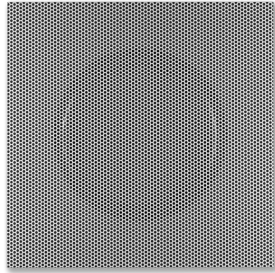
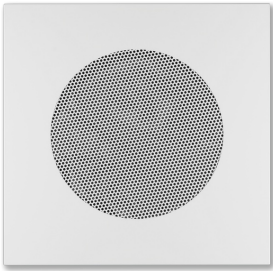


DCS-P-V



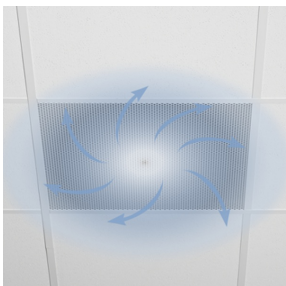
PERFORATED DIFFUSER
FACE



DIFFUSER FACE PLATE
WITH PERFORATED
CIRCULAR FACE STYLE



DIFFUSER FACE PLATE
WITH PERFORATED
CIRCULAR FACE STYLE
AND EXPOSED
DISCHARGE NOZZLE



HORIZONTAL SWIRLING
AIR DISCHARGE

DCS

FOR HORIZONTAL SWIRLING SUPPLY AIR DISCHARGE CREATING HIGH INDUCTION LEVELS, WITH FIXED AIR CONTROL BLADES

Square ceiling swirl diffusers with perforated face plate, for comfort and industrial zones

- Nominal sizes 600, 625
- Volume flow rate range 4 – 260 l/s or 16 – 936 m³/h
- Perforated diffuser face made of galvanised sheet steel, powder-coated
- For supply and extract air
- For variable and constant volume flows
- For all types of ceiling systems, particularly for T-bar ceilings
- Swirl unit inside, 6 sizes, for the best swirl effect and high induction levels
- Ideal for comfort zones

Optional equipment and accessories

- Exposed diffuser face available in RAL CLASSIC colours
- Horizontal or vertical duct connection
- Plenum box with lining

Application



Application

- Type DCS ceiling swirl diffusers are preferably used as supply air diffusers for comfort and industrial zones
- Perfect integration with suspended perforated sheet metal ceilings
- Horizontal swirling supply air discharge 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 –12 to +10 K
- For room heights up to 4 m (lower edge of suspended ceiling)
- For T-bar ceilings

Special characteristics

- Horizontal air discharge creating high induction levels
- Design variants with perforated square or circular diffuser face style
- For T-bar ceilings
- Horizontal or vertical duct connection

Nominal sizes

- Diffuser face: 593, 598, 618, 623
- Swirl diffuser: 125, 160, 200, 250, 315, 400

Description



Variants

- DCS-P: Perforated diffuser face
- DCS-N: Unperforated diffuser face
- DCS-C: Diffuser face with exposed discharge nozzle

Installation type

- V: Exposed T-bars

- H: Concealed T-bars

Connection

- K: Vertical duct connection, with duct collar
- US: Vertical duct connection, with transition piece
- A: Horizontal duct connection, with plenum box
- AK: Horizontal duct connection, with plenum box and lining

Parts and characteristics

- Square diffuser face
- V: For T-bar ceilings with exposed T-bars
- H: For T-bar ceilings with concealed T-bars
- Swirl unit with radially arranged fixed air control blades

Construction features

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

Materials and surfaces

- Diffuser face, discharge nozzle, swirl unit, duct collar and plenum box made of galvanised sheet steel
- Transition piece made of aluminium
- Plenum box lining is mineral wool
- Swirl unit and discharge nozzle dip coated RAL 9005, jet black
- Diffuser face and discharge nozzle powder-coated RAL 9010, pure white
- P1: Powder-coated, RAL CLASSIC colour

Mineral wool

- To EN 13501, fire rating class A1, non-combustible
- RAL quality mark RAL-GZ 388
- Biosoluble and hence hygienically safe according to the German TRGS 905 (Technical Rules for Hazardous Substances) and EU directive 97/69/EC
- Faced with glass fibre fabric as a protection against erosion through airflow velocities of up to 20 m/s
- Inert to fungal and bacterial growth

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