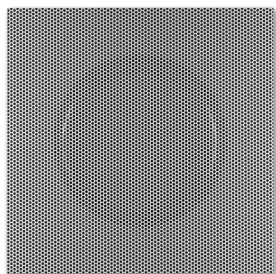
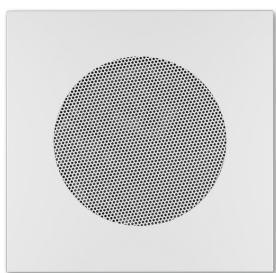


DCS-P-V



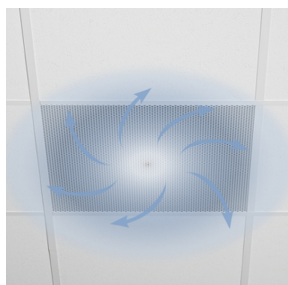
PERFORATED DIFFUSER  
FACE



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