

## The art of handling air

### Type QLV



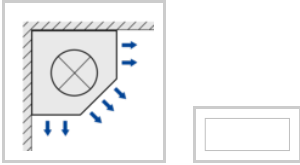
### POLYGON CASING, 90° OR 180° AIR DISCHARGE, FOR COMFORT AND INDUSTRIAL ZONES

#### Polygon displacement flow diffusers

- Spigot diameter 160 – 630 mm, nominal height 500 – 1750 mm
- Volume flow rate range 17 – 915 l/s or 62 – 3295 m<sup>3</sup>/h
- Perforated plate, square pitch
- Circular duct connection
- Duct connection at the top or bottom
- Integral airflow straightener and conical equalising element

#### Optional equipment and accessories

- Wall mount
- Damper blade for volume flow rate balancing
- Exposed surface in RAL CLASSIC colours



### Application

- Type QLV displacement flow diffusers are used as supply air units for industrial and comfort zones
- Attractive design element for building owners and architects with demanding aesthetic requirements
- Floor-standing installation on walls or in corners
- Low-velocity airflow, causing only low levels of induction and resulting in low-turbulence displacement ventilation.
- Excellent air quality in the occupied zone
- Draught-free and economical ventilation and air conditioning also of larger internal spaces such as shop floors or auditoriums, with several displacement flow diffusers in a regular arrangement
- For variable and constant volume flows
- For supply air to room air temperature differences from  $-6$  to  $-1$  K

### Special characteristics

- Three-way or five-way air discharge
- Duct connection at the top or bottom
- Optional damper blade for volume flow rate balancing

### Nominal sizes

- $\varnothing$ D: 160, 200, 250, 315, 400, 500, 630 mm
- H: 500, 600, 800, 1000, 1250, 1500, 1750 mm

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### Variants

- QLV-90: 90° air discharge
- QLV-180: 180° air discharge
- QLV-...-O: Spigot at the top
- QLV-...-U: Spigot at the bottom

### Parts and characteristics

- Polygon casing
- Equalising element and airflow straightener that ensure a uniform supply air discharge
- Lip seal, optional for QLV-...-O

### Attachments

- Damper blade for volume flow rate balancing

### Accessories

- Lip seal
- Wall mount

### Construction features

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

### Materials and surfaces

- Top cover, base, spigot and side parts made of galvanised sheet steel
- S7: Top cover and base made of aluminium
- Corner and edge trims are extruded aluminium sections
- Airflow straightener made of plastic
- Equalising element made of synthetic fibres
- Lip seal made of rubber
- Surface powder-coated RAL 9010, pure white
- P1: Powder-coated, RAL CLASSIC colour
- S7: Surface galvanised

### 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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### TECHNICAL INFORMATION

Function, Technical data, Quick sizing, Specification text, Order code ^

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Variants, Accessories, Dimensions and weight v

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Installation details, Basic information and nomenclature v

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#### TROX GmbH

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