



# TROX VD Swirl Diffuser Instructions

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## TROX VD Swirl Diffuser



## Product Information

- **Specifications**

- **Product Name:** VD Adjustable Swirl Diffuser
- **Installation Heights:** 3.80m
- **Application:** Very large and high rooms or halls (e.g. department stores, airports, railway stations)
- **Function:** Heating and cooling
- **Additional Features:** Protective grid for gymnasiums, flush or suspended installation, top or side entry air connection
- **Technology:** Square
- **Product Description**
  - TROX swirl diffuser type VD are designed for use in industrial and commercial sectors.
  - They are suitable for both large heights, such as factory buildings, airports, theatres, and banking halls, as well as lower rooms with a minimum height of 3.80m, such as assembly halls.
  - The diffuser blades are adjustable, allowing for horizontal discharge direction for cooling mode and vertical discharge direction for heating mode.
  - Continuous adjustment can be achieved using variable-speed motors, which are available in pneumatic or electric versions.
  - The diffusers are connected to the air duct system through a plenum box, which can be configured vertically or horizontally.

## Product Usage Instructions

- **Installation**
  - Determine the appropriate installation height of 3.80m for the VD swirl diffuser.
  - Choose the desired installation method: flush or suspended.
  - Ensure the availability of a suitable air connection either from the top or the side.
  - Follow the installation instructions provided in the user manual for proper mounting and connection to the air duct system.
- **Adjustment**
  - To adjust the discharge direction for cooling mode, locate the adjustable blades on the diffuser.
  - Using appropriate tools, rotate the blades horizontally to achieve the desired discharge direction.
  - For heating mode, adjust the blades to the vertical position.
  - If continuous adjustment is required, install a variable-speed motor according to the motor's instructions.
- **FAQ**
  - **Q:** What are the suitable applications for the VD swirl diffuser?
  - **A:** The VD swirl diffuser is suitable for very large and high rooms or halls, such as department stores, airports, railway stations, and gymnasiums.
  - **Q:** Can the VD swirl diffuser be used for both heating and cooling?
  - **A:** Yes, the VD swirl diffuser is designed for both heating and cooling applications. The adjustable blades allow for different discharge directions depending on the mode selected
  - **Q:** How can I connect the VD swirl diffuser to the air duct system?
  - **A:** The VD swirl diffuser is connected to the air duct system through a plenum box. The plenum box can be configured either vertically or horizontally.
  - **Q:** Can I adjust the discharge direction of the VD swirl diffuser?
  - **A:** Yes, the blades of the VD swirl diffuser are adjustable. They can be rotated horizontally for cooling

mode and vertically for heating mode. Continuous adjustment can be achieved using variable-speed motors.

## Product Overview



## ADJUSTABLE, FOR INSTALLATION

### VD ADJUSTABLE, FOR INSTALLATION HEIGHTS $\geq 3.80\text{M}$

- Swirl diffuser for very large and high rooms or halls
- For department stores, airports, railway stations, etc.
- For heating and cooling
- With protective grid also suitable for gymnasiums
- Installation can be flush or suspended
- Top or side entry air connection

## PRODUCT DESCRIPTION

- TROX swirl diffuser type VD are suitable for deployment in both the industrial and commercial sectors.
- They are suitable for both large heights (e.g. factory buildings, airports, theatres, banking halls) and lower rooms down to 3.80 m (e.g. assembly halls).
- The blades are adjustable, enabling a horizontal discharge direction for cooling mode and a vertical discharge

direction for heating mode.


- Continuous adjustment can be provided by means of appropriate variable-speed motors. Motors can be deployed in pneumatic or electric versions.
- The diffusers are connected to the air duct system via the plenum box, in either vertical or horizontal configuration.

## Technology

### Square

- **100** – 2,200 l/s
  - **350** – 8,000 m<sup>3</sup>/h
  - **206** – 4,706 cfm
  - **425** – 1,050 mm
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## Documents / Resources

	<p><a href="#">TROX VD Swirl Diffuser</a> [pdf] Instructions VD, VD Swirl Diffuser, Swirl Diffuser, Diffuser</p>
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## References

- [X VD | ТРОКС Австрия ООД Представителство в България](#)
- [X Изделия | ТРОКС Австрия ООД Представителство в България](#)
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- [User Manual](#)