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**COMMERCIAL CIRCULAR
DIFFUSER
CCD250**



COMMERCIAL CIRCULAR DIFFUSER CCD250

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Commercial Circular Diffuser (CCD250) is crafted from high-grade lightweight spun aluminium material, offering durability and style. Designed for flush ceiling-mounted applications, this modern and sleek diffuser adds a touch of sophistication to any space. The CCD250 is a multi-coned Supply Air Diffuser suitable for both heating and cooling purposes.

For exposed ceiling applications, the CCD250 can be conveniently fitted directly into Airfoil's Supply Air Cushion Box (ICB) using an accompanying matching Metal Spigot Collar. Alternatively, the product comes complete with optional Fixing Clips and a Butterfly Damper for easy installation into a plasterboard ceiling.

Additionally, the diffuser features a removable core center that can be easily rotated anti-clockwise for quick removal, allowing for straightforward installation of flexible duct directly to the neck of the diffuser.

Available in 5 sizes and offered in our standard white range, the CCD250 can also be powder-coated to any specified colour upon request. This versatile product is suitable for a variety of commercial applications, including shopping centres, shop fit-outs, airports, cinemas, restaurants, food courts, universities, and any other commercial settings where variable air patterns are required.

COMMERCIAL CIRCULAR DIFFUSER CCD250

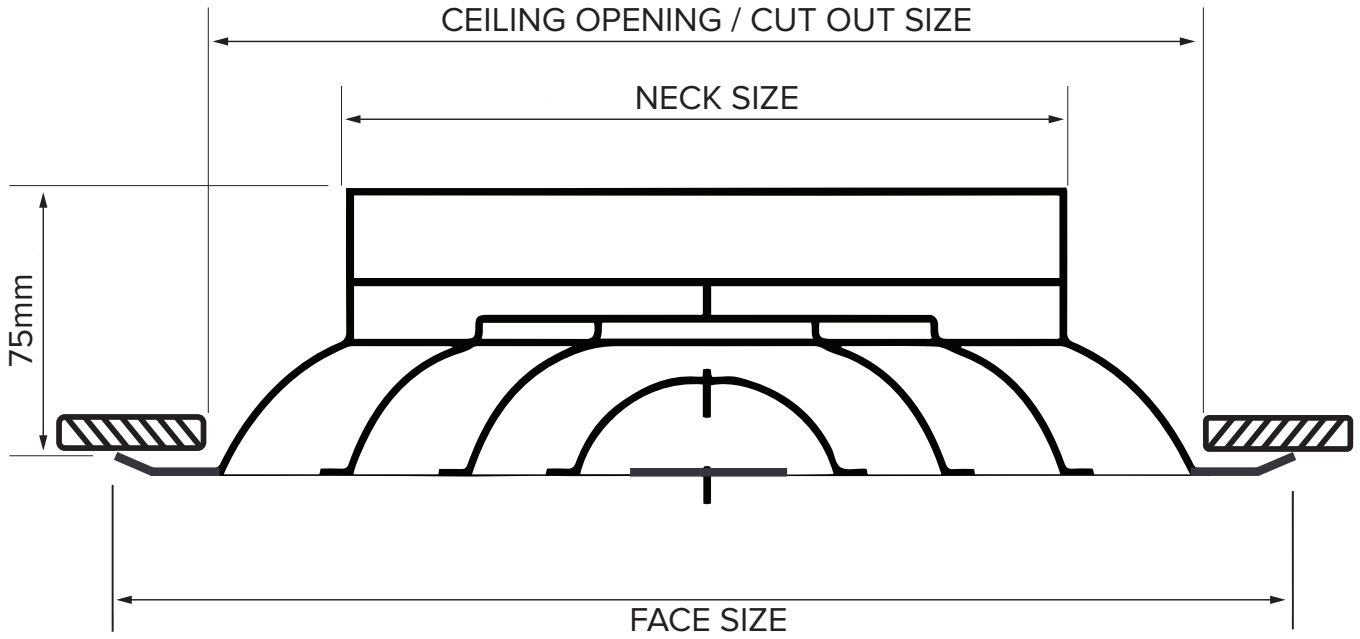
PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – CCD250**
- Constructed from high-grade light weight spun aluminium
- Neck size 250mm to suit 250mm diameter flexible duct attachment
- Face Size 360mm
- Frame depth 75mm
- Cut out size 315mm
- Used for supply air heating and cooling applications
- Capable of handling high airflow rates
- Ideal for flush ceiling mounted or exposed duct work applications
- Available with optional fixing clips for mounting
- Comes with optional Butterfly Damper for air balancing
- Available in our standard white range
- Special powder-coated colours available on request
- Optional Supply Air Cushion Box (ICB) to suit CCD250 diffuser
- Product suitable for a variety of commercial applications such as shopping centres, shop fit-outs, airports, cinemas, restaurants, food courts, universities or in any commercial application where variable air patterns are required
- Airfoil tested information available



COMMERCIAL CIRCULAR DIFFUSER CCD250

CROSS SECTIONAL DIAGRAM



DISCLAIMER:

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COMMERCIAL CIRCULAR DIFFUSER CCD250

PERFORMANCE DATA

| Size/Code | Performance Data | Commercial Circular Diffuser | | | | | |
|-----------|-----------------------------|------------------------------|-----|-----|-----|-----|-----|
| CCD250 | Lit/sec | 85 | 130 | 175 | 220 | 265 | 305 |
| | NR | <20 | 25 | 32 | 37 | 41 | 44 |
| | Tot. Press (Pa) | 5 | 12 | 21 | 33 | 46 | 62 |
| | Rad. of diffusion/m (throw) | 1.8 | 2.9 | 3.7 | 4.8 | 5.7 | 6.5 |

COMMERCIAL CIRCULAR DIFFUSER - OPTIONAL SIZES

| Size/Code | Performance Data | Commercial Circular Diffuser | | | | | |
|-----------|-----------------------------|------------------------------|-----|-----|-----|-----|-----|
| CCD150 | Lit/sec | 30 | 45 | 60 | 75 | 90 | 100 |
| | NR | <20 | <20 | 25 | 30 | 35 | 40 |
| | Tot. Press (Pa) | 4 | 10 | 18 | 28 | 42 | 52 |
| | Rad. of diffusion/m (throw) | 1 | 1.5 | 2.1 | 2.3 | 3.3 | 3.7 |

| Size/Code | Performance Data | Commercial Circular Diffuser | | | | | |
|-----------|-----------------------------|------------------------------|-----|-----|-----|-----|-----|
| CCD200 | Lit/sec | 55 | 80 | 105 | 135 | 160 | 190 |
| | NR | <20 | <20 | 28 | 34 | 39 | 42 |
| | Tot. Press (Pa) | 5 | 12 | 19 | 31 | 44 | 60 |
| | Rad. of diffusion/m (throw) | 1.4 | 2.1 | 2.8 | 3.7 | 4.4 | 5 |

| Size/Code | Performance Data | Commercial Circular Diffuser | | | | | |
|-----------|-----------------------------|------------------------------|-----|-----|-----|-----|-----|
| CCD250 | Lit/sec | 85 | 130 | 175 | 220 | 265 | 305 |
| | NR | <20 | 25 | 32 | 37 | 41 | 44 |
| | Tot. Press (Pa) | 5 | 12 | 21 | 33 | 46 | 62 |
| | Rad. of diffusion/m (throw) | 1.8 | 2.9 | 3.7 | 4.8 | 5.7 | 6.5 |

| Size/Code | Performance Data | Commercial Circular Diffuser | | | | | |
|-----------|-----------------------------|------------------------------|-----|-----|-----|-----|-----|
| CCD300 | Lit/sec | 125 | 190 | 260 | 325 | 385 | 445 |
| | NR | <20 | 27 | 33 | 38 | 43 | 47 |
| | Tot. Press (Pa) | 6 | 12 | 22 | 34 | 49 | 65 |
| | Rad. of diffusion/m (throw) | 2.2 | 3.4 | 4.5 | 5.7 | 6.8 | 8 |

| Size/Code | Performance Data | Commercial Circular Diffuser | | | | | |
|-----------|-----------------------------|------------------------------|-----|-----|-----|------|------|
| CCD350 | Lit/sec | 225 | 235 | 450 | 560 | 670 | 780 |
| | NR | 25 | 35 | 40 | 45 | 50 | 55 |
| | Tot. Press (Pa) | 10 | 22 | 39 | 60 | 85 | 115 |
| | Rad. of diffusion/m (throw) | 3.5 | 5.4 | 7 | 8.8 | 10.5 | 12.2 |