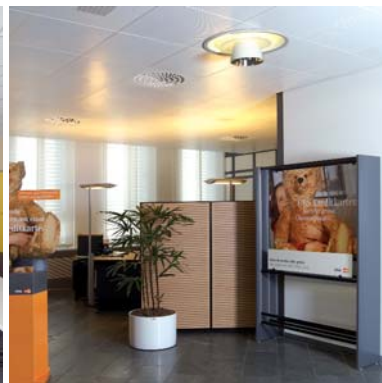
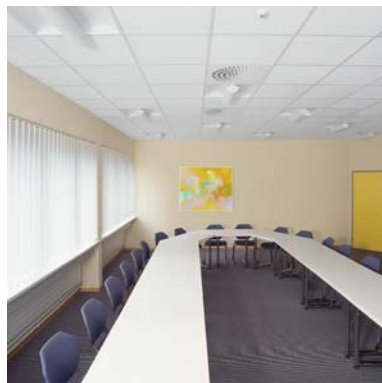
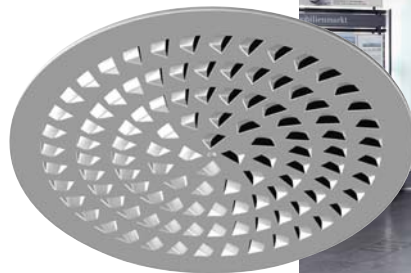
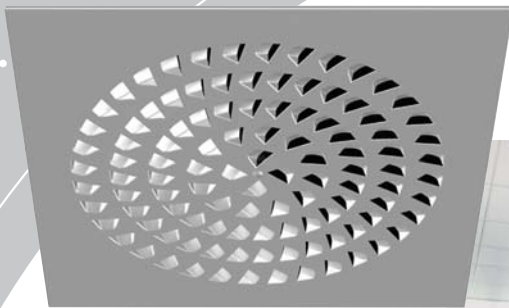


WAVEDRALL

A different kind of Air Swirl Diffuser



TROX[®] **TECHNIK**
The art of handling air



Comfort all over

Application:

The ceiling air diffuser WAVEDRALL is highly inductive and interesting to be installed in almost any room with a height of 2.4 to 4.4 m.

The WAVEDRALL can be fitted harmoniously in mineral fibre and/or metal plate ceilings. He can also be used for visual realisation, i.e. freely suspending.

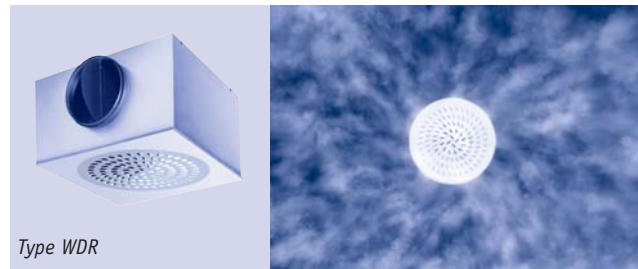
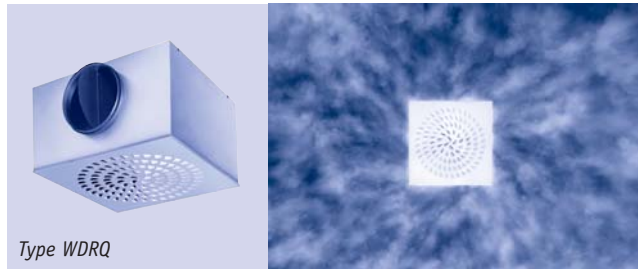
The following types are available in the dimensions Ø 300 mm, 400 mm and 500 mm:

circular/quadratic  **Type WDRQ**

circular  **Type WDR**

Supply and exhaust air 100...500 [m³/h]

circular and
circular/quadratic



Quick selection of the smallest dimension Ø 300 mm (Types WDRQ and WDR)

Dimension [mm]	A _{eff} [m²]	q̇ _v [l/s]	27.8		34.7		41.7		48.6 nominal 175		55.6		62.5	
			V̇ [m³/h]		100		125		150		200		225	
... x 300	0.0149	Δp _t [Pa]	8		13		19		26		34		43	
		L _{WA} [dB(A)]	21		27		32		36		40		43	
		L _{0.5/L_{0.3}} [m]	-	-	-	-	-	-	-	1.8	-	1.8	1.8	1.9
		v̄ _{H1} [m/s]	0.08		0.09		0.10		0.10		0.10		0.10	
Distance	A	[m]	3.5		3.6		3.5		3.8		3.5		3.8	

Quick selection of the dimension Ø 500 mm (Types WDRQ and WDR)

Dimension [mm]	A _{eff} [m²]	q̇ _v [l/s]	41.7		55.6		69.4		83.3		97.2		111.1 nominal 400		125.0		138.9	
			V̇ [m³/h]		150		200		250		300		350		400		450	
... x 500	0.0402	Δp _t [Pa]	3		6		9		12		17		23		29		36	
		L _{WA} [dB(A)]	<20		<20		23		28		33		36		40		43	
		L _{0.5/L_{0.3}} [m]	-	-	-	-	-	1.8	1.8	1.9	1.8	2.1	1.9	2.2	1.9	2.4	2.1	2.5
		v̄ _{H1} [m/s]	0.10		0.11		0.11		0.13		0.12		0.14		0.13		0.16	
Distance	A	[m]	3.6		3.5		3.8		3.6		4.1		3.7		4.4		3.9	

Legend:

q̇ _v	l/s	Volume flow rate per diffuser
V̇	m³/h	Volume flow rate per diffuser
A _{eff}	m²	effective air outlet surface area
L _{0.5/L_{0.3}}	m	Throw of the jet in relation to the end velocities 0.3 m/s resp. 0.5 m/s
Δp _t	Pa	Total pressure drop (supply air)
L _{WA}	dB(A)	A-weighted sound power level
v̄ _{H1}	m/s	Mean flow velocity between two diffusers with ceiling distance H ₁

Base for v̄_{H1}:

Room height H	= 2.9 m
Height of the occupied zone	= 1.7 m
H ₁	= 1.2 m
Distance A see table	
Distance B	= 4.0 m
Difference of temperature	= -8.0 K

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