

**PERFORMANCE DATA**

**Model: DCF1 Type L • Ceiling Mount • Flat Face**

| Unit Size<br>W x H x D<br>(inches) | Inlet Size<br>(inches) | Core Area<br>(ft <sup>2</sup> ) | Face Velocity<br>(FPM) | Airflow<br>(CFM) | Total<br>Pressure<br>(in. w.g.) | Static<br>Pressure<br>(in. w.g.) | Noise<br>Criteria<br>NC | Adjacent Zone           |                          |
|------------------------------------|------------------------|---------------------------------|------------------------|------------------|---------------------------------|----------------------------------|-------------------------|-------------------------|--------------------------|
|                                    |                        |                                 |                        |                  |                                 |                                  |                         | $\Delta T = 5^{\circ}F$ | $\Delta T = 10^{\circ}F$ |
|                                    |                        |                                 |                        |                  |                                 |                                  |                         | Radius (ft)             | Radius (ft)              |
| 24 x 12                            | 6                      | 1.37                            | 20                     | 27               | .007                            | .006                             | —                       | —                       | —                        |
|                                    |                        |                                 | 30                     | 41               | .016                            | .013                             | —                       | —                       | 1                        |
|                                    |                        |                                 | 40                     | 55               | .029                            | .024                             | —                       | 1                       | 2                        |
|                                    |                        |                                 | 50                     | 69               | .045                            | .037                             | 15                      | 1                       | 3                        |
| 24 x 24                            | 8                      | 3.14                            | 20                     | 63               | .012                            | .010                             | —                       | 1                       | 2                        |
|                                    |                        |                                 | 30                     | 94               | .027                            | .023                             | —                       | 2                       | 3                        |
|                                    |                        |                                 | 40                     | 126              | .049                            | .041                             | 17                      | 3                       | 4                        |
|                                    |                        |                                 | 50                     | 157              | .076                            | .063                             | 22                      | 4                       | 4                        |
| 48 x 12                            | 8                      | 2.91                            | 20                     | 58               | .010                            | .008                             | —                       | 1                       | 2                        |
|                                    |                        |                                 | 30                     | 87               | .022                            | .018                             | —                       | 2                       | 3                        |
|                                    |                        |                                 | 40                     | 116              | .040                            | .033                             | 16                      | 3                       | 3                        |
|                                    |                        |                                 | 50                     | 145              | .062                            | .051                             | 19                      | 4                       | 4                        |
| 48 x 24                            | 10                     | 6.68                            | 20                     | 134              | .016                            | .013                             | —                       | 2                       | 3                        |
|                                    |                        |                                 | 30                     | 200              | .037                            | .028                             | 18                      | 3                       | 4                        |
|                                    |                        |                                 | 40                     | 267              | .065                            | .050                             | 26                      | 4                       | 4                        |
|                                    |                        |                                 | 50                     | 334              | .102                            | .079                             | 32                      | 4                       | 5                        |
| 60 x 24                            | 12                     | 8.45                            | 20                     | 169              | .017                            | .014                             | —                       | 3                       | 3                        |
|                                    |                        |                                 | 30                     | 254              | .038                            | .031                             | 17                      | 4                       | 4                        |
|                                    |                        |                                 | 40                     | 338              | .067                            | .055                             | 24                      | 5                       | 6                        |
|                                    |                        |                                 | 50                     | 423              | .105                            | .087                             | 31                      | 5                       | 6                        |
| 72 x 24                            | 12                     | 10.22                           | 20                     | 204              | .022                            | .018                             | —                       | 4                       | 4                        |
|                                    |                        |                                 | 30                     | 307              | .050                            | .041                             | 20                      | 4                       | 5                        |
|                                    |                        |                                 | 40                     | 409              | .089                            | .072                             | 29                      | 5                       | 6                        |
|                                    |                        |                                 | 50                     | 511              | .139                            | .113                             | 38                      | 6                       | 7                        |

**Performance Notes:**

1. Face velocity is in feet per minute, FPM.
2. Airflow is in cubic feet per minute, CFM.
3. Pressure is in inches water gauge, in. w.g.
4. NC (Noise Criteria) values are based on 10 dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates a NC of less than 15.
5. Diffuser was mounted in a 9 ft. ceiling in free space with no sidewall effect.
6. Adjacent Zone size represents the throw distance in feet from on the floor directly under the diffuser to a terminal velocity of 40 fpm measured at 1" above the floor.
7.  $\Delta T$  is the temperature difference between the supply air and the room temperature measured at 42" above the floor.
8. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006 and the Nordtest Low Velocity Method NT VVS 083.