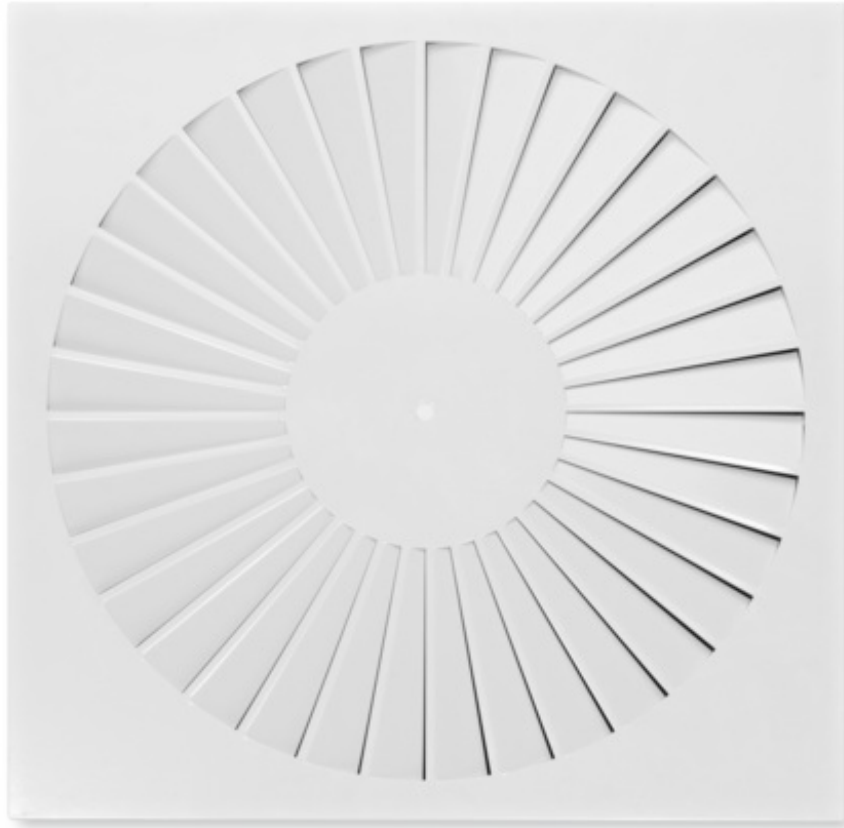


## Type FD



### FOR COMFORT ZONES, WITH FIXED AIR CONTROL BLADES

Circular and square ceiling swirl diffusers that create high induction levels, for high room air change rates

- Nominal sizes 300, 400, 500, 600, 625
- Volume flow rate range 9 – 235 l/s or 31 – 846 m<sup>3</sup>/h
- 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, and with an extended border also suitable for freely suspended installation
- High induction results in a rapid reduction of the temperature difference and airflow velocity
- Air change rates of up to 35 per hour can be achieved by arranging several diffusers in a row with a minimum pitch of 0.9 m (centre line to centre line)
- Ideal for comfort zones

## Optional equipment and accessories

- Exposed diffuser face available in RAL CLASSIC colours
- Plenum box with cord-operated damper blade and pressure tap
- Acoustically optimised plenum box FLEXTRO



## APPLICATION

### Application

- Type FD ceiling swirl diffusers are used as supply air or extract air diffusers for comfort zones
- Attractive design element for building owners and architects with demanding aesthetic requirements
- 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 from  $-12$  to  $+10$  K
- For room heights up to 4 m (lower edge of suspended ceiling)
- For all types of ceiling systems
- With an extended border also suitable for freely suspended installation (supply air variant)

### Special characteristics

- High induction results in a rapid reduction of the supply air to room air temperature difference and airflow velocity
- For all types of ceiling systems, and with an extended border also suitable for freely suspended installation
- Horizontal or vertical duct connection
- Air change rates of up to 35 per hour can be achieved by arranging several diffusers in a row with a minimum pitch of 0.9 m (centre line to centre line)

### Nominal sizes

- 300, 400, 500, 600, 625

## DESCRIPTION

### Variants

- FD-Q: Square diffuser face
- FD-R: Circular diffuser face
- FD-\*-Z: Supply air
- FD-\*-A: Extract air

### Connection

- H: Horizontal duct connection
- V: Vertical duct connection
- X: Flexible plenum box FLEXTRO

### Parts and characteristics

- Circular or square diffuser face
- Diffuser face with radially arranged fixed air control blades
- Plenum box for supply air, with an optimised equalising element that ensures a uniform airflow through the diffuser face
- Simple installation of the diffuser face due to central fixing screw with decorative cap
- Damper blade for volume flow rate balancing (optional)

### Attachments

- M: Damper blade for volume flow rate balancing
- MN: Pressure tap and cord-operated damper blade for volume flow rate balancing with the diffuser face in place

### Accessories

- Lip seal

### Construction features

- Spigot suitable for circular ducts to EN 1506 or EN 13180
- Spigot with groove for lip seal (if accessory lip seal has been ordered)

#### **Materials and surfaces**

- Grille face made of galvanised sheet steel
- V, H: Plenum box and cross bar made of galvanised sheet steel
- X: Plenum box made of plastic and galvanised sheet steel
- Lip seal made of rubber
- 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

## TROX UK Ltd

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Caxton Way,  
Thetford, Norfolk, IP24 3SQ, UK  
Tel: +44 (0) 1842 754545  
Fax: +44 (0) 1842 763051

General Enquiries –

[info@troxuk.co.uk](mailto:info@troxuk.co.uk)

Sales & Customer Services –

[sales@troxuk.co.uk](mailto:sales@troxuk.co.uk)

Accounts –

[accounts@troxuk.co.uk](mailto:accounts@troxuk.co.uk)

## Online-Services

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TROX Academy

---

Your contact partner

---

Our Office London

---

Our Office Thetford

---

## Service-Hotlines

---

Sales:

+44 (0)1842 754545

[Contact](#)

Service:

+44 (0)1842 754545

[Contact](#)

Technical service

+44 (0)1842 754545

[Contact](#)