



SD-Q-LQ



CIRCULAR DIFFUSER
FACE

TYPE SD

FOR INSTALLATION INTO STEPS AND FLOOR AREAS WITH NO FOOT TRAFFIC

Circular and square staircase swirl diffusers

- Nominal size 180 mm
- Volume flow rate range 10 – 25 l/s or 36 – 90 m³/h
- Diffuser face made of sheet steel, powder-coated
- For variable and constant volume flows
- For false floors and positive pressure plenums
- Installation into the risers of steps or into horizontal or sloping floor areas which do not carry foot traffic
- High induction results in a rapid reduction of the temperature difference and airflow velocity
- Low sound power level due to optimised air distribution inside the diffuser

Optional equipment and accessories

- Exposed diffuser face available in RAL CLASSIC colours
- Spigot
- Cross bar

Application



Application

- Type SD staircase swirl diffusers are primarily used as supply air diffusers for comfort conditioning applications
- For auditoriums in theatres, cinemas or concert halls
- Supply air discharge directly to the occupied zone
- Swirling air discharge, either parallel to the installation surface or angled, for mixed flow ventilation
- The efficient swirl creates high induction levels, thereby rapidly reducing the temperature difference and airflow velocity (supply air variant)
- For variable and constant volume flows
- For supply air to room air temperature differences from –6 to +6 K
- For false floors and positive pressure plenums
- Installation into the risers of steps or into horizontal or sloping floor areas which do not carry foot traffic

Special characteristics

- High induction results in a rapid reduction of the temperature difference and airflow velocity
- Air discharge either parallel to the installation surface or angled
- Excellent air quality since the supply air is discharged directly to the occupied zone
- Installation into the risers of steps and into floor areas which do not carry foot traffic

Nominal sizes

- 180

Description



Variants

- SD-Q-LQ: Square diffuser face, square face style
- SD-Q-LR: Square diffuser face, circular face style
- SD-R-LR: Circular diffuser face, circular face style

Parts and characteristics

- Square or circular diffuser face with four sections of blades
- Diffuser face with fixed air control blades
- Angled air discharge from diffuser fixed to cross bar
- Air discharge parallel to the installation surface from diffuser fixed to spigot
- Simple installation of the diffuser face due to central fixing screw with decorative cap

Attachments

- S: Spigot
- T: Cross bar

Construction features

- Spigot suitable for circular ducts to EN 1506 or EN 13180

Materials and surfaces

- Diffuser face made of sheet steel
- Cross bar and spigot made of galvanised sheet steel
- Spigot dip coated similar to RAL 9005, black
- Exposed diffuser face powder-coated RAL 9010, pure white
- P1: Powder-coated, RAL CLASSIC colour

Standards and guidelines

- Sound power level of the air-regenerated noise measured according to EN ISO 5135

Maintenance

- Maintenance-free as construction and materials are not subject to wear
- Inspection and cleaning to VDI 6022

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