

PERFORMANCE DATA:

MODEL SERIES: 45DLC SPIRAL DUCT DRUM LOUVER AND 45DL DRUM LOUVER • 12" (305)

| SIZE | Neck Velocity, FPM Velocity Pressure | 265 .004 | 400 .010 | 530 .018 | 660 .027 | 795 .039 | 930 .054 | 1060 .070 | 1325 .109 | 1600 .160 |
|---------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
| 18 x 12 | Airflow, CFM | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 2000 | 2400 |
| | Total Pressure | .033 | .08 | .14 | .22 | .30 | .44 | .55 | .86 | 1.04 |
| | Throw | 14-20-34 | 19-27-46 | 24-34-60 | 30-40-70 | 35-47-78 | 38-56-95 | 44-60-100 | 50-70-120 | 55-80-130 |
| | Noise Criteria | – | – | – | 25 | 32 | 36 | 40 | 47 | 52 |
| 24 x 12 | Airflow, CFM | 530 | 795 | 1060 | 1325 | 1590 | 1855 | 2120 | 2650 | 3180 |
| | Total Pressure | .03 | .07 | .13 | .20 | .29 | .42 | .53 | .82 | 1.10 |
| | Throw | 17-24-42 | 24-34-54 | 26-37-64 | 35-47-78 | 38-56-95 | 45-65-110 | 52-72-120 | 65-85-140 | 72-98-160 |
| | Noise Criteria | – | – | – | 27 | 32 | 35 | 40 | 46 | 52 |
| 30 x 12 | Airflow, CFM | 665 | 998 | 1330 | 1662 | 1993 | 2328 | 2660 | 3324 | 3990 |
| | Total Pressure | .03 | .06 | .10 | .14 | .21 | .28 | .35 | .58 | .80 |
| | Throw | 18-25-44 | 26-37-64 | 33-45-76 | 37-54-90 | 45-65-110 | 50-70-120 | 58-80-130 | 67-92-155 | 85-110-180 |
| | Noise Criteria | – | – | 21 | 27 | 32 | 38 | 40 | 48 | 54 |
| 36 x 12 | Airflow, CFM | 800 | 1200 | 1600 | 2000 | 2400 | 2800 | 3200 | 4000 | 4800 |
| | Total Pressure | .03 | .05 | .08 | .12 | .17 | .22 | .30 | .46 | .63 |
| | Throw | 22-31-54 | 30-44-74 | 38-54-90 | 46-64-110 | 50-70-120 | 58-80-135 | 65-90-150 | 78-105-180 | 90-120-200 |
| | Noise Criteria | – | – | 22 | 28 | 34 | 38 | 42 | 50 | 55 |
| 42 x 12 | Airflow, CFM | 930 | 1395 | 1860 | 2325 | 2790 | 3255 | 3720 | 4650 | 5580 |
| | Total Pressure | .03 | .05 | .10 | .16 | .22 | .31 | .40 | .62 | .80 |
| | Throw | 25-35-60 | 34-46-80 | 44-58-100 | 50-70-120 | 58-80-130 | 65-90-150 | 75-100-170 | 85-115-200 | 100-140-230 |
| | Noise Criteria | – | – | 26 | 31 | 35 | 41 | 45 | 52 | 55 |
| 48 x 12 | Airflow, CFM | 1065 | 1598 | 2130 | 2663 | 3195 | 3728 | 4260 | 5326 | 6390 |
| | Total Pressure | .03 | .06 | .08 | .14 | .20 | .28 | .36 | .56 | .80 |
| | Throw | 25-33-53 | 35-46-80 | 44-56-96 | 52-70-115 | 58-78-125 | 60-98-150 | 75-100-170 | 88-120-210 | 100-140-230 |
| | Noise Criteria | – | – | 26 | 31 | 36 | 41 | 45 | 52 | 55 |
| 54 x 12 | Airflow, CFM | 1200 | 1800 | 2400 | 3000 | 3600 | 4200 | 4800 | 6000 | 7200 |
| | Total Pressure | .03 | .06 | .11 | .17 | .25 | .34 | .42 | .68 | .95 |
| | Throw | 28-37-65 | 37-50-88 | 46-62-108 | 56-75-130 | 65-85-145 | 72-98-160 | 80-105-180 | 95-125-220 | 110-150-250 |
| | Noise Criteria | – | – | 24 | 31 | 36 | 41 | 45 | 52 | 55 |
| 60 x 12 | Airflow, CFM | 1350 | 2025 | 2700 | 3375 | 4050 | 4725 | 5400 | 6750 | 8100 |
| | Total Pressure | .03 | .06 | .11 | .17 | .22 | .30 | .38 | .58 | .83 |
| | Throw | 28-37-65 | 42-56-100 | 47-63-110 | 54-74-130 | 64-84-150 | 72-100-170 | 80-110-190 | 92-120-240 | 110-140-260 |
| | Noise Criteria | – | – | 20 | 28 | 33 | 37 | 42 | 48 | 54 |
| 72 x 12 | Airflow, CFM | 1600 | 2400 | 3200 | 4000 | 4800 | 5600 | 6400 | 8000 | 9600 |
| | Total Pressure | .03 | .06 | .11 | .17 | .22 | .30 | .38 | .58 | .83 |
| | Throw | 32-42-72 | 42-54-100 | 52-72-120 | 62-74-140 | 72-100-170 | 82-110-190 | 92-120-240 | 110-140-260 | 120-160-290 |
| | Noise Criteria | – | – | 25 | 31 | 36 | 41 | 45 | 52 | 55 |

Performance Notes:

- All pressures are in inches w.g..
- Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Total pressure, throw and Noise Criteria are based on 45DL1 at 0° deflection. Correction factors for other conditions are listed in the chart.

- Noise Criteria (NC) values are based upon 10dB room absorption, re 10⁻¹² watts. Dash (–) in space indicates an Noise Criteria of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Correction Factor

| Model | Deflection | TP | Throw | NC |
|-------|------------|-------|-------|-----|
| 45DL1 | 15° | x 1.5 | x .85 | + 4 |
| | 30° | x 1.9 | x .73 | + 9 |
| 45DL2 | 0° | x 1.3 | — | — |
| | 15° | x 1.7 | x .85 | +4 |
| | 30° | x 2.2 | x .73 | +9 |