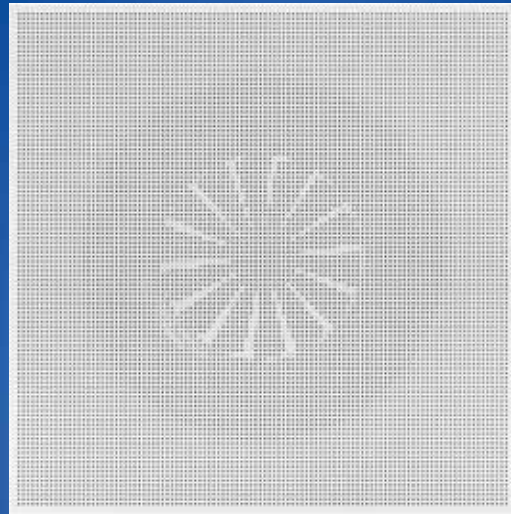


## ▶ Air terminal devices ▶▶



**Simple.  
Discreet.  
Effective.**

**TID TROX Invisible Diffuser**

**TROX<sup>®</sup> TECHNIK**  
The art of handling air

## ▶ Discreet technology ▶▶

### Aesthetic ceiling appearance

TROX Invisible Diffuser (TID) is the name of the product, as it ensures a perfect, virtually invisible indoor climate.

All the technical parts – such as the swirl element, which ensures uniform air distribution – are concealed by a finely perforated ceiling tile.

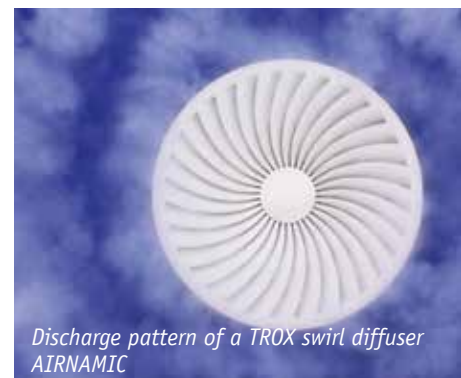
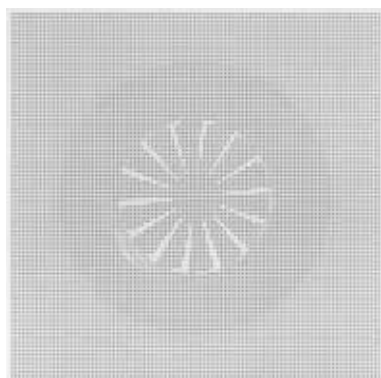
The TID complements many finely perforated ceiling tiles currently available from a range of manufacturers. The retention of the swirl function is ensured by the special nozzle shape.

Thanks to the discreet technology, a fully homogenous ceiling design can be realised – simple elegance.



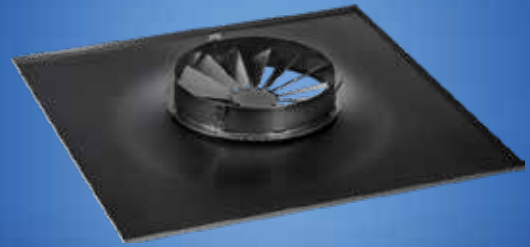
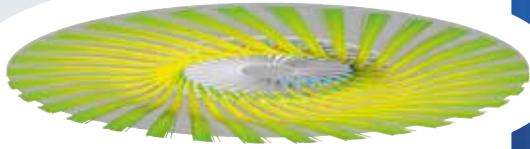
### TROX – quality from a single source

The TROX Invisible Diffuser is available ex-works including the plenum box. If the ceiling tile available is not suitable for the TID, the diffuser can also be provided ex-works with a perforated plate.



## ► Tangible comfort ►►

The swirl element of the TID always ensures a pleasantly homogeneous air supply and a fast reduction in temperature differences and air velocities.



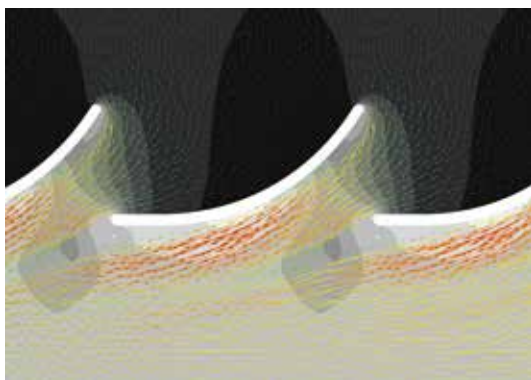
### Invisible guarantee of wellbeing

In contrast to air flow concepts with targeted airflows, the swirl-shaped airflow delivers higher induction and thus a faster reduction in temperature differences.

The diffusers enable a maximum room air change rate with optimum climate comfort.

With the TROX Invisible Diffuser, for the first time the positive characteristics of the swirl-shaped airflow can be integrated into standard grid ceilings in a manner that is discreet.

This means greater design freedom and a homogenous ceiling appearance for architects, flexible planning for engineers and simple installation for fitters.



## ► Tangible benefits ►►

### Advantages at a glance

#### Aesthetic design

- Homogenous ceiling appearance
- Technical properties and functions are independent of the ceiling design
- Uniform ceiling design with technical parts
- Compatible with a range of manufacturers' standard ceiling tiles

#### Flexible application

- Use as a swirl diffuser with high comfort requirements
- 5 different nozzle sizes available
- Flat design
- Vertical or horizontal connection
- Also available ex-works with a perforated plate

To make sure that the aerodynamic function of the diffuser is not compromised by ceiling tiles in any way, please consult with us before selecting ceiling tiles.



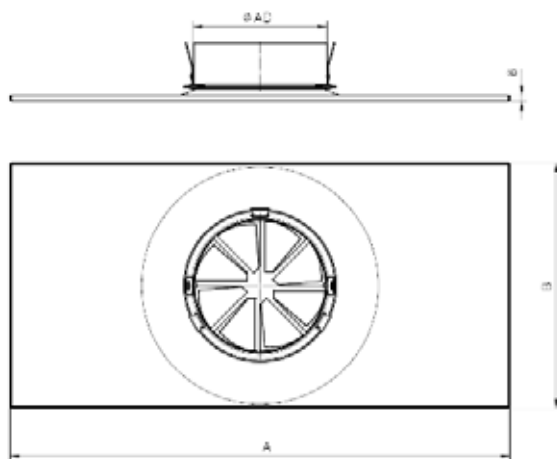
#### Technical data

►► For the dimensions, see table

Available in 5 nominal widths of 160 – 315 mm

➔ Volume flow rate: 32 – 676 m<sup>3</sup>/h

►+ Optional design with plenum box or direct vertical connection



The TID is also available in a rectangular design in various panel formats.

Nominal size (ceiling grid)	A	B	Nominal diameter (ø AD)
300 x 300 mm	290 mm	290 mm	125, 160 mm
400 x 400 mm	390 mm	390 mm	125, 160, 200 mm
600 x 600 mm	590 mm	590 mm	125, 160, 200, 250, 315 mm
625 x 625 mm	615 mm	615 mm	125, 160, 200, 250, 315 mm

## ► Never seen – but often there ►►



### Discreet, but effective

Whether in modern office buildings, banks, football stadiums or the careful restoration of listed buildings – the TROX TID is used in many different areas.

Integrated into the architecture so that it is discreet, the swirl diffuser continually and effectively ensures a comfortable indoor climate.

### References

- ISLA DE CHAMARTIN office building, Madrid: > 1000 TID diffusers
- Wanda Metropolitano Stadium, Atlético de Madrid: 48 TID diffusers
- Caixa Bank – office building, Barcelona: 110 TID diffusers
- ACCOR Hotels company headquarters, Paris: 42 TID diffusers
- Paseo Castellana office building, Spain: 79 TID diffusers
- HUAWEI research centre, Weilheim: 83 TID diffusers
- TÜV seminar centre, Filderstadt: 80 TID diffusers
- Pink GmbH application and training centre, Wertheim: 60 TID diffusers





# TROX<sup>®</sup> TECHNİK

The art of handling air

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