

*Swirl diffuser with plenum box  
for horizontal air connection*



## ► Swirl Diffuser VDW ►►

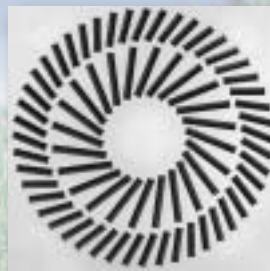
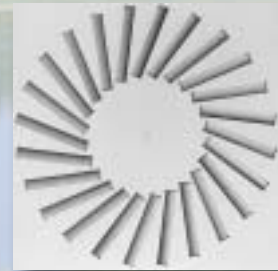
Swirl diffusers are an efficient solution for the generation of mixed air flows and the fast exchange of a large volume of air, both in small and large rooms. TROX diffusers are designed in that way that they act as design elements and, at the same time, correspond to the high ventilation and acoustic requirements.

### Advantages / special features:

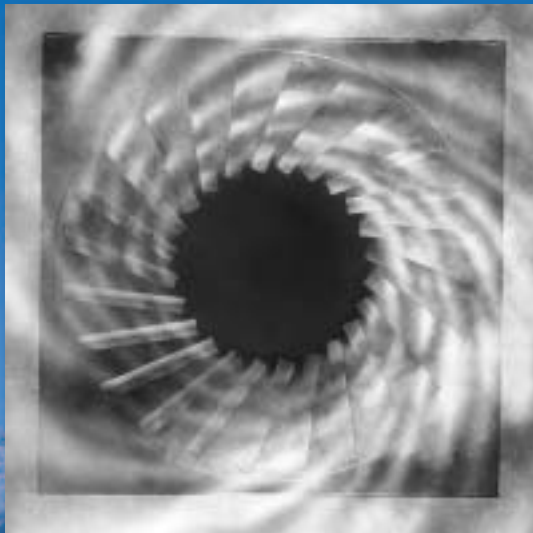
- Highly inductive
- For supply and extract air
- Thoroughly stable air flow
- Fast dissipation of air velocity and temperature differential
- Air change rates of up to 30 per hour
- Manually adjustable control blade settings
- For ceiling heights from 2.60 to 4.00 m

### Technical information:

- ■ Circular; square
- ➔ 17 – 300 l/s • 60 – 1,300 m<sup>3</sup>/h
- ◀▶ • 300 – 625 mm
- 300 – 825 mm



*Air discharge characteristics,  
control blades set for internal swirl*

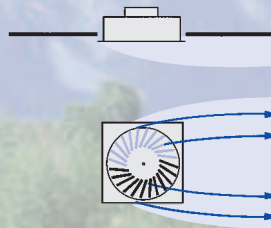
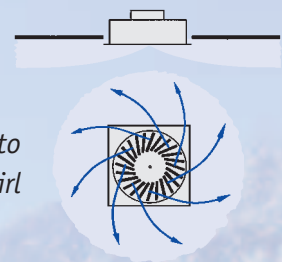


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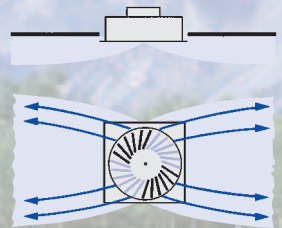
The discharge pattern of the VDW type swirl diffusers can be adjusted manually and thus permits an adaptation to any structural changes. Due to the rotary swirling motion of the air discharge, induction of room air occurs very quickly, resulting in a rapid decay of supply air velocity and temperature differential. Air change rates of 30 per hour can be achieved with supply air temperature differentials of +10K to -10K.

### Air flow directions:

*All air control blades set to  
external swirl*



*Air control blades set  
half to external and  
half to internal swirl*



*Air control blades in each  
quartile of face are set in the  
same direction, adjacent quartiles  
set one internal one external swirl*

### Installation situations:



*VDW swirl diffusers in  
KIKI store in Budaörs, Hungary*



*VDW swirl diffusers at the University Clinic of  
Hamburg-Eppendorf, Germany*