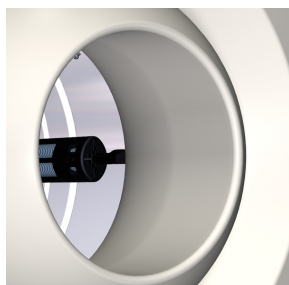


**TJN**

TJN with swirl unit and cap for throw distance reduction



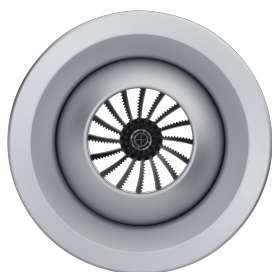
**THERMAL ACTUATOR WITH SHAPE MEMORY ALLOY**

Thermal actuator with shape memory alloy



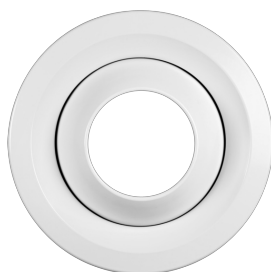
**DISCHARGE ANGLE INDICATOR**

Discharge angle indicator



**THROW DISTANCE 65%**

TJN with swirl unit and cap for throw distance reduction



**TJN IN WHITE, SIMILAR TO RAL 9010**

TJN in white, similar to RAL 9010



**TJN WITH OUTER CASING**

TJN with outer casing

## TJN

**ACOUSTICALLY AND TECHNICALLY OPTIMISED, FOR INSTALLATION IN WALLS AND ON RECTANGULAR AND CIRCULAR DUCTS, ADJUSTABLE – MADE OF PLASTIC**

The new TJN jet nozzle offers improved acoustic characteristics and is also more energy-efficient

- Nominal sizes: 160, 200, 250, 315 and 400 mm
- Volume flow rate range 20 – 1000 l/s or 72 – 3600 m<sup>3</sup>/h
- Visible parts made of high-grade polymer in white aluminium or pure white
- Optimised nozzle contours
- Discharge angle indication, discharge angle limiting and setting -30 – +30 on a concealed scale
- Easy-to-remove face cover ring with bayonet fixing

### Optional equipment and accessories

- 5 nominal sizes, each with a circular spigot or, as an option, with a connection piece for circular or rectangular ducts
- Swirl unit with acoustically optimised air control blades with unique saw tooth edges and cap for two-step reduction of the throw distance
- External electric actuator of compact height
- Electric actuator allows for integration with the central BMS
- Internal thermal actuator with shape memory alloy for the self-powered adjustment of the discharge angle
- All variants also available with outer casing

## General information

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### Application

- Jet nozzles as supply air diffuser, with a long throw distance
- For production halls, gymnasiums, theatres and conference rooms as well as for large internal spaces in airports, railway stations and shopping centres
- Attractive design element for building owners and architects with demanding aesthetic requirements
- For supply air to room air temperature differences from -12 – +20 K
- Adjustable discharge angle, from -30 - +30°, for switching between heating and cooling mode
- For push fitting directly onto circular ducts or as a branch off circular or rectangular ducts

### Special features

- Easy-to-remove face cover ring with bayonet fixing
- Swirl unit with acoustically optimised air control blades with unique saw tooth edges and cap for two-step reduction of the throw distance
- Discharge angle indication, discharge angle limiting and setting -30 – +30 on a concealed scale
- Electric or thermal actuator as options

### Nominal sizes

- 160, 200, 250, 315, 400 mm

### Variants

#### Connection

- Duct connection (direct connection)
- K: for rectangular ducts
- R: for circular ducts

#### Actuator

- Manual adjustment
- E\*: electric actuator
- T1: thermal actuator

#### Parts and characteristics

- Nozzle with acoustically optimised contours and adjustable discharge angle from -30 - +30°, in increments of 5°
- Flange with position indicator (scale) and adjustable end positions, concealed by a face cover ring
- Spherical nozzle casing with spigot
- Outer casing (optional)
- Connection piece for circular and rectangular ducts (optional)
- Actuator (optional)

#### Attachments

- C: outer casing

#### Accessories

- Swirl unit and cap for throw distance reduction

#### Construction features

- Spigot suitable for circular ducts to EN 1506 or EN 13180
- Spigot with double lip seal

#### Materials and surfaces

- Flange frame, face cover ring, nozzle, swirl unit and cap made of ABS plastic, UL94, V-0, flame retardant
- Spherical nozzle casing made of galvanised sheet steel
- Connection pieces for circular and rectangular ducts made of galvanised sheet steel
- Double lip seal made of rubber
- Exposed surface is pure white, similar to RAL 9010
- S1: white aluminium, similar to RAL 9006

#### Standards and guidelines

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

#### Maintenance

- Low-maintenance, as construction and materials are not subject to wear
- Inspection and cleaning to VDI 6022