | 7.0 - 8.5 - 12.1  | 51.8 | 4.0 - 5.0 - 7.0 | 36 | 59              | 51 | 51 | 45 | 38 | 32 |  |
|           | 4.57     | 412      | 37.5 | 9.5 - 11.7 - 16.5  | 51.5  | 7.4 - 9.0 - 12.8  | 65.5 | 4.3 - 5.3 - 7.4 | 39 | 62              | 54 | 55 | 49 | 43 | 38 |  |
|           | 5.08     | 457      | 46.2 | 10.0 - 12.3 - 17.4 | 63.6  | 7.8 - 9.5 - 13.5  | 80.9 | 4.5 - 5.5 - 7.8 | 43 | 65              | 57 | 57 | 53 | 49 | 44 |  |
|           | 0.76     | 106      | 1.0  | 1.0 - 2.2 - 6.4    | 1.4   | 0.8 - 1.7 - 4.9   | 1.8  | 0.4 - 1.0 - 2.9 | -  | 22              | -  | -  | -  | -  | -  |  |
|           | 1.40     | 195      | 3.5  | 3.3 - 5.8 - 11.4   | 4.8   | 2.6 - 4.5 - 8.8   | 6.1  | 1.5 - 2.6 - 5.1 | -  | 36              | 23 | 25 | -  | -  | -  |  |
|           | 1.78     | 248      | 5.7  | 5.0 - 7.4 - 12.8   | 7.8   | 3.8 - 5.8 - 9.9   | 9.9  | 2.2 - 3.3 - 5.8 | 13 | 42              | 30 | 31 | 15 | -  | -  |  |
| 508 x 305 | 2.16     | 302      | 8.4  | 6.0 - 9.0 - 14.1   | 11.5  | 4.7 - 7.0 - 11.0  | 14.6 | 2.7 - 4.1 - 6.4 | 19 | 47              | 35 | 36 | 23 | -  | -  |  |
|           | 2.54     | 355      | 11.6 | 7.1 - 10.6 - 15.3  | 15.9  | 5.5 - 8.2 - 11.9  | 20.2 | 3.2 - 4.8 - 6.9 | 24 | 50              | 40 | 41 | 29 | 16 | -  |  |
|           | 2.92     | 408      | 15.3 | 8.1 - 11.6 - 16.4  | 21.0  | 6.3 - 9.0 - 12.7  | 26.8 | 3.7 - 5.2 - 7.4 | 28 | 54              | 43 | 44 | 34 | 23 | 17 |  |
|           | 3.30     | 461      | 19.5 | 9.2 - 12.4 - 17.5  | 26.9  | 7.1 - 9.6 - 13.5  | 34.2 | 4.1 - 5.6 - 7.9 | 32 | 56              | 47 | 48 | 39 | 29 | 24 |  |
|           | 3.68     | 515      | 24.3 | 10.3 - 13.0 - 18.5 | 33.4  | 8.0 - 10.1 - 14.3 | 42.5 | 4.6 - 5.9 - 8.3 | 35 | 59              | 50 | 51 | 43 | 35 | 29 |  |
|           | 4.06     | 568      | 29.6 | 11.2 - 13.7 - 19.4 | 40.7  | 8.7 - 10.6 - 15.0 | 51.8 | 5.0 - 6.2 - 8.7 | 38 | 61              | 52 | 53 | 47 | 39 | 34 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.



### 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

#### ENTRAINED JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct        | Neck Vel | Air Flow | 0°   |                    | 22.5° |                   | 45°  |                  | NC | Octave Band, dB |    |    |    |    |    |
|-----------------|----------|----------|------|--------------------|-------|-------------------|------|------------------|----|-----------------|----|----|----|----|----|
|                 |          |          | Pt   | Throw              | Pt    | Throw             | Pt   | Throw            |    |                 |    |    |    |    |    |
|                 |          |          | Pa   | m                  | Pa    | m                 | Pa   | m                |    | 2               | 3  | 4  | 5  | 6  | 7  |
| 76<br>x<br>762  | 1.02     | 43       | 1.9  | 1.0 - 2.2 - 4.7    | 2.5   | 0.8 - 1.7 - 3.6   | 3.2  | 0.4 - 1.0 - 2.1  | -  | 24              | -  | 11 | -  | -  | -  |
|                 | 1.52     | 65       | 4.2  | 2.2 - 3.5 - 6.5    | 5.7   | 1.7 - 2.7 - 5.1   | 7.3  | 1.0 - 1.6 - 2.9  | -  | 33              | 21 | 22 | -  | -  | -  |
|                 | 2.03     | 86       | 7.4  | 3.1 - 4.7 - 7.6    | 10.2  | 2.4 - 3.6 - 5.9   | 12.9 | 1.4 - 2.1 - 3.4  | 12 | 40              | 28 | 30 | 15 | -  | -  |
|                 | 2.54     | 108      | 11.6 | 3.9 - 5.9 - 8.4    | 15.9  | 3.0 - 4.5 - 6.5   | 20.2 | 1.8 - 2.6 - 3.8  | 19 | 45              | 35 | 36 | 24 | 11 | -  |
|                 | 3.05     | 129      | 16.7 | 4.7 - 6.5 - 9.3    | 22.9  | 3.6 - 5.1 - 7.2   | 29.1 | 2.1 - 2.9 - 4.2  | 24 | 50              | 40 | 41 | 31 | 20 | 15 |
|                 | 3.56     | 151      | 22.7 | 5.5 - 7.1 - 10.0   | 31.2  | 4.2 - 5.5 - 7.7   | 39.6 | 2.5 - 3.2 - 4.5  | 29 | 53              | 44 | 45 | 37 | 28 | 22 |
|                 | 4.06     | 173      | 29.6 | 6.2 - 7.6 - 10.7   | 40.7  | 4.8 - 5.9 - 8.3   | 51.8 | 2.8 - 3.4 - 4.8  | 33 | 56              | 47 | 48 | 42 | 34 | 29 |
|                 | 4.57     | 194      | 37.5 | 6.5 - 8.0 - 11.3   | 51.5  | 5.1 - 6.2 - 8.8   | 65.5 | 2.9 - 3.6 - 5.1  | 36 | 59              | 51 | 51 | 46 | 40 | 35 |
| 762<br>x<br>102 | 1.02     | 62       | 1.9  | 1.2 - 2.6 - 5.6    | 2.5   | 0.9 - 2.0 - 4.4   | 3.2  | 0.5 - 1.2 - 2.5  | -  | 26              | 11 | 12 | -  | -  | -  |
|                 | 1.52     | 93       | 4.2  | 2.6 - 4.2 - 7.9    | 5.7   | 2.0 - 3.3 - 6.1   | 7.3  | 1.2 - 1.9 - 3.5  | -  | 35              | 22 | 23 | -  | -  | -  |
|                 | 2.03     | 125      | 7.4  | 3.8 - 5.6 - 9.1    | 10.2  | 2.9 - 4.4 - 7.0   | 12.9 | 1.7 - 2.5 - 4.1  | 14 | 42              | 30 | 31 | 17 | -  | -  |
|                 | 2.54     | 156      | 11.6 | 4.7 - 7.0 - 10.2   | 15.9  | 3.6 - 5.5 - 7.9   | 20.2 | 2.1 - 3.2 - 4.6  | 20 | 47              | 36 | 37 | 25 | 13 | -  |
|                 | 3.05     | 187      | 16.7 | 5.6 - 7.9 - 11.1   | 22.9  | 4.4 - 6.1 - 8.6   | 29.1 | 2.5 - 3.5 - 5.0  | 26 | 51              | 41 | 42 | 32 | 22 | 16 |
|                 | 3.56     | 218      | 22.7 | 6.6 - 8.5 - 12.0   | 31.2  | 5.1 - 6.6 - 9.3   | 39.6 | 3.0 - 3.8 - 5.4  | 30 | 55              | 45 | 46 | 38 | 29 | 24 |
|                 | 4.06     | 249      | 29.6 | 7.4 - 9.1 - 12.8   | 40.7  | 5.7 - 7.0 - 10.0  | 51.8 | 3.3 - 4.1 - 5.8  | 34 | 58              | 49 | 50 | 43 | 36 | 31 |
|                 | 4.57     | 280      | 37.5 | 7.9 - 9.6 - 13.6   | 51.5  | 6.1 - 7.5 - 10.6  | 65.5 | 3.5 - 4.3 - 6.1  | 38 | 61              | 52 | 53 | 48 | 42 | 37 |
| 762<br>x<br>203 | 1.02     | 104      | 1.0  | 1.0 - 2.2 - 6.3    | 1.4   | 0.8 - 1.7 - 4.9   | 1.8  | 0.4 - 1.0 - 2.8  | -  | 22              | -  | -  | -  | -  | -  |
|                 | 1.40     | 191      | 3.5  | 3.3 - 5.8 - 11.2   | 4.8   | 2.6 - 4.5 - 8.7   | 6.1  | 1.5 - 2.6 - 5.1  | -  | 36              | 23 | 24 | -  | -  | -  |
|                 | 1.78     | 243      | 5.7  | 4.9 - 7.4 - 12.7   | 7.8   | 3.8 - 5.7 - 9.8   | 9.9  | 2.2 - 3.3 - 5.7  | 13 | 42              | 30 | 31 | 15 | -  | -  |
|                 | 2.16     | 295      | 8.4  | 6.0 - 8.9 - 14.0   | 11.5  | 4.6 - 6.9 - 10.8  | 14.6 | 2.7 - 4.0 - 6.3  | 19 | 46              | 35 | 36 | 23 | -  | -  |
|                 | 2.54     | 348      | 11.6 | 7.0 - 10.5 - 15.2  | 15.9  | 5.4 - 8.1 - 11.8  | 20.2 | 3.2 - 4.7 - 6.8  | 24 | 50              | 39 | 41 | 29 | 16 | -  |
|                 | 2.92     | 400      | 15.3 | 8.1 - 11.5 - 16.3  | 21.0  | 6.2 - 8.9 - 12.6  | 26.8 | 3.6 - 5.2 - 7.3  | 28 | 54              | 43 | 44 | 34 | 23 | 17 |
|                 | 3.30     | 452      | 19.5 | 9.1 - 12.2 - 17.3  | 26.9  | 7.1 - 9.5 - 13.4  | 34.2 | 4.1 - 5.5 - 7.8  | 31 | 56              | 47 | 48 | 39 | 29 | 24 |
|                 | 3.68     | 504      | 24.3 | 10.2 - 12.9 - 18.3 | 33.4  | 7.9 - 10.0 - 14.2 | 42.5 | 4.6 - 5.8 - 8.2  | 35 | 59              | 50 | 51 | 43 | 35 | 29 |
| 762<br>x<br>305 | 1.02     | 162      | 1.0  | 1.2 - 2.8 - 7.9    | 1.4   | 0.9 - 2.1 - 6.1   | 1.8  | 0.6 - 1.2 - 3.5  | -  | 24              | -  | -  | -  | -  | -  |
|                 | 1.40     | 297      | 3.5  | 4.1 - 7.2 - 14.0   | 4.8   | 3.2 - 5.6 - 10.9  | 6.1  | 1.9 - 3.2 - 6.3  | -  | 38              | 25 | 26 | -  | -  | -  |
|                 | 1.78     | 377      | 5.7  | 6.1 - 9.2 - 15.8   | 7.8   | 4.7 - 7.1 - 12.2  | 9.9  | 2.7 - 4.1 - 7.1  | 15 | 44              | 32 | 33 | 17 | -  | -  |
|                 | 2.16     | 458      | 8.4  | 7.4 - 11.1 - 17.4  | 11.5  | 5.7 - 8.6 - 13.5  | 14.6 | 3.3 - 5.0 - 7.8  | 21 | 48              | 37 | 38 | 25 | -  | -  |
|                 | 2.54     | 539      | 11.6 | 8.7 - 13.1 - 18.9  | 15.9  | 6.8 - 10.1 - 14.6 | 20.2 | 3.9 - 5.9 - 8.5  | 25 | 52              | 41 | 42 | 31 | 18 | 12 |
|                 | 2.92     | 620      | 15.3 | 10.0 - 14.3 - 20.3 | 21.0  | 7.8 - 11.1 - 15.7 | 26.8 | 4.5 - 6.4 - 9.1  | 30 | 55              | 45 | 46 | 36 | 25 | 19 |
|                 | 3.30     | 701      | 19.5 | 11.3 - 15.2 - 21.5 | 26.9  | 8.8 - 11.8 - 16.7 | 34.2 | 5.1 - 6.9 - 9.7  | 33 | 58              | 49 | 49 | 41 | 31 | 25 |
|                 | 3.68     | 782      | 24.3 | 12.7 - 16.1 - 22.7 | 33.4  | 9.8 - 12.5 - 17.6 | 42.5 | 5.7 - 7.2 - 10.2 | 37 | 61              | 52 | 52 | 45 | 36 | 31 |
| 914<br>x<br>76  | 1.02     | 52       | 1.9  | 1.1 - 2.4 - 5.1    | 2.5   | 0.8 - 1.9 - 4.0   | 3.2  | 0.5 - 1.1 - 2.3  | -  | 25              | -  | 12 | -  | -  | -  |
|                 | 1.52     | 78       | 4.2  | 2.4 - 3.9 - 7.2    | 5.7   | 1.9 - 3.0 - 5.6   | 7.3  | 1.1 - 1.7 - 3.2  | -  | 34              | 21 | 23 | -  | -  | -  |
|                 | 2.03     | 104      | 7.4  | 3.4 - 5.1 - 8.3    | 10.2  | 2.7 - 4.0 - 6.4   | 12.9 | 1.5 - 2.3 - 3.7  | 13 | 41              | 29 | 30 | 16 | -  | -  |
|                 | 2.54     | 130      | 11.6 | 4.3 - 6.4 - 9.3    | 15.9  | 3.3 - 5.0 - 7.2   | 20.2 | 1.9 - 2.9 - 4.2  | 19 | 46              | 35 | 36 | 25 | 12 | -  |
|                 | 3.05     | 156      | 16.7 | 5.1 - 7.2 - 10.2   | 22.9  | 4.0 - 5.6 - 7.9   | 29.1 | 2.3 - 3.2 - 4.6  | 25 | 50              | 40 | 41 | 32 | 21 | 15 |
|                 | 3.56     | 182      | 22.7 | 6.0 - 7.8 - 11.0   | 31.2  | 4.6 - 6.0 - 8.5   | 39.6 | 2.7 - 3.5 - 4.9  | 30 | 54              | 45 | 45 | 37 | 29 | 23 |
|                 | 4.06     | 208      | 29.6 | 6.8 - 8.3 - 11.7   | 40.7  | 5.2 - 6.4 - 9.1   | 51.8 | 3.0 - 3.7 - 5.3  | 34 | 57              | 48 | 49 | 42 | 35 | 30 |
|                 | 4.57     | 234      | 37.5 | 7.2 - 8.8 - 12.4   | 51.5  | 5.6 - 6.8 - 9.6   | 65.5 | 3.2 - 4.0 - 5.6  | 37 | 60              | 51 | 52 | 47 | 41 | 36 |
| 914<br>x<br>102 | 1.02     | 260      | 46.2 | 7.6 - 9.3 - 13.1   | 63.6  | 5.9 - 7.2 - 10.2  | 80.9 | 3.4 - 4.2 - 5.9  | 40 | 62              | 54 | 55 | 51 | 46 | 41 |
|                 | 1.02     | 75       | 1.9  | 1.3 - 2.9 - 6.2    | 2.5   | 1.0 - 2.2 - 4.8   | 3.2  | 0.6 - 1.3 - 2.8  | -  | 26              | 12 | 13 | -  | -  | -  |
|                 | 1.52     | 113      | 4.2  | 2.9 - 4.6 - 8.6    | 5.7   | 2.2 - 3.6 - 6.7   | 7.3  | 1.3 - 2.1 - 3.9  | -  | 36              | 23 | 24 | -  | -  | -  |
|                 | 2.03     | 150      | 7.4  | 4.1 - 6.2 - 10.0   | 10.2  | 3.2 - 4.8 - 7.7   | 12.9 | 1.9 - 2.8 - 4.5  | 14 | 42              | 31 | 32 | 18 | -  | -  |
|                 | 2.54     | 188      | 11.6 | 5.2 - 7.7 - 11.1   | 15.9  | 4.0 - 6.0 - 8.6   | 20.2 | 2.3 - 3.5 - 5.0  | 21 | 48              | 37 | 38 | 26 | 14 | -  |
|                 | 3.05     | 225      | 16.7 | 6.2 - 8.6 - 12.2   | 22.9  | 4.8 - 6.7 - 9.5   | 29.1 | 2.8 - 3.9 - 5.5  | 26 | 52              | 42 | 43 | 33 | 23 | 17 |
|                 | 3.56     | 263      | 22.7 | 7.2 - 9.3 - 13.2   | 31.2  | 5.6 - 7.2 - 10.2  | 39.6 | 3.2 - 4.2 - 5.9  | 31 | 55              | 46 | 47 | 39 | 30 | 25 |
|                 | 4.06     | 300      | 29.6 | 8.1 - 10.0 - 14.1  | 40.7  | 6.3 - 7.7 - 10.9  | 51.8 | 3.7 - 4.5 - 6.3  | 35 | 59              | 50 | 51 | 44 | 37 | 32 |
| 914<br>x<br>102 | 4.57     | 338      | 37.5 | 8.6 - 10.6 - 15.0  | 51.5  | 6.7 - 8.2 - 11.6  | 65.5 | 3.9 - 4.8 - 6.7  | 39 | 61              | 53 | 54 | 48 | 43 | 38 |
|                 | 5.08     | 375      | 46.2 | 9.1 - 11.1 - 15.8  | 63.6  | 7.1 - 8.6 - 12.2  | 80.9 | 4.1 - 5.0 - 7.1  | 42 | 64              | 56 | 57 | 52 | 48 | 43 |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data**

ENTRAINED JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct         | Neck Vel | Air Flow | 0°                 |                    | 22.5°              |                    | 45°              |                  | NC | Octave Band, dB |    |    |    |    |    |  |
|------------------|----------|----------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|----|-----------------|----|----|----|----|----|--|
|                  |          |          | Pt                 | Throw              | Pt                 | Throw              | Pt               | Throw            |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| mm               | m/s      | L/s      | Pa                 | m                  | Pa                 | m                  | Pa               | m                |    |                 |    |    |    |    |    |  |
| 914<br>x<br>203  | 0.76     | 126      | 1.0                | 1.1 - 2.4 - 6.9    | 1.4                | 0.8 - 1.9 - 5.4    | 1.8              | 0.5 - 1.1 - 3.1  | -  | 23              | -  | -  | -  | -  | -  |  |
|                  | 1.40     | 230      | 3.5                | 3.6 - 6.3 - 12.3   | 4.8                | 2.8 - 4.9 - 9.6    | 6.1              | 1.6 - 2.9 - 5.6  | -  | 37              | 24 | 25 | -  | -  | -  |  |
|                  | 1.78     | 293      | 5.7                | 5.4 - 8.1 - 13.9   | 7.8                | 4.2 - 6.3 - 10.8   | 9.9              | 2.4 - 3.6 - 6.3  | 14 | 43              | 30 | 32 | 16 | -  | -  |  |
|                  | 2.16     | 356      | 8.4                | 6.5 - 9.8 - 15.3   | 11.5               | 5.1 - 7.6 - 11.9   | 14.6             | 2.9 - 4.4 - 6.9  | 20 | 47              | 36 | 37 | 23 | -  | -  |  |
|                  | 2.54     | 419      | 11.6               | 7.7 - 11.5 - 16.6  | 15.9               | 6.0 - 8.9 - 12.9   | 20.2             | 3.5 - 5.2 - 7.5  | 24 | 51              | 40 | 41 | 30 | 17 | 11 |  |
|                  | 2.92     | 482      | 15.3               | 8.8 - 12.6 - 17.9  | 21.0               | 6.9 - 9.8 - 13.8   | 26.8             | 4.0 - 5.7 - 8.0  | 29 | 54              | 44 | 45 | 35 | 24 | 18 |  |
|                  | 3.30     | 544      | 19.5               | 10.0 - 13.4 - 19.0 | 26.9               | 7.7 - 10.4 - 14.7  | 34.2             | 4.5 - 6.0 - 8.5  | 32 | 57              | 47 | 48 | 39 | 30 | 24 |  |
|                  | 3.68     | 607      | 24.3               | 11.2 - 14.2 - 20.0 | 33.4               | 8.6 - 11.0 - 15.5  | 42.5             | 5.0 - 6.4 - 9.0  | 35 | 60              | 50 | 51 | 44 | 35 | 30 |  |
| 4.06             | 670      | 29.6     | 12.2 - 14.9 - 21.1 | 40.7               | 9.4 - 11.5 - 16.3  | 51.8               | 5.5 - 6.7 - 9.5  | 38               | 62 | 53              | 54 | 47 | 40 | 35 |    |  |
| 914<br>x<br>305  | 0.76     | 195      | 1.0                | 1.3 - 3.0 - 8.6    | 1.4                | 1.0 - 2.3 - 6.7    | 1.8              | 0.6 - 1.4 - 3.9  | -  | 25              | -  | 11 | -  | -  | -  |  |
|                  | 1.40     | 357      | 3.5                | 4.5 - 7.9 - 15.4   | 4.8                | 3.5 - 6.1 - 11.9   | 6.1              | 2.0 - 3.6 - 6.9  | -  | 39              | 26 | 27 | -  | -  | -  |  |
|                  | 1.78     | 455      | 5.7                | 6.7 - 10.1 - 17.4  | 7.8                | 5.2 - 7.8 - 13.4   | 9.9              | 3.0 - 4.5 - 7.8  | 16 | 45              | 32 | 34 | 18 | -  | -  |  |
|                  | 2.16     | 552      | 8.4                | 8.1 - 12.2 - 19.1  | 11.5               | 6.3 - 9.5 - 14.8   | 14.6             | 3.7 - 5.5 - 8.6  | 21 | 49              | 38 | 39 | 25 | 11 | -  |  |
|                  | 2.54     | 650      | 11.6               | 9.6 - 14.4 - 20.7  | 15.9               | 7.4 - 11.1 - 16.1  | 20.2             | 4.3 - 6.5 - 9.3  | 26 | 53              | 42 | 43 | 31 | 19 | 13 |  |
|                  | 2.92     | 747      | 15.3               | 11.0 - 15.7 - 22.2 | 21.0               | 8.5 - 12.2 - 17.2  | 26.8             | 5.0 - 7.1 - 10.0 | 30 | 56              | 46 | 47 | 37 | 26 | 20 |  |
|                  | 3.30     | 845      | 19.5               | 12.5 - 16.7 - 23.6 | 26.9               | 9.7 - 13.0 - 18.3  | 34.2             | 5.6 - 7.5 - 10.6 | 34 | 59              | 49 | 50 | 41 | 32 | 26 |  |
|                  | 3.68     | 942      | 24.3               | 13.9 - 17.7 - 25.0 | 33.4               | 10.8 - 13.7 - 19.4 | 42.5             | 6.3 - 7.9 - 11.2 | 37 | 62              | 52 | 53 | 45 | 37 | 32 |  |
| 4.06             | 1040     | 29.6     | 15.1 - 18.5 - 26.2 | 40.7               | 11.7 - 14.4 - 20.3 | 51.8               | 6.8 - 8.3 - 11.8 | 40               | 64 | 55              | 56 | 49 | 42 | 37 |    |  |
| 1219<br>x<br>76  | 0.51     | 35       | 0.5                | 0.3 - 0.7 - 2.8    | 0.6                | 0.2 - 0.5 - 2.2    | 0.8              | 0.1 - 0.3 - 1.3  | -  | -               | -  | -  | -  | -  | -  |  |
|                  | 1.02     | 70       | 1.9                | 1.2 - 2.8 - 6.0    | 2.5                | 1.0 - 2.2 - 4.6    | 3.2              | 0.6 - 1.3 - 2.7  | -  | 26              | 11 | 13 | -  | -  | -  |  |
|                  | 1.52     | 105      | 4.2                | 2.8 - 4.5 - 8.3    | 5.7                | 2.2 - 3.5 - 6.4    | 7.3              | 1.3 - 2.0 - 3.7  | -  | 35              | 23 | 24 | -  | -  | -  |  |
|                  | 2.03     | 139      | 7.4                | 4.0 - 6.0 - 9.6    | 10.2               | 3.1 - 4.6 - 7.4    | 12.9             | 1.8 - 2.7 - 4.3  | 14 | 42              | 30 | 32 | 17 | -  | -  |  |
|                  | 2.54     | 174      | 11.6               | 5.0 - 7.4 - 10.7   | 15.9               | 3.8 - 5.8 - 8.3    | 20.2             | 2.2 - 3.3 - 4.8  | 21 | 47              | 37 | 38 | 26 | 13 | -  |  |
|                  | 3.05     | 209      | 16.7               | 6.0 - 8.3 - 11.8   | 22.9               | 4.6 - 6.4 - 9.1    | 29.1             | 2.7 - 3.7 - 5.3  | 26 | 52              | 42 | 43 | 33 | 22 | 17 |  |
|                  | 3.56     | 244      | 22.7               | 6.9 - 9.0 - 12.7   | 31.2               | 5.4 - 7.0 - 9.8    | 39.6             | 3.1 - 4.0 - 5.7  | 31 | 55              | 46 | 47 | 39 | 30 | 24 |  |
|                  | 4.06     | 279      | 29.6               | 7.8 - 9.6 - 13.6   | 40.7               | 6.1 - 7.4 - 10.5   | 51.8             | 3.5 - 4.3 - 6.1  | 35 | 58              | 49 | 50 | 44 | 36 | 31 |  |
| 4.57             | 314      | 37.5     | 8.3 - 10.2 - 14.4  | 51.5               | 6.4 - 7.9 - 11.2   | 65.5               | 3.7 - 4.6 - 6.5  | 38               | 61 | 53              | 53 | 48 | 42 | 37 |    |  |
| 1219<br>x<br>102 | 0.51     | 50       | 0.5                | 0.4 - 0.8 - 3.3    | 0.6                | 0.3 - 0.6 - 2.6    | 0.8              | 0.2 - 0.4 - 1.5  | -  | 11              | -  | -  | -  | -  | -  |  |
|                  | 1.02     | 101      | 1.9                | 1.5 - 3.3 - 7.2    | 2.5                | 1.2 - 2.6 - 5.5    | 3.2              | 0.7 - 1.5 - 3.2  | -  | 28              | 13 | 14 | -  | -  | -  |  |
|                  | 1.52     | 151      | 4.2                | 3.3 - 5.4 - 10.0   | 5.7                | 2.6 - 4.2 - 7.7    | 7.3              | 1.5 - 2.4 - 4.5  | -  | 37              | 24 | 25 | -  | -  | -  |  |
|                  | 2.03     | 201      | 7.4                | 4.8 - 7.2 - 11.5   | 10.2               | 3.7 - 5.5 - 8.9    | 12.9             | 2.1 - 3.2 - 5.2  | 16 | 44              | 32 | 33 | 19 | -  | -  |  |
|                  | 2.54     | 252      | 11.6               | 6.0 - 8.9 - 12.9   | 15.9               | 4.6 - 6.9 - 10.0   | 20.2             | 2.7 - 4.0 - 5.8  | 22 | 49              | 38 | 39 | 27 | 15 | -  |  |
|                  | 3.05     | 302      | 16.7               | 7.2 - 10.0 - 14.1  | 22.9               | 5.5 - 7.7 - 11.0   | 29.1             | 3.2 - 4.5 - 6.4  | 28 | 53              | 43 | 44 | 34 | 24 | 18 |  |
|                  | 3.56     | 352      | 22.7               | 8.3 - 10.8 - 15.3  | 31.2               | 6.5 - 8.4 - 11.8   | 39.6             | 3.8 - 4.9 - 6.9  | 32 | 57              | 47 | 48 | 40 | 31 | 26 |  |
|                  | 4.06     | 403      | 29.6               | 9.4 - 11.5 - 16.3  | 40.7               | 7.3 - 8.9 - 12.7   | 51.8             | 4.2 - 5.2 - 7.3  | 36 | 60              | 51 | 52 | 45 | 38 | 33 |  |
| 4.57             | 453      | 37.5     | 10.0 - 12.2 - 17.3 | 51.5               | 7.7 - 9.5 - 13.4   | 65.5               | 4.5 - 5.5 - 7.8  | 40               | 63 | 54              | 55 | 50 | 44 | 39 |    |  |
| 1219<br>x<br>203 | 0.76     | 168      | 1.0                | 1.2 - 2.8 - 8.0    | 1.4                | 1.0 - 2.2 - 6.2    | 1.8              | 0.6 - 1.3 - 3.6  | -  | 24              | -  | -  | -  | -  | -  |  |
|                  | 1.40     | 309      | 3.5                | 4.2 - 7.3 - 14.3   | 4.8                | 3.3 - 5.7 - 11.1   | 6.1              | 1.9 - 3.3 - 6.4  | -  | 38              | 25 | 26 | -  | -  | -  |  |
|                  | 1.78     | 393      | 5.7                | 6.2 - 9.4 - 16.1   | 7.8                | 4.8 - 7.2 - 12.5   | 9.9              | 2.8 - 4.2 - 7.3  | 15 | 44              | 32 | 33 | 17 | -  | -  |  |
|                  | 2.16     | 477      | 8.4                | 7.6 - 11.4 - 17.8  | 11.5               | 5.9 - 8.8 - 13.8   | 14.6             | 3.4 - 5.1 - 8.0  | 21 | 48              | 37 | 38 | 25 | -  | -  |  |
|                  | 2.54     | 561      | 11.6               | 8.9 - 13.4 - 19.3  | 15.9               | 6.9 - 10.4 - 14.9  | 20.2             | 4.0 - 6.0 - 8.7  | 26 | 52              | 42 | 43 | 31 | 18 | 12 |  |
|                  | 2.92     | 646      | 15.3               | 10.2 - 14.6 - 20.7 | 21.0               | 7.9 - 11.3 - 16.0  | 26.8             | 4.6 - 6.6 - 9.3  | 30 | 56              | 45 | 46 | 36 | 25 | 19 |  |
|                  | 3.30     | 730      | 19.5               | 11.6 - 15.5 - 22.0 | 26.9               | 9.0 - 12.0 - 17.0  | 34.2             | 5.2 - 7.0 - 9.9  | 33 | 58              | 49 | 50 | 41 | 31 | 25 |  |
|                  | 3.68     | 814      | 24.3               | 12.9 - 16.4 - 23.2 | 33.4               | 10.0 - 12.7 - 18.0 | 42.5             | 5.8 - 7.4 - 10.4 | 37 | 61              | 52 | 53 | 45 | 37 | 31 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.



### 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

FREE JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct        | Neck Vel | Air Flow | 0°   |                 | 22.5° |                 | 45°  |                 | NC | Octave Band, dB |    |    |    |    |    |  |
|-----------------|----------|----------|------|-----------------|-------|-----------------|------|-----------------|----|-----------------|----|----|----|----|----|--|
|                 |          |          | Pt   | Throw           | Pt    | Throw           | Pt   | Throw           |    |                 |    |    |    |    |    |  |
|                 |          |          | Pa   | m               | Pa    | m               | Pa   | m               |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| 254<br>x<br>76  | 1.52     | 20       | 4.2  | 0.9 - 1.4 - 2.6 | 5.7   | 0.7 - 1.1 - 2.0 | 7.3  | 0.4 - 0.6 - 1.2 | -  | 29              | 16 | 17 | -  | -  | -  |  |
|                 | 2.03     | 27       | 7.4  | 1.2 - 1.9 - 3.0 | 10.2  | 1.0 - 1.4 - 2.3 | 12.9 | 0.6 - 0.8 - 1.4 | -  | 35              | 24 | 25 | 11 | -  | -  |  |
|                 | 2.54     | 34       | 11.6 | 1.6 - 2.3 - 3.4 | 15.9  | 1.2 - 1.8 - 2.6 | 20.2 | 0.7 - 1.0 - 1.5 | 14 | 40              | 30 | 31 | 19 | -  | -  |  |
|                 | 3.05     | 41       | 16.7 | 1.9 - 2.6 - 3.7 | 22.9  | 1.4 - 2.0 - 2.9 | 29.1 | 0.8 - 1.2 - 1.7 | 19 | 45              | 35 | 36 | 26 | 15 | -  |  |
|                 | 3.56     | 48       | 22.7 | 2.2 - 2.8 - 4.0 | 31.2  | 1.7 - 2.2 - 3.1 | 39.6 | 1.0 - 1.3 - 1.8 | 24 | 48              | 39 | 40 | 32 | 23 | 18 |  |
|                 | 4.06     | 55       | 29.6 | 2.5 - 3.0 - 4.2 | 40.7  | 1.9 - 2.3 - 3.3 | 51.8 | 1.1 - 1.4 - 1.9 | 28 | 51              | 43 | 43 | 37 | 30 | 25 |  |
|                 | 5.08     | 68       | 46.2 | 2.7 - 3.4 - 4.8 | 63.6  | 2.1 - 2.6 - 3.7 | 80.9 | 1.2 - 1.5 - 2.1 | 35 | 57              | 49 | 49 | 45 | 41 | 36 |  |
|                 | 5.59     | 75       | 56.0 | 2.9 - 3.5 - 5.0 | 76.9  | 2.2 - 2.7 - 3.9 | 97.9 | 1.3 - 1.6 - 2.2 | 37 | 59              | 51 | 52 | 49 | 45 | 41 |  |
| 254<br>x<br>102 | 1.52     | 30       | 4.2  | 1.0 - 1.7 - 3.1 | 5.7   | 0.8 - 1.3 - 2.4 | 7.3  | 0.5 - 0.8 - 1.4 | -  | 30              | 17 | 19 | -  | -  | -  |  |
|                 | 2.03     | 39       | 7.4  | 1.5 - 2.2 - 3.6 | 10.2  | 1.2 - 1.7 - 2.8 | 12.9 | 0.7 - 1.0 - 1.6 | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|                 | 2.54     | 49       | 11.6 | 1.9 - 2.8 - 4.0 | 15.9  | 1.4 - 2.2 - 3.1 | 20.2 | 0.8 - 1.3 - 1.8 | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|                 | 3.05     | 59       | 16.7 | 2.2 - 3.1 - 4.4 | 22.9  | 1.7 - 2.4 - 3.4 | 29.1 | 1.0 - 1.4 - 2.0 | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
|                 | 3.56     | 69       | 22.7 | 2.6 - 3.4 - 4.8 | 31.2  | 2.0 - 2.6 - 3.7 | 39.6 | 1.2 - 1.5 - 2.1 | 25 | 50              | 40 | 41 | 33 | 25 | 19 |  |
|                 | 4.06     | 79       | 29.6 | 2.9 - 3.6 - 5.1 | 40.7  | 2.3 - 2.8 - 4.0 | 51.8 | 1.3 - 1.6 - 2.3 | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|                 | 5.08     | 99       | 46.2 | 3.3 - 4.0 - 5.7 | 63.6  | 2.6 - 3.1 - 4.4 | 80.9 | 1.5 - 1.8 - 2.6 | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
|                 | 5.59     | 108      | 56.0 | 3.5 - 4.2 - 6.0 | 76.9  | 2.7 - 3.3 - 4.6 | 97.9 | 1.6 - 1.9 - 2.7 | 39 | 60              | 53 | 54 | 50 | 47 | 42 |  |
| 254<br>x<br>152 | 1.52     | 48       | 4.2  | 1.3 - 2.1 - 4.0 | 5.7   | 1.0 - 1.7 - 3.1 | 7.3  | 0.6 - 1.0 - 1.8 | -  | 32              | 19 | 21 | -  | -  | -  |  |
|                 | 2.03     | 64       | 7.4  | 1.9 - 2.8 - 4.6 | 10.2  | 1.5 - 2.2 - 3.6 | 12.9 | 0.9 - 1.3 - 2.1 | 11 | 39              | 27 | 28 | 14 | -  | -  |  |
|                 | 2.54     | 80       | 11.6 | 2.4 - 3.6 - 5.1 | 15.9  | 1.8 - 2.8 - 4.0 | 20.2 | 1.1 - 1.6 - 2.3 | 17 | 44              | 33 | 34 | 23 | -  | -  |  |
|                 | 3.05     | 95       | 16.7 | 2.8 - 4.0 - 5.6 | 22.9  | 2.2 - 3.1 - 4.4 | 29.1 | 1.3 - 1.8 - 2.5 | 23 | 48              | 38 | 39 | 29 | 19 | 13 |  |
|                 | 3.56     | 111      | 22.7 | 3.3 - 4.3 - 6.1 | 31.2  | 2.6 - 3.3 - 4.7 | 39.6 | 1.5 - 1.9 - 2.7 | 27 | 52              | 42 | 43 | 35 | 27 | 21 |  |
|                 | 4.06     | 127      | 29.6 | 3.7 - 4.6 - 6.5 | 40.7  | 2.9 - 3.6 - 5.0 | 51.8 | 1.7 - 2.1 - 2.9 | 31 | 55              | 46 | 47 | 40 | 33 | 28 |  |
|                 | 4.57     | 143      | 37.5 | 4.0 - 4.9 - 6.9 | 51.5  | 3.1 - 3.8 - 5.3 | 65.5 | 1.8 - 2.2 - 3.1 | 35 | 58              | 49 | 50 | 45 | 39 | 34 |  |
|                 | 5.08     | 159      | 46.2 | 4.2 - 5.1 - 7.3 | 63.6  | 3.2 - 4.0 - 5.6 | 80.9 | 1.9 - 2.3 - 3.3 | 38 | 60              | 52 | 53 | 49 | 44 | 39 |  |
| 305<br>x<br>102 | 1.52     | 24       | 1.9  | 0.5 - 1.2 - 2.5 | 2.5   | 0.4 - 0.9 - 1.9 | 3.2  | 0.2 - 0.5 - 1.1 | -  | 21              | -  | -  | -  | -  | -  |  |
|                 | 1.52     | 36       | 4.2  | 1.2 - 1.9 - 3.4 | 5.7   | 0.9 - 1.4 - 2.7 | 7.3  | 0.5 - 0.8 - 1.6 | -  | 31              | 18 | 19 | -  | -  | -  |  |
|                 | 2.03     | 48       | 7.4  | 1.6 - 2.5 - 4.0 | 10.2  | 1.3 - 1.9 - 3.1 | 12.9 | 0.7 - 1.1 - 1.8 | -  | 38              | 26 | 27 | 13 | -  | -  |  |
|                 | 2.54     | 60       | 11.6 | 2.1 - 3.1 - 4.5 | 15.9  | 1.6 - 2.4 - 3.5 | 20.2 | 0.9 - 1.4 - 2.0 | 16 | 43              | 32 | 33 | 21 | -  | -  |  |
|                 | 3.05     | 72       | 16.7 | 2.5 - 3.4 - 4.9 | 22.9  | 1.9 - 2.7 - 3.8 | 29.1 | 1.1 - 1.6 - 2.2 | 22 | 47              | 37 | 38 | 28 | 18 | 12 |  |
|                 | 3.56     | 84       | 22.7 | 2.9 - 3.7 - 5.3 | 31.2  | 2.2 - 2.9 - 4.1 | 39.6 | 1.3 - 1.7 - 2.4 | 26 | 51              | 41 | 42 | 34 | 25 | 20 |  |
|                 | 4.06     | 96       | 29.6 | 3.3 - 4.0 - 5.6 | 40.7  | 2.5 - 3.1 - 4.4 | 51.8 | 1.5 - 1.8 - 2.5 | 30 | 54              | 45 | 46 | 39 | 32 | 27 |  |
|                 | 4.57     | 108      | 37.5 | 3.4 - 4.2 - 6.0 | 51.5  | 2.7 - 3.3 - 4.6 | 65.5 | 1.6 - 1.9 - 2.7 | 34 | 57              | 48 | 49 | 44 | 38 | 33 |  |
| 356<br>x<br>76  | 1.52     | 29       | 4.2  | 1.0 - 1.7 - 3.1 | 5.7   | 0.8 - 1.3 - 2.4 | 7.3  | 0.5 - 0.8 - 1.4 | -  | 30              | 17 | 18 | -  | -  | -  |  |
|                 | 2.03     | 39       | 7.4  | 1.5 - 2.2 - 3.6 | 10.2  | 1.2 - 1.7 - 2.8 | 12.9 | 0.7 - 1.0 - 1.6 | -  | 37              | 25 | 26 | 12 | -  | -  |  |
|                 | 2.54     | 49       | 11.6 | 1.9 - 2.8 - 4.0 | 15.9  | 1.4 - 2.2 - 3.1 | 20.2 | 0.8 - 1.3 - 1.8 | 15 | 42              | 31 | 32 | 21 | -  | -  |  |
|                 | 3.05     | 59       | 16.7 | 2.2 - 3.1 - 4.4 | 22.9  | 1.7 - 2.4 - 3.4 | 29.1 | 1.0 - 1.4 - 2.0 | 21 | 46              | 36 | 37 | 27 | 17 | 11 |  |
|                 | 3.56     | 68       | 22.7 | 2.6 - 3.4 - 4.8 | 31.2  | 2.0 - 2.6 - 3.7 | 39.6 | 1.2 - 1.5 - 2.1 | 25 | 50              | 40 | 41 | 33 | 24 | 19 |  |
|                 | 4.06     | 78       | 29.6 | 2.9 - 3.6 - 5.1 | 40.7  | 2.3 - 2.8 - 3.9 | 51.8 | 1.3 - 1.6 - 2.3 | 29 | 53              | 44 | 45 | 38 | 31 | 26 |  |
|                 | 4.57     | 88       | 37.5 | 3.1 - 3.8 - 5.4 | 51.5  | 2.4 - 3.0 - 4.2 | 65.5 | 1.4 - 1.7 - 2.4 | 33 | 56              | 47 | 48 | 43 | 37 | 32 |  |
|                 | 5.08     | 98       | 46.2 | 3.3 - 4.0 - 5.7 | 63.6  | 2.5 - 3.1 - 4.4 | 80.9 | 1.5 - 1.8 - 2.6 | 36 | 58              | 50 | 51 | 47 | 42 | 37 |  |
| 356<br>x<br>102 | 1.52     | 42       | 4.2  | 1.3 - 2.0 - 3.7 | 5.7   | 1.0 - 1.6 - 2.9 | 7.3  | 0.6 - 0.9 - 1.7 | -  | 32              | 19 | 20 | -  | -  | -  |  |
|                 | 2.03     | 56       | 7.4  | 1.8 - 2.7 - 4.3 | 10.2  | 1.4 - 2.1 - 3.3 | 12.9 | 0.8 - 1.2 - 1.9 | -  | 38              | 27 | 28 | 14 | -  | -  |  |
|                 | 2.54     | 71       | 11.6 | 2.2 - 3.3 - 4.8 | 15.9  | 1.7 - 2.6 - 3.7 | 20.2 | 1.0 - 1.5 - 2.2 | 17 | 44              | 33 | 34 | 22 | -  | -  |  |
|                 | 3.05     | 85       | 16.7 | 2.7 - 3.7 - 5.3 | 22.9  | 2.1 - 2.9 - 4.1 | 29.1 | 1.2 - 1.7 - 2.4 | 22 | 48              | 38 | 39 | 29 | 18 | 13 |  |
|                 | 3.56     | 99       | 22.7 | 3.1 - 4.0 - 5.7 | 31.2  | 2.4 - 3.1 - 4.4 | 39.6 | 1.4 - 1.8 - 2.6 | 27 | 51              | 42 | 43 | 35 | 26 | 21 |  |
|                 | 4.06     | 113      | 29.6 | 3.5 - 4.3 - 6.1 | 40.7  | 2.7 - 3.3 - 4.7 | 51.8 | 1.6 - 1.9 - 2.8 | 31 | 54              | 46 | 46 | 40 | 33 | 28 |  |
|                 | 4.57     | 127      | 37.5 | 3.7 - 4.6 - 6.5 | 51.5  | 2.9 - 3.6 - 5.0 | 65.5 | 1.7 - 2.1 - 2.9 | 34 | 57              | 49 | 50 | 44 | 38 | 34 |  |
|                 | 5.08     | 141      | 46.2 | 3.9 - 4.8 - 6.8 | 63.6  | 3.1 - 3.7 - 5.3 | 80.9 | 1.8 - 2.2 - 3.1 | 38 | 60              | 52 | 53 | 48 | 44 | 39 |  |
| 356<br>x<br>102 | 5.59     | 155      | 56.0 | 4.1 - 5.1 - 7.2 | 76.9  | 3.2 - 3.9 - 5.6 | 97.9 | 1.9 - 2.3 - 3.2 | 40 | 62              | 54 | 55 | 52 | 48 | 44 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

## 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

FREE JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct        | Neck Vel | Air Flow | 0°   |                  | 22.5° |                  | 45°  |                 | NC | Octave Band, dB |    |    |    |    |    |  |
|-----------------|----------|----------|------|------------------|-------|------------------|------|-----------------|----|-----------------|----|----|----|----|----|--|
|                 |          |          | Pt   | Throw            | Pt    | Throw            | Pt   | Throw           |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| mm              | m/s      | L/s      | Pa   | m                | Pa    | m                | Pa   | m               |    |                 |    |    |    |    |    |  |
| 356<br>x<br>152 | 1.02     | 46       | 1.9  | 0.7 - 1.6 - 3.4  | 2.5   | 0.5 - 1.2 - 2.6  | 3.2  | 0.3 - 0.7 - 1.5 | -  | 24              | -  | 11 | -  | -  | -  |  |
|                 | 1.52     | 68       | 4.2  | 1.6 - 2.6 - 4.8  | 5.7   | 1.2 - 2.0 - 3.7  | 7.3  | 0.7 - 1.1 - 2.1 | -  | 34              | 21 | 22 | -  | -  | -  |  |
|                 | 2.03     | 91       | 7.4  | 2.3 - 3.4 - 5.5  | 10.2  | 1.8 - 2.6 - 4.3  | 12.9 | 1.0 - 1.5 - 2.5 | 12 | 40              | 29 | 30 | 16 | -  | -  |  |
|                 | 2.54     | 114      | 11.6 | 2.8 - 4.3 - 6.1  | 15.9  | 2.2 - 3.3 - 4.8  | 20.2 | 1.3 - 1.9 - 2.8 | 19 | 46              | 35 | 36 | 24 | 11 | -  |  |
|                 | 3.05     | 137      | 16.7 | 3.4 - 4.8 - 6.7  | 22.9  | 2.6 - 3.7 - 5.2  | 29.1 | 1.5 - 2.1 - 3.0 | 24 | 50              | 40 | 41 | 31 | 20 | 15 |  |
|                 | 3.56     | 160      | 22.7 | 4.0 - 5.1 - 7.3  | 31.2  | 3.1 - 4.0 - 5.6  | 39.6 | 1.8 - 2.3 - 3.3 | 29 | 53              | 44 | 45 | 37 | 28 | 23 |  |
|                 | 4.06     | 182      | 29.6 | 4.5 - 5.5 - 7.8  | 40.7  | 3.5 - 4.3 - 6.0  | 51.8 | 2.0 - 2.5 - 3.5 | 33 | 57              | 48 | 49 | 42 | 35 | 29 |  |
|                 | 4.57     | 205      | 37.5 | 4.8 - 5.8 - 8.2  | 51.5  | 3.7 - 4.5 - 6.4  | 65.5 | 2.1 - 2.6 - 3.7 | 36 | 59              | 51 | 52 | 46 | 40 | 35 |  |
|                 | 5.08     | 228      | 46.2 | 5.0 - 6.1 - 8.7  | 63.6  | 3.9 - 4.8 - 6.7  | 80.9 | 2.3 - 2.8 - 3.9 | 40 | 62              | 54 | 55 | 50 | 46 | 41 |  |
| 356<br>x<br>203 | 1.02     | 63       | 1.9  | 0.8 - 1.9 - 4.0  | 2.5   | 0.6 - 1.4 - 3.1  | 3.2  | 0.4 - 0.8 - 1.8 | -  | 26              | 11 | 12 | -  | -  | -  |  |
|                 | 1.52     | 94       | 4.2  | 1.9 - 3.0 - 5.6  | 5.7   | 1.4 - 2.3 - 4.3  | 7.3  | 0.8 - 1.4 - 2.5 | -  | 35              | 22 | 23 | -  | -  | -  |  |
|                 | 2.03     | 126      | 7.4  | 2.7 - 4.0 - 6.5  | 10.2  | 2.1 - 3.1 - 5.0  | 12.9 | 1.2 - 1.8 - 2.9 | 14 | 42              | 30 | 31 | 17 | -  | -  |  |
|                 | 2.54     | 157      | 11.6 | 3.3 - 5.0 - 7.2  | 15.9  | 2.6 - 3.9 - 5.6  | 20.2 | 1.5 - 2.3 - 3.2 | 20 | 47              | 36 | 37 | 25 | 13 | -  |  |
|                 | 3.05     | 189      | 16.7 | 4.0 - 5.6 - 7.9  | 22.9  | 3.1 - 4.3 - 6.1  | 29.1 | 1.8 - 2.5 - 3.6 | 26 | 51              | 41 | 42 | 32 | 22 | 16 |  |
|                 | 3.56     | 220      | 22.7 | 4.7 - 6.0 - 8.5  | 31.2  | 3.6 - 4.7 - 6.6  | 39.6 | 2.1 - 2.7 - 3.8 | 30 | 55              | 45 | 46 | 38 | 29 | 24 |  |
|                 | 4.06     | 252      | 29.6 | 5.3 - 6.5 - 9.1  | 40.7  | 4.1 - 5.0 - 7.1  | 51.8 | 2.4 - 2.9 - 4.1 | 34 | 58              | 49 | 50 | 43 | 36 | 31 |  |
|                 | 4.57     | 283      | 37.5 | 5.6 - 6.8 - 9.7  | 51.5  | 4.3 - 5.3 - 7.5  | 65.5 | 2.5 - 3.1 - 4.4 | 38 | 61              | 52 | 53 | 48 | 42 | 37 |  |
|                 | 5.08     | 315      | 46.2 | 5.9 - 7.2 - 10.2 | 63.6  | 4.6 - 5.6 - 7.9  | 80.9 | 2.7 - 3.2 - 4.6 | 41 | 63              | 55 | 56 | 52 | 47 | 42 |  |
| 508<br>x<br>76  | 1.52     | 43       | 4.2  | 1.3 - 2.0 - 3.8  | 5.7   | 1.0 - 1.6 - 2.9  | 7.3  | 0.6 - 0.9 - 1.7 | -  | 32              | 19 | 20 | -  | -  | -  |  |
|                 | 2.03     | 57       | 7.4  | 1.8 - 2.7 - 4.3  | 10.2  | 1.4 - 2.1 - 3.4  | 12.9 | 0.8 - 1.2 - 2.0 | -  | 38              | 27 | 28 | 14 | -  | -  |  |
|                 | 2.54     | 71       | 11.6 | 2.2 - 3.4 - 4.8  | 15.9  | 1.7 - 2.6 - 3.8  | 20.2 | 1.0 - 1.5 - 2.2 | 17 | 44              | 33 | 34 | 22 | -  | -  |  |
|                 | 3.05     | 85       | 16.7 | 2.7 - 3.8 - 5.3  | 22.9  | 2.1 - 2.9 - 4.1  | 29.1 | 1.2 - 1.7 - 2.4 | 22 | 48              | 38 | 39 | 29 | 18 | 13 |  |
|                 | 3.56     | 99       | 22.7 | 3.1 - 4.1 - 5.7  | 31.2  | 2.4 - 3.1 - 4.4  | 39.6 | 1.4 - 1.8 - 2.6 | 27 | 51              | 42 | 43 | 35 | 26 | 21 |  |
|                 | 4.06     | 114      | 29.6 | 3.5 - 4.3 - 6.1  | 40.7  | 2.7 - 3.4 - 4.8  | 51.8 | 1.6 - 2.0 - 2.8 | 31 | 54              | 46 | 47 | 40 | 33 | 28 |  |
|                 | 4.57     | 128      | 37.5 | 3.8 - 4.6 - 6.5  | 51.5  | 2.9 - 3.6 - 5.0  | 65.5 | 1.7 - 2.1 - 2.9 | 35 | 57              | 49 | 50 | 44 | 38 | 34 |  |
|                 | 5.08     | 142      | 46.2 | 4.0 - 4.8 - 6.9  | 63.6  | 3.1 - 3.8 - 5.3  | 80.9 | 1.8 - 2.2 - 3.1 | 38 | 60              | 52 | 53 | 48 | 44 | 39 |  |
|                 | 5.59     | 156      | 56.0 | 4.1 - 5.1 - 7.2  | 76.9  | 3.2 - 3.9 - 5.6  | 97.9 | 1.9 - 2.3 - 3.2 | 41 | 62              | 54 | 55 | 52 | 48 | 44 |  |
| 508<br>x<br>102 | 1.52     | 62       | 4.2  | 1.5 - 2.4 - 4.5  | 5.7   | 1.2 - 1.9 - 3.5  | 7.3  | 0.7 - 1.1 - 2.0 | -  | 33              | 20 | 22 | -  | -  | -  |  |
|                 | 2.03     | 82       | 7.4  | 2.2 - 3.2 - 5.2  | 10.2  | 1.7 - 2.5 - 4.0  | 12.9 | 1.0 - 1.5 - 2.3 | 12 | 40              | 28 | 29 | 15 | -  | -  |  |
|                 | 2.54     | 103      | 11.6 | 2.7 - 4.0 - 5.8  | 15.9  | 2.1 - 3.1 - 4.5  | 20.2 | 1.2 - 1.8 - 2.6 | 18 | 45              | 34 | 35 | 24 | 11 | -  |  |
|                 | 3.05     | 123      | 16.7 | 3.2 - 4.5 - 6.4  | 22.9  | 2.5 - 3.5 - 4.9  | 29.1 | 1.5 - 2.0 - 2.9 | 24 | 49              | 39 | 40 | 31 | 20 | 14 |  |
|                 | 3.56     | 144      | 22.7 | 3.8 - 4.9 - 6.9  | 31.2  | 2.9 - 3.8 - 5.3  | 39.6 | 1.7 - 2.2 - 3.1 | 29 | 53              | 44 | 44 | 36 | 28 | 22 |  |
|                 | 4.06     | 164      | 29.6 | 4.3 - 5.2 - 7.4  | 40.7  | 3.3 - 4.0 - 5.7  | 51.8 | 1.9 - 2.3 - 3.3 | 33 | 56              | 47 | 48 | 41 | 34 | 29 |  |
|                 | 4.57     | 185      | 37.5 | 4.5 - 5.5 - 7.8  | 51.5  | 3.5 - 4.3 - 6.1  | 65.5 | 2.0 - 2.5 - 3.5 | 36 | 59              | 50 | 51 | 46 | 40 | 35 |  |
|                 | 5.08     | 205      | 46.2 | 4.8 - 5.8 - 8.2  | 63.6  | 3.7 - 4.5 - 6.4  | 80.9 | 2.1 - 2.6 - 3.7 | 39 | 61              | 53 | 54 | 50 | 45 | 40 |  |
|                 | 5.59     | 226      | 56.0 | 5.0 - 6.1 - 8.6  | 76.9  | 3.9 - 4.7 - 6.7  | 97.9 | 2.2 - 2.7 - 3.9 | 42 | 63              | 56 | 57 | 53 | 50 | 45 |  |
| 508<br>x<br>203 | 1.02     | 91       | 1.9  | 1.0 - 2.3 - 4.8  | 2.5   | 0.8 - 1.7 - 3.7  | 3.2  | 0.5 - 1.0 - 2.2 | -  | 27              | 13 | 14 | -  | -  | -  |  |
|                 | 1.52     | 137      | 4.2  | 2.3 - 3.6 - 6.7  | 5.7   | 1.7 - 2.8 - 5.2  | 7.3  | 1.0 - 1.6 - 3.0 | -  | 37              | 24 | 25 | -  | -  | -  |  |
|                 | 2.03     | 183      | 7.4  | 3.2 - 4.8 - 7.8  | 10.2  | 2.5 - 3.7 - 6.0  | 12.9 | 1.4 - 2.2 - 3.5 | 15 | 43              | 32 | 33 | 19 | -  | -  |  |
|                 | 2.54     | 229      | 11.6 | 4.0 - 6.0 - 8.7  | 15.9  | 3.1 - 4.7 - 6.7  | 20.2 | 1.8 - 2.7 - 3.9 | 22 | 48              | 38 | 39 | 27 | 14 | -  |  |
|                 | 3.05     | 274      | 16.7 | 4.8 - 6.7 - 9.5  | 22.9  | 3.7 - 5.2 - 7.4  | 29.1 | 2.2 - 3.0 - 4.3 | 27 | 53              | 43 | 44 | 34 | 23 | 18 |  |
|                 | 3.56     | 320      | 22.7 | 5.6 - 7.3 - 10.3 | 31.2  | 4.4 - 5.6 - 8.0  | 39.6 | 2.5 - 3.3 - 4.6 | 32 | 56              | 47 | 48 | 40 | 31 | 26 |  |
|                 | 4.06     | 366      | 29.6 | 6.4 - 7.8 - 11.0 | 40.7  | 4.9 - 6.0 - 8.5  | 51.8 | 2.9 - 3.5 - 5.0 | 36 | 59              | 51 | 51 | 45 | 38 | 32 |  |
|                 | 4.57     | 412      | 37.5 | 6.7 - 8.3 - 11.7 | 51.5  | 5.2 - 6.4 - 9.0  | 65.5 | 3.0 - 3.7 - 5.3 | 39 | 62              | 54 | 55 | 49 | 43 | 38 |  |
|                 | 5.08     | 457      | 46.2 | 7.1 - 8.7 - 12.3 | 63.6  | 5.5 - 6.7 - 9.5  | 80.9 | 3.2 - 3.9 - 5.5 | 43 | 65              | 57 | 57 | 53 | 49 | 44 |  |
| 508<br>x<br>305 | 0.76     | 106      | 1.0  | 0.7 - 1.6 - 4.5  | 1.4   | 0.5 - 1.2 - 3.5  | 1.8  | 0.3 - 0.7 - 2.0 | -  | 22              | -  | -  | -  | -  | -  |  |
|                 | 1.40     | 195      | 3.5  | 2.4 - 4.1 - 8.0  | 4.8   | 1.8 - 3.2 - 6.2  | 6.1  | 1.1 - 1.9 - 3.6 | -  | 36              | 23 | 25 | -  | -  | -  |  |
|                 | 1.78     | 248      | 5.7  | 3.5 - 5.3 - 9.1  | 7.8   | 2.7 - 4.1 - 7.0  | 9.9  | 1.6 - 2.4 - 4.1 | 13 | 42              | 30 | 31 | 15 | -  | -  |  |
|                 | 2.16     | 302      | 8.4  | 4.3 - 6.4 - 10.0 | 11.5  | 3.3 - 4.9 - 7.7  | 14.6 | 1.9 - 2.9 - 4.5 | 19 | 47              | 35 | 36 | 23 | -  | -  |  |
|                 | 2.54     | 355      | 11.6 | 5.0 - 7.5 - 10.8 | 15.9  | 3.9 - 5.8 - 8.4  | 20.2 | 2.3 - 3.4 - 4.9 | 24 | 50              | 40 | 41 | 29 | 16 | -  |  |
|                 | 2.92     | 408      | 15.3 | 5.8 - 8.2 - 11.6 | 21.0  | 4.5 - 6.4 - 9.0  | 26.8 | 2.6 - 3.7 - 5.2 | 28 | 54              | 43 | 44 | 34 | 23 | 17 |  |
|                 | 3.30     | 461      | 19.5 | 6.5 - 8.7 - 12.4 | 26.9  | 5.0 - 6.8 - 9.6  | 34.2 | 2.9 - 3.9 - 5.6 | 32 | 56              | 47 | 48 | 39 | 29 | 24 |  |
|                 | 3.68     | 515      | 24.3 | 7.3 - 9.2 - 13.0 | 33.4  | 5.6 - 7.2 - 10.1 | 42.5 | 3.3 - 4.2 - 5.9 | 35 | 59              | 50 | 51 | 43 | 35 | 29 |  |
|                 | 4.06     | 568      | 29.6 | 7.9 - 9.7 - 13.7 | 40.7  | 6.1 - 7.5 - 10.6 | 51.8 | 3.6 - 4.4 - 6.2 | 38 | 61              | 52 | 53 | 47 | 39 | 34 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.



### 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data

FREE JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct        | Neck Vel | Air Flow | 0°   |                   | 22.5° |                  | 45°  |                 | NC | Octave Band, dB |    |    |    |    |    |  |
|-----------------|----------|----------|------|-------------------|-------|------------------|------|-----------------|----|-----------------|----|----|----|----|----|--|
|                 |          |          | Pt   | Throw             | Pt    | Throw            | Pt   | Throw           |    |                 |    |    |    |    |    |  |
|                 |          |          | Pa   | m                 | Pa    | m                | Pa   | m               |    | 2               | 3  | 4  | 5  | 6  | 7  |  |
| 762<br>x<br>76  | 1.02     | 43       | 1.9  | 0.7 - 1.5 - 3.3   | 2.5   | 0.5 - 1.2 - 2.6  | 3.2  | 0.3 - 0.7 - 1.5 | -  | 24              | -  | 11 | -  | -  | -  |  |
|                 | 1.52     | 65       | 4.2  | 1.5 - 2.5 - 4.6   | 5.7   | 1.2 - 1.9 - 3.6  | 7.3  | 0.7 - 1.1 - 2.1 | -  | 33              | 21 | 22 | -  | -  | -  |  |
|                 | 2.03     | 86       | 7.4  | 2.2 - 3.3 - 5.3   | 10.2  | 1.7 - 2.6 - 4.1  | 12.9 | 1.0 - 1.5 - 2.4 | 12 | 40              | 28 | 30 | 15 | -  | -  |  |
|                 | 2.54     | 108      | 11.6 | 2.8 - 4.1 - 6.0   | 15.9  | 2.1 - 3.2 - 4.6  | 20.2 | 1.2 - 1.9 - 2.7 | 19 | 45              | 35 | 36 | 24 | 11 | -  |  |
|                 | 3.05     | 129      | 16.7 | 3.3 - 4.6 - 6.5   | 22.9  | 2.6 - 3.6 - 5.1  | 29.1 | 1.5 - 2.1 - 2.9 | 24 | 50              | 40 | 41 | 31 | 20 | 15 |  |
|                 | 3.56     | 151      | 22.7 | 3.9 - 5.0 - 7.1   | 31.2  | 3.0 - 3.9 - 5.5  | 39.6 | 1.7 - 2.2 - 3.2 | 29 | 53              | 44 | 45 | 37 | 28 | 22 |  |
|                 | 4.06     | 173      | 29.6 | 4.4 - 5.3 - 7.6   | 40.7  | 3.4 - 4.1 - 5.9  | 51.8 | 2.0 - 2.4 - 3.4 | 33 | 56              | 47 | 48 | 42 | 34 | 29 |  |
|                 | 4.57     | 194      | 37.5 | 4.6 - 5.7 - 8.0   | 51.5  | 3.6 - 4.4 - 6.2  | 65.5 | 2.1 - 2.6 - 3.6 | 36 | 59              | 51 | 51 | 46 | 40 | 35 |  |
| 762<br>x<br>102 | 5.08     | 216      | 46.2 | 4.9 - 6.0 - 8.4   | 63.6  | 3.8 - 4.6 - 6.5  | 80.9 | 2.2 - 2.7 - 3.8 | 39 | 61              | 54 | 54 | 50 | 45 | 41 |  |
|                 | 1.02     | 62       | 1.9  | 0.8 - 1.9 - 4.0   | 2.5   | 0.6 - 1.4 - 3.1  | 3.2  | 0.4 - 0.8 - 1.8 | -  | 26              | 11 | 12 | -  | -  | -  |  |
|                 | 1.52     | 93       | 4.2  | 1.9 - 3.0 - 5.6   | 5.7   | 1.4 - 2.3 - 4.3  | 7.3  | 0.8 - 1.3 - 2.5 | -  | 35              | 22 | 23 | -  | -  | -  |  |
|                 | 2.03     | 125      | 7.4  | 2.7 - 4.0 - 6.4   | 10.2  | 2.1 - 3.1 - 5.0  | 12.9 | 1.2 - 1.8 - 2.9 | 14 | 42              | 30 | 31 | 17 | -  | -  |  |
|                 | 2.54     | 156      | 11.6 | 3.3 - 5.0 - 7.2   | 15.9  | 2.6 - 3.9 - 5.6  | 20.2 | 1.5 - 2.2 - 3.2 | 20 | 47              | 36 | 37 | 25 | 13 | -  |  |
|                 | 3.05     | 187      | 16.7 | 4.0 - 5.6 - 7.9   | 22.9  | 3.1 - 4.3 - 6.1  | 29.1 | 1.8 - 2.5 - 3.5 | 26 | 51              | 41 | 42 | 32 | 22 | 16 |  |
|                 | 3.56     | 218      | 22.7 | 4.6 - 6.0 - 8.5   | 31.2  | 3.6 - 4.7 - 6.6  | 39.6 | 2.1 - 2.7 - 3.8 | 30 | 55              | 45 | 46 | 38 | 29 | 24 |  |
|                 | 4.06     | 249      | 29.6 | 5.2 - 6.4 - 9.1   | 40.7  | 4.1 - 5.0 - 7.0  | 51.8 | 2.4 - 2.9 - 4.1 | 34 | 58              | 49 | 50 | 43 | 36 | 31 |  |
| 762<br>x<br>203 | 4.57     | 280      | 37.5 | 5.6 - 6.8 - 9.6   | 51.5  | 4.3 - 5.3 - 7.5  | 65.5 | 2.5 - 3.1 - 4.3 | 38 | 61              | 52 | 53 | 48 | 42 | 37 |  |
|                 | 5.08     | 312      | 46.2 | 5.9 - 7.2 - 10.2  | 63.6  | 4.5 - 5.6 - 7.9  | 80.9 | 2.6 - 3.2 - 4.6 | 41 | 63              | 55 | 56 | 52 | 47 | 42 |  |
|                 | 0.76     | 104      | 1.0  | 0.7 - 1.6 - 4.5   | 1.4   | 0.5 - 1.2 - 3.5  | 1.8  | 0.3 - 0.7 - 2.0 | -  | 22              | -  | -  | -  | -  | -  |  |
|                 | 1.40     | 191      | 3.5  | 2.3 - 4.1 - 8.0   | 4.8   | 1.8 - 3.2 - 6.2  | 6.1  | 1.1 - 1.8 - 3.6 | -  | 36              | 23 | 24 | -  | -  | -  |  |
|                 | 1.78     | 243      | 5.7  | 3.5 - 5.2 - 9.0   | 7.8   | 2.7 - 4.0 - 7.0  | 9.9  | 1.6 - 2.3 - 4.0 | 13 | 42              | 30 | 31 | 15 | -  | -  |  |
|                 | 2.16     | 295      | 8.4  | 4.2 - 6.3 - 9.9   | 11.5  | 3.3 - 4.9 - 7.7  | 14.6 | 1.9 - 2.8 - 4.4 | 19 | 46              | 35 | 36 | 23 | -  | -  |  |
|                 | 2.54     | 348      | 11.6 | 5.0 - 7.4 - 10.7  | 15.9  | 3.8 - 5.8 - 8.3  | 20.2 | 2.2 - 3.3 - 4.8 | 24 | 50              | 39 | 41 | 29 | 16 | -  |  |
|                 | 2.92     | 400      | 15.3 | 5.7 - 8.1 - 11.5  | 21.0  | 4.4 - 6.3 - 8.9  | 26.8 | 2.6 - 3.7 - 5.2 | 28 | 54              | 43 | 44 | 34 | 23 | 17 |  |
| 762<br>x<br>305 | 3.30     | 452      | 19.5 | 6.4 - 8.6 - 12.2  | 26.9  | 5.0 - 6.7 - 9.5  | 34.2 | 2.9 - 3.9 - 5.5 | 31 | 56              | 47 | 48 | 39 | 29 | 24 |  |
|                 | 3.68     | 504      | 24.3 | 7.2 - 9.1 - 12.9  | 33.4  | 5.6 - 7.1 - 10.0 | 42.5 | 3.2 - 4.1 - 5.8 | 35 | 59              | 50 | 51 | 43 | 35 | 29 |  |
|                 | 4.06     | 556      | 29.6 | 7.8 - 9.6 - 13.6  | 40.7  | 6.1 - 7.4 - 10.5 | 51.8 | 3.5 - 4.3 - 6.1 | 38 | 61              | 52 | 53 | 47 | 39 | 34 |  |
|                 | 0.76     | 162      | 1.0  | 0.9 - 1.9 - 5.6   | 1.4   | 0.7 - 1.5 - 4.3  | 1.8  | 0.4 - 0.9 - 2.5 | -  | 24              | -  | -  | -  | -  | -  |  |
|                 | 1.40     | 297      | 3.5  | 2.9 - 5.1 - 9.9   | 4.8   | 2.3 - 3.9 - 7.7  | 6.1  | 1.3 - 2.3 - 4.5 | -  | 38              | 25 | 26 | -  | -  | -  |  |
|                 | 1.78     | 377      | 5.7  | 4.3 - 6.5 - 11.2  | 7.8   | 3.3 - 5.0 - 8.7  | 9.9  | 1.9 - 2.9 - 5.0 | 15 | 44              | 32 | 33 | 17 | -  | -  |  |
|                 | 2.16     | 458      | 8.4  | 5.2 - 7.9 - 12.3  | 11.5  | 4.1 - 6.1 - 9.5  | 14.6 | 2.4 - 3.5 - 5.5 | 21 | 48              | 37 | 38 | 25 | -  | -  |  |
|                 | 2.54     | 539      | 11.6 | 6.2 - 9.3 - 13.4  | 15.9  | 4.8 - 7.2 - 10.4 | 20.2 | 2.8 - 4.2 - 6.0 | 25 | 52              | 41 | 42 | 31 | 18 | 12 |  |
| 914<br>x<br>76  | 2.92     | 620      | 15.3 | 7.1 - 10.1 - 14.3 | 21.0  | 5.5 - 7.8 - 11.1 | 26.8 | 3.2 - 4.6 - 6.4 | 30 | 55              | 45 | 46 | 36 | 25 | 19 |  |
|                 | 3.30     | 701      | 19.5 | 8.0 - 10.8 - 15.2 | 26.9  | 6.2 - 8.3 - 11.8 | 34.2 | 3.6 - 4.8 - 6.9 | 33 | 58              | 49 | 49 | 41 | 31 | 25 |  |
|                 | 3.68     | 782      | 24.3 | 8.9 - 11.4 - 16.1 | 33.4  | 6.9 - 8.8 - 12.5 | 42.5 | 4.0 - 5.1 - 7.2 | 37 | 61              | 52 | 52 | 45 | 36 | 31 |  |
|                 | 4.06     | 863      | 29.6 | 9.8 - 11.9 - 16.9 | 40.7  | 7.6 - 9.3 - 13.1 | 51.8 | 4.4 - 5.4 - 7.6 | 39 | 63              | 54 | 55 | 48 | 41 | 36 |  |
|                 | 1.02     | 52       | 1.9  | 0.8 - 1.7 - 3.6   | 2.5   | 0.6 - 1.3 - 2.8  | 3.2  | 0.3 - 0.8 - 1.6 | -  | 25              | -  | 12 | -  | -  | -  |  |
|                 | 1.52     | 78       | 4.2  | 1.7 - 2.7 - 5.1   | 5.7   | 1.3 - 2.1 - 3.9  | 7.3  | 0.8 - 1.2 - 2.3 | -  | 34              | 21 | 23 | -  | -  | -  |  |
|                 | 2.03     | 104      | 7.4  | 2.4 - 3.6 - 5.9   | 10.2  | 1.9 - 2.8 - 4.5  | 12.9 | 1.1 - 1.6 - 2.6 | 13 | 41              | 29 | 30 | 16 | -  | -  |  |
|                 | 2.54     | 130      | 11.6 | 3.0 - 4.5 - 6.6   | 15.9  | 2.3 - 3.5 - 5.1  | 20.2 | 1.4 - 2.0 - 3.0 | 19 | 46              | 35 | 36 | 25 | 12 | -  |  |
| 914<br>x<br>102 | 3.05     | 156      | 16.7 | 3.6 - 5.1 - 7.2   | 22.9  | 2.8 - 3.9 - 5.6  | 29.1 | 1.6 - 2.3 - 3.2 | 25 | 50              | 40 | 41 | 32 | 21 | 15 |  |
|                 | 3.56     | 182      | 22.7 | 4.2 - 5.5 - 7.8   | 31.2  | 3.3 - 4.3 - 6.0  | 39.6 | 1.9 - 2.5 - 3.5 | 30 | 54              | 45 | 45 | 37 | 29 | 23 |  |
|                 | 4.06     | 208      | 29.6 | 4.8 - 5.9 - 8.3   | 40.7  | 3.7 - 4.5 - 6.4  | 51.8 | 2.2 - 2.6 - 3.7 | 34 | 57              | 48 | 49 | 42 | 35 | 30 |  |
|                 | 4.57     | 234      | 37.5 | 5.1 - 6.2 - 8.8   | 51.5  | 3.9 - 4.8 - 6.8  | 65.5 | 2.3 - 2.8 - 4.0 | 37 | 60              | 51 | 52 | 47 | 41 | 36 |  |
|                 | 5.08     | 260      | 46.2 | 5.4 - 6.6 - 9.3   | 63.6  | 4.1 - 5.1 - 7.2  | 80.9 | 2.4 - 3.0 - 4.2 | 40 | 62              | 54 | 55 | 51 | 46 | 41 |  |
|                 | 1.02     | 75       | 1.9  | 0.9 - 2.0 - 4.4   | 2.5   | 0.7 - 1.6 - 3.4  | 3.2  | 0.4 - 0.9 - 2.0 | -  | 26              | 12 | 13 | -  | -  | -  |  |
|                 | 1.52     | 113      | 4.2  | 2.0 - 3.3 - 6.1   | 5.7   | 1.6 - 2.5 - 4.7  | 7.3  | 0.9 - 1.5 - 2.7 | -  | 36              | 23 | 24 | -  | -  | -  |  |
|                 | 2.03     | 150      | 7.4  | 2.9 - 4.4 - 7.0   | 10.2  | 2.3 - 3.4 - 5.5  | 12.9 | 1.3 - 2.0 - 3.2 | 14 | 42              | 31 | 32 | 18 | -  | -  |  |
| 914<br>x<br>102 | 2.54     | 188      | 11.6 | 3.6 - 5.5 - 7.9   | 15.9  | 2.8 - 4.2 - 6.1  | 20.2 | 1.6 - 2.5 - 3.5 | 21 | 48              | 37 | 38 | 26 | 14 | -  |  |
|                 | 3.05     | 225      | 16.7 | 4.4 - 6.1 - 8.6   | 22.9  | 3.4 - 4.7 - 6.7  | 29.1 | 2.0 - 2.7 - 3.9 | 26 | 52              | 42 | 43 | 33 | 23 | 17 |  |
|                 | 3.56     | 263      | 22.7 | 5.1 - 6.6 - 9.3   | 31.2  | 4.0 - 5.1 - 7.2  | 39.6 | 2.3 - 3.0 - 4.2 | 31 | 55              | 46 | 47 | 39 | 30 | 25 |  |
|                 | 4.06     | 300      | 29.6 | 5.8 - 7.0 - 10.0  | 40.7  | 4.5 - 5.5 - 7.7  | 51.8 | 2.6 - 3.2 - 4.5 | 35 | 59              | 50 | 51 | 44 | 37 | 32 |  |
|                 | 4.57     | 338      | 37.5 | 6.1 - 7.5 - 10.6  | 51.5  | 4.7 - 5.8 - 8.2  | 65.5 | 2.7 - 3.4 - 4.8 | 39 | 61              | 53 | 54 | 48 | 43 | 38 |  |
|                 | 5.08     | 375      | 46.2 | 6.4 - 7.9 - 11.1  | 63.6  | 5.0 - 6.1 - 8.6  | 80.9 | 2.9 - 3.5 - 5.0 | 42 | 64              | 56 | 57 | 52 | 48 | 43 |  |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

**5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU Performance Data**

FREE JET AIRFLOW METRIC DATA: 5DMGSR, 5DMGSU, 5DMGDR, 5DMGDU (NO DAMPER)

| Nom Duct         | Neck Vel | Air Flow | 0°   |                    | 22.5° |                   | 45°  |                 | NC | Octave Band, dB |    |    |    |    |    |   |
|------------------|----------|----------|------|--------------------|-------|-------------------|------|-----------------|----|-----------------|----|----|----|----|----|---|
|                  |          |          | Pt   | Throw              | Pt    | Throw             | Pt   | Throw           |    | 2               | 3  | 4  | 5  | 6  | 7  |   |
| mm               | m/s      | L/s      | Pa   | m                  | Pa    | m                 | Pa   | m               |    |                 |    |    |    |    |    |   |
| 914<br>x<br>203  | 0.76     | 126      | 1.0  | 0.8 - 1.7 - 4.9    | 1.4   | 0.6 - 1.3 - 3.8   | 1.8  | 0.3 - 0.8 - 2.2 | -  | 23              | -  | -  | -  | -  | -  | - |
|                  | 1.40     | 230      | 3.5  | 2.6 - 4.5 - 8.7    | 4.8   | 2.0 - 3.5 - 6.8   | 6.1  | 1.2 - 2.0 - 3.9 | -  | 37              | 24 | 25 | -  | -  | -  | - |
|                  | 1.78     | 293      | 5.7  | 3.8 - 5.7 - 9.8    | 7.8   | 3.0 - 4.4 - 7.6   | 9.9  | 1.7 - 2.6 - 4.4 | 14 | 43              | 30 | 32 | 16 | -  | -  | - |
|                  | 2.16     | 356      | 8.4  | 4.6 - 6.9 - 10.9   | 11.5  | 3.6 - 5.4 - 8.4   | 14.6 | 2.1 - 3.1 - 4.9 | 20 | 47              | 36 | 37 | 23 | -  | -  | - |
|                  | 2.54     | 419      | 11.6 | 5.4 - 8.2 - 11.8   | 15.9  | 4.2 - 6.3 - 9.1   | 20.2 | 2.4 - 3.7 - 5.3 | 24 | 51              | 40 | 41 | 30 | 17 | 11 | - |
|                  | 2.92     | 482      | 15.3 | 6.3 - 8.9 - 12.6   | 21.0  | 4.8 - 6.9 - 9.8   | 26.8 | 2.8 - 4.0 - 5.7 | 29 | 54              | 44 | 45 | 35 | 24 | 18 | - |
|                  | 3.30     | 544      | 19.5 | 7.1 - 9.5 - 13.4   | 26.9  | 5.5 - 7.4 - 10.4  | 34.2 | 3.2 - 4.3 - 6.0 | 32 | 57              | 47 | 48 | 39 | 30 | 24 | - |
|                  | 3.68     | 607      | 24.3 | 7.9 - 10.0 - 14.2  | 33.4  | 6.1 - 7.8 - 11.0  | 42.5 | 3.5 - 4.5 - 6.4 | 35 | 60              | 50 | 51 | 44 | 35 | 30 | - |
|                  | 4.06     | 670      | 29.6 | 8.6 - 10.5 - 14.9  | 40.7  | 6.7 - 8.2 - 11.5  | 51.8 | 3.9 - 4.7 - 6.7 | 38 | 62              | 53 | 54 | 47 | 40 | 35 | - |
| 914<br>x<br>305  | 0.76     | 195      | 1.0  | 1.0 - 2.1 - 6.1    | 1.4   | 0.7 - 1.7 - 4.7   | 1.8  | 0.4 - 1.0 - 2.7 | -  | 25              | -  | 11 | -  | -  | -  | - |
|                  | 1.40     | 357      | 3.5  | 3.2 - 5.6 - 10.9   | 4.8   | 2.5 - 4.3 - 8.4   | 6.1  | 1.4 - 2.5 - 4.9 | -  | 39              | 26 | 27 | -  | -  | -  | - |
|                  | 1.78     | 455      | 5.7  | 4.7 - 7.1 - 12.3   | 7.8   | 3.7 - 5.5 - 9.5   | 9.9  | 2.1 - 3.2 - 5.5 | 16 | 45              | 32 | 34 | 18 | -  | -  | - |
|                  | 2.16     | 552      | 8.4  | 5.8 - 8.6 - 13.5   | 11.5  | 4.5 - 6.7 - 10.5  | 14.6 | 2.6 - 3.9 - 6.1 | 21 | 49              | 38 | 39 | 25 | 11 | -  | - |
|                  | 2.54     | 650      | 11.6 | 6.8 - 10.2 - 14.7  | 15.9  | 5.3 - 7.9 - 11.4  | 20.2 | 3.0 - 4.6 - 6.6 | 26 | 53              | 42 | 43 | 31 | 19 | 13 | - |
|                  | 2.92     | 747      | 15.3 | 7.8 - 11.1 - 15.7  | 21.0  | 6.0 - 8.6 - 12.2  | 26.8 | 3.5 - 5.0 - 7.1 | 30 | 56              | 46 | 47 | 37 | 26 | 20 | - |
|                  | 3.30     | 845      | 19.5 | 8.8 - 11.8 - 16.7  | 26.9  | 6.8 - 9.2 - 13.0  | 34.2 | 4.0 - 5.3 - 7.5 | 34 | 59              | 49 | 50 | 41 | 32 | 26 | - |
|                  | 3.68     | 942      | 24.3 | 9.8 - 12.5 - 17.7  | 33.4  | 7.6 - 9.7 - 13.7  | 42.5 | 4.4 - 5.6 - 7.9 | 37 | 62              | 52 | 53 | 45 | 37 | 32 | - |
|                  | 4.06     | 1040     | 29.6 | 10.7 - 13.1 - 18.5 | 40.7  | 8.3 - 10.2 - 14.4 | 51.8 | 4.8 - 5.9 - 8.3 | 40 | 64              | 55 | 56 | 49 | 42 | 37 | - |
| 1219<br>x<br>76  | 0.51     | 35       | 0.5  | 0.2 - 0.5 - 2.0    | 0.6   | 0.2 - 0.4 - 1.5   | 0.8  | 0.1 - 0.2 - 0.9 | -  | -               | -  | -  | -  | -  | -  | - |
|                  | 1.02     | 70       | 1.9  | 0.9 - 2.0 - 4.2    | 2.5   | 0.7 - 1.5 - 3.3   | 3.2  | 0.4 - 0.9 - 1.9 | -  | 26              | 11 | 13 | -  | -  | -  | - |
|                  | 1.52     | 105      | 4.2  | 2.0 - 3.2 - 5.9    | 5.7   | 1.5 - 2.4 - 4.6   | 7.3  | 0.9 - 1.4 - 2.6 | -  | 35              | 23 | 24 | -  | -  | -  | - |
|                  | 2.03     | 139      | 7.4  | 2.8 - 4.2 - 6.8    | 10.2  | 2.2 - 3.3 - 5.3   | 12.9 | 1.3 - 1.9 - 3.1 | 14 | 42              | 30 | 32 | 17 | -  | -  | - |
|                  | 2.54     | 174      | 11.6 | 3.5 - 5.3 - 7.6    | 15.9  | 2.7 - 4.1 - 5.9   | 20.2 | 1.6 - 2.4 - 3.4 | 21 | 47              | 37 | 38 | 26 | 13 | -  | - |
|                  | 3.05     | 209      | 16.7 | 4.2 - 5.9 - 8.3    | 22.9  | 3.3 - 4.6 - 6.4   | 29.1 | 1.9 - 2.6 - 3.7 | 26 | 52              | 42 | 43 | 33 | 22 | 17 | - |
|                  | 3.56     | 244      | 22.7 | 4.9 - 6.4 - 9.0    | 31.2  | 3.8 - 4.9 - 7.0   | 39.6 | 2.2 - 2.9 - 4.0 | 31 | 55              | 46 | 47 | 39 | 30 | 24 | - |
|                  | 4.06     | 279      | 29.6 | 5.5 - 6.8 - 9.6    | 40.7  | 4.3 - 5.3 - 7.4   | 51.8 | 2.5 - 3.1 - 4.3 | 35 | 58              | 49 | 50 | 44 | 36 | 31 | - |
|                  | 4.57     | 314      | 37.5 | 5.9 - 7.2 - 10.2   | 51.5  | 4.6 - 5.6 - 7.9   | 65.5 | 2.6 - 3.2 - 4.6 | 38 | 61              | 53 | 53 | 48 | 42 | 37 | - |
| 1219<br>x<br>102 | 0.51     | 50       | 0.5  | 0.3 - 0.6 - 2.4    | 0.6   | 0.2 - 0.5 - 1.8   | 0.8  | 0.1 - 0.3 - 1.1 | -  | 11              | -  | -  | -  | -  | -  | - |
|                  | 1.02     | 101      | 1.9  | 1.1 - 2.4 - 5.1    | 2.5   | 0.8 - 1.8 - 3.9   | 3.2  | 0.5 - 1.1 - 2.3 | -  | 28              | 13 | 14 | -  | -  | -  | - |
|                  | 1.52     | 151      | 4.2  | 2.4 - 3.8 - 7.1    | 5.7   | 1.8 - 2.9 - 5.5   | 7.3  | 1.1 - 1.7 - 3.2 | -  | 37              | 24 | 25 | -  | -  | -  | - |
|                  | 2.03     | 201      | 7.4  | 3.4 - 5.1 - 8.2    | 10.2  | 2.6 - 3.9 - 6.3   | 12.9 | 1.5 - 2.3 - 3.7 | 16 | 44              | 32 | 33 | 19 | -  | -  | - |
|                  | 2.54     | 252      | 11.6 | 4.2 - 6.3 - 9.1    | 15.9  | 3.3 - 4.9 - 7.1   | 20.2 | 1.9 - 2.8 - 4.1 | 22 | 49              | 38 | 39 | 27 | 15 | -  | - |
|                  | 3.05     | 302      | 16.7 | 5.1 - 7.1 - 10.0   | 22.9  | 3.9 - 5.5 - 7.7   | 29.1 | 2.3 - 3.2 - 4.5 | 28 | 53              | 43 | 44 | 34 | 24 | 18 | - |
|                  | 3.56     | 352      | 22.7 | 5.9 - 7.6 - 10.8   | 31.2  | 4.6 - 5.9 - 8.4   | 39.6 | 2.7 - 3.4 - 4.9 | 32 | 57              | 47 | 48 | 40 | 31 | 26 | - |
|                  | 4.06     | 403      | 29.6 | 6.7 - 8.2 - 11.5   | 40.7  | 5.2 - 6.3 - 8.9   | 51.8 | 3.0 - 3.7 - 5.2 | 36 | 60              | 51 | 52 | 45 | 38 | 33 | - |
|                  | 4.57     | 453      | 37.5 | 7.1 - 8.7 - 12.2   | 51.5  | 5.5 - 6.7 - 9.5   | 65.5 | 3.2 - 3.9 - 5.5 | 40 | 63              | 54 | 55 | 50 | 44 | 39 | - |
| 1219<br>x<br>203 | 0.76     | 168      | 1.0  | 0.9 - 2.0 - 5.7    | 1.4   | 0.7 - 1.5 - 4.4   | 1.8  | 0.4 - 0.9 - 2.5 | -  | 24              | -  | -  | -  | -  | -  | - |
|                  | 1.40     | 309      | 3.5  | 3.0 - 5.2 - 10.1   | 4.8   | 2.3 - 4.0 - 7.8   | 6.1  | 1.3 - 2.3 - 4.5 | -  | 38              | 25 | 26 | -  | -  | -  | - |
|                  | 1.78     | 393      | 5.7  | 4.4 - 6.6 - 11.4   | 7.8   | 3.4 - 5.1 - 8.8   | 9.9  | 2.0 - 3.0 - 5.1 | 15 | 44              | 32 | 33 | 17 | -  | -  | - |
|                  | 2.16     | 477      | 8.4  | 5.4 - 8.0 - 12.6   | 11.5  | 4.1 - 6.2 - 9.7   | 14.6 | 2.4 - 3.6 - 5.7 | 21 | 48              | 37 | 38 | 25 | -  | -  | - |
|                  | 2.54     | 561      | 11.6 | 6.3 - 9.4 - 13.6   | 15.9  | 4.9 - 7.3 - 10.6  | 20.2 | 2.8 - 4.2 - 6.1 | 26 | 52              | 42 | 43 | 31 | 18 | 12 | - |
|                  | 2.92     | 646      | 15.3 | 7.2 - 10.3 - 14.6  | 21.0  | 5.6 - 8.0 - 11.3  | 26.8 | 3.3 - 4.7 - 6.6 | 30 | 56              | 45 | 46 | 36 | 25 | 19 | - |
|                  | 3.30     | 730      | 19.5 | 8.2 - 11.0 - 15.5  | 26.9  | 6.3 - 8.5 - 12.0  | 34.2 | 3.7 - 4.9 - 7.0 | 33 | 58              | 49 | 50 | 41 | 31 | 25 | - |
|                  | 3.68     | 814      | 24.3 | 9.1 - 11.6 - 16.4  | 33.4  | 7.1 - 9.0 - 12.7  | 42.5 | 4.1 - 5.2 - 7.4 | 37 | 61              | 52 | 53 | 45 | 37 | 31 | - |
|                  | 4.06     | 898      | 29.6 | 10.0 - 12.2 - 17.2 | 40.7  | 7.7 - 9.4 - 13.4  | 51.8 | 4.5 - 5.5 - 7.8 | 40 | 63              | 54 | 55 | 49 | 41 | 36 | - |

NOTES: Throw values are given for isothermal conditions and terminal velocities of 0.75, 0.50, and 0.25 m/s. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

## 5DMGSR, 5DMGDR Suggested Specification & Configuration

**1. SERIES: (XXXXX)**

- 5DMGSR - Single Deflection with Blades on 3/4"  
Centers, Aluminum Duct Mounted Grille
- 5DMGDR - Double Deflection With Blades on 3/4"  
Centers, Aluminum Duct Mounted Grille

**2. PATTERN: (X)**

- H - Horizontal (Front) Blades  
V - Vertical (Front) Blades

**3. WIDTH: (XX)**

- 10" - 48" in 1" Increments

**4. HEIGHT: (XX)**

- 3" - Minimum Width 10"  
4" - Minimum Width 10"  
6" - Minimum Width 10"  
8" - Minimum Width 14"  
10" - Minimum Width 16"  
12" - Minimum Width 18" (Maximum Width 36")

**5. DUCT DIAMETER: (XX) \***

- 6" to 36" - For Height of 3"  
6" to 36" - For Height of 4"  
8" to 36" - For Height of 6"  
10" to 36" - For Height of 8"  
12" to 36" - For Height of 10"  
14" to 36" - For Height of 12"

**6. DAMPER: (XX) \*\***

- 00 - No Damper/Extractor  
01 - Damper/Extractor

**7. FINISH: (XX)**

- 81 - Clear Anodize  
01 - Mill  
07 - Custom Color Match  
10 - Alumican  
35 - Black  
44 - British White  
49 - Off White  
81 - Clear Anodize  
84 - Light Bronze Anodize  
85 - Medium Bronze Anodize  
86 - Dark Bronze Anodize

\* Duct diameter available in 2" increments.

\*\* Damper/Extractor must be ordered with the product; cannot be retrofitted.

**5DMGSR**

The single deflection duct mounted supply grille shall be a Krueger model 5DMGSR of the sizes shown on the plans or outlet schedule. This grille must have individually adjustable blades on 3/4" centers with friction pivots made of (.030" - .035") thick extruded aluminum, plastic blade pivots are not acceptable. The frame of the grille must be constructed of (.050" - .062") thick extruded aluminum with countersunk screw holes. The grille frame shall have a gasket to minimize air leakage due to perturbations in the duct. The end caps on the grille shall be curved to match the duct diameter. Standard flat grilles attached to saddle taps will not be acceptable.

**5DMGDR**

The double deflection duct mounted supply grille shall be a Krueger model 5DMGDR of the sizes shown on the plans or outlet schedule. This grille must have individually adjustable blades on 3/4" centers with friction pivots made of (.030" - .035") thick extruded aluminum, plastic blade pivots are not acceptable. The frame of the grille must be constructed of (.050" - .062") thick extruded aluminum with countersunk screw holes. The grille frame shall have a gasket to minimize air leakage due to perturbations in the duct. The end caps on the grille shall be curved to match the duct diameter. Standard flat grilles attached to saddle taps will not be acceptable.

**PERFORMANCE**

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

**FINISH**

The paint finish shall be 81 Clear Anodize or #44 British White.

**SAMPLE CONFIGURATION: 5DMGDR - V - 30x6 - 12 - 01 - 81**

## 5DMGSU, 5DMGDU Suggested Specification & Configuration

### 5DMGSU

The single deflection duct mounted supply grille shall be a Krueger model 5DMGSU of the sizes shown on the plans or outlet schedule. This grille must have individually adjustable blades on 3/4" centers with friction pivots made of (.045" - .055") thick extruded aluminum, plastic blade pivots are not acceptable. The frame of the grille must be constructed of .055" thick extruded aluminum with countersunk screw holes. The grille frame shall have a gasket to minimize air leakage due to perturbations in the duct. The end caps on the grille shall be of a foam gasket material that can conform to the duct diameter. Standard flat grilles attached to saddle taps will not be acceptable.

### 5DMGDU

The double deflection duct mounted supply grille shall be a Krueger model 5DMGDU of the sizes shown on the plans or outlet schedule. This grille must have individually adjustable blades on 3/4" centers with friction pivots made of (.045" - .055") thick extruded aluminum, plastic blade pivots are not acceptable. The frame of the grille must be constructed of .055" thick extruded aluminum with countersunk screw holes. The grille frame shall have a gasket to minimize air leakage due to perturbations in the duct. The end caps on the grille shall be of a foam gasket material that can conform to the duct diameter. Standard flat grilles attached to saddle taps will not be acceptable.

### PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

### FINISH

The paint finish shall be 81 Clear Anodize or #44 British White.

#### 1. SERIES: (XXXXX)

- 5DMGSU - Single Deflection with Blades on 3/4" Centers, Aluminum Duct Mounted Grille
- 5DMGDU - Double Deflection with Blades on 3/4" Centers, Aluminum Duct Mounted Grille

#### 2. PATTERN: (X)

- H - Horizontal (Front) Blades
- V - Vertical (Front) Blades

#### 3. WIDTH: (XX)

- 10" - 48" in 1" Increments

#### 4. HEIGHT: (XX)

- 3" - Minimum Width 10"
- 4" - Minimum Width 10"
- 6" - Minimum Width 10"
- 8" - Minimum Width 14"
- 10" - Minimum Width 16"

#### 5. DUCT DIAMETER: (XX) \*

- 6" to 36" - For Height of 3"
- 10" to 36" - For Height of 4"
- 12" to 36" - For Height of 6"
- 20" to 36" - For Height of 8"
- 24" to 36" - For Height of 10"

#### 6. DAMPER: (XX) \*\*

- 00 - No Damper/Extractor
- 01 - Damper/Extractor

#### 7. FINISH: (XX)

- 81 - Clear Anodize
- 01 - Mill
- 07 - Custom Color Match
- 10 - Alumican
- 35 - Black
- 44 - British White
- 49 - Off White
- 81 - Clear Anodize
- 84 - Light Bronze Anodize
- 85 - Medium Bronze Anodize
- 86 - Dark Bronze Anodize

\* Duct diameter available in 2" increments.

\*\* Damper/Extractor must be ordered with the product; cannot be retrofitted.

**SAMPLE CONFIGURATION: 5DMGDU - V - 30x6 - 12 - 01 - 81**