

PERFORMANCE DATA

Ceiling Diffuser Directional Cold Aisle - MODEL CDDCA

| | | DAMPER OPEN | | | | | | |
|------------|---|-------------|---------|----------|----------|----------|----------|----------|
| Inlet Size | Neck Velocity | 200 | 400 | 600 | 700 | 800 | 900 | 1000 |
| | Velocity Pressure | 0.002 | 0.010 | 0.022 | 0.031 | 0.040 | 0.050 | 0.062 |
| 15" x 15" | CFM | 315 | 625 | 940 | 1095 | 1250 | 1405 | 1565 |
| | Pt | 0.006 | 0.024 | 0.055 | 0.075 | 0.098 | 0.123 | 0.153 |
| | Throw* | 1-2-6 | 4-6-11 | 6-9-14 | 7-10-14 | 8-11-15 | 9-12-16 | 10-13-17 |
| | Throw (supply 20°F below conditioned area) | 1-2-9 | 4-9-31 | 9-20-40 | 12-27-42 | 16-31-45 | 20-34-48 | 16-36-54 |
| | Throw (supply 20°F above conditioned area) | 1-2-6 | 3-6-22 | 6-14-27 | 8-19-29 | 11-22-32 | 14-23-33 | 17-24-35 |
| | NC | - | - | - | 17 | 24 | 33 | 39 |
| 18" x 18" | CFM | 450 | 900 | 1350 | 1575 | 1800 | 2025 | 2250 |
| | Pt | 0.006 | 0.024 | 0.055 | 0.075 | 0.098 | 0.124 | 0.153 |
| | Throw* | 1-3-7 | 5-7-14 | 7-11-16 | 8-13-17 | 10-14-19 | 11-14-20 | 12-15-21 |
| | Throw (supply 20°F below conditioned area) | 1-3-11 | 5-11-36 | 11-24-47 | 14-35-50 | 19-36-54 | 24-41-58 | 30-43-60 |
| | Throw (supply 20°F above conditioned area) | 1-2-7 | 4-7-26 | 7-16-32 | 10-23-35 | 13-26-37 | 16-28-46 | 20-30-41 |
| | NC | - | - | - | 19 | 28 | 35 | 40 |

| | | DAMPER CLOSED | | | | | | |
|------------|-------------------|---------------|---------|----------|----------|----------|----------|----------|
| Inlet Size | Neck Velocity | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| | Velocity Pressure | 0.002 | 0.006 | 0.010 | 0.016 | 0.022 | 0.031 | 0.040 |
| 15" x 15" | CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| | Pt | 0.016 | 0.035 | 0.062 | 0.097 | 0.140 | 0.191 | 0.249 |
| | Throw* | 3-5-14 | 5-11-17 | 9-14-19 | 12-15-22 | 14-17-23 | 14-18-25 | 16-19-27 |
| | NC | - | - | - | 16 | 18 | 32 | 41 |
| 18" x 18" | CFM | 340 | 505 | 675 | 845 | 1015 | 1180 | 1350 |
| | Pt | 0.016 | 0.035 | 0.062 | 0.098 | 0.141 | 0.190 | 0.249 |
| | Throw* | 3-6-16 | 6-13-20 | 11-16-23 | 14-18-26 | 16-25-29 | 18-22-31 | 19-23-32 |
| | NC | - | - | - | 17 | 22 | 33 | 42 |

PERFORMANCE NOTES FOR SERIES CDDCA

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Pt Total pressure (inches of water column)

Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands