



**WTF**

**Swirl diffusers**

## Ceiling diffuser WTF

### Swirl diffusers



**MWTF**



**RWTF**

### Introduction

The ceiling diffuser WTF is a swirl diffuser made of one piece of aluminium plate. The shape of the discharge edge and the angle of the blades create a turbulent and flat discharge pattern. The accuracy of operations, such as cutting and punching, ensure good aerodynamic properties and low noise levels. The plenum is equipped with air conduction vanes, so that a good flow on the grille is achieved with minimal pressure loss. The connections are in accordance with the Eurovent standards.

### Product description:

<b>WTF</b>	Square swirl diffuser
<b>RWTF</b>	Circular swirl diffuser
<b>MWTF</b>	Swirl diffuser in module version 600x600
<b>TKDV</b>	Plenum
<b>TKDVI</b>	Plenum internally insulated
<b>TKRV</b>	Return plenum
<b>H</b>	Connection edge
<b>T</b>	Traverse for duct mounting

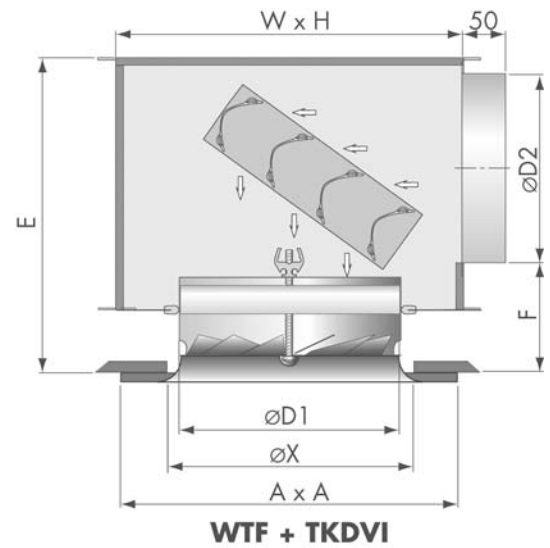
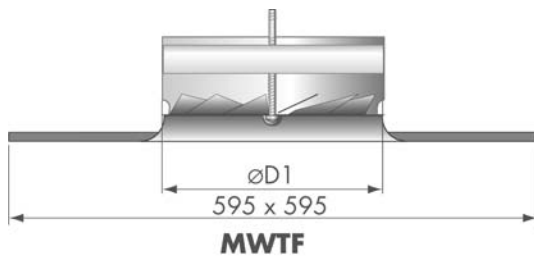
### Features

- Supply and exhaust of isothermal, cooled or heated air
- Good inducing effect
- Applicable in modular ceiling systems (MWTF)
- Good operation without ceiling
- Good aerodynamic properties
- Low noise level
- Good mixing with room air
- PU insulation Fire class B3



## Technical data

### WTF



### Finishing

Viewing area RAL 9010  
 Remaining galvanised sheet steel  
 Other colours possible on request

### Order example

**WTF-200 / RAL9010 / TKDV - 160**

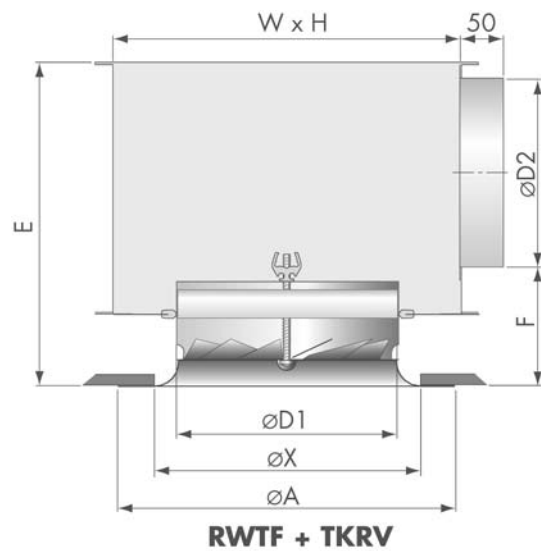
Grille type

Grid connection

Finishing

Plenum type

Plenum connection



### Sizes

See table

B x H	$\varnothing D1$	$\varnothing D2$	$E_{min}$	$E_{max}$	$\varnothing A$	$\varnothing X$	A x A	$F_{min}$	$F_{max}$
210 x 210	125	100	220	240	200	165	196 x 196	102	122
210 x 210	160	125	250	270	250	200	246 x 246	97	117
310 x 310	200	160	280	310	300	240	296 x 296	89	119
310 x 310	250	200	280	310	350	290	346 x 346	69	99
410 x 410	315	250 ovaal*	295	320	450	365	396 x 396	72	107
510 x 510	400	315 ovaal*	295	320	535	460	496 x 496	72	107

\* circumference is equal to specified diameter  
 (also round exclusions available)

## Selection example

### Swirl diffuser WTF

#### Selection example WTF-200

qv (air volume) 200 m<sup>3</sup>/h or 56 l/s

T (throw) 2.1 m

Ps (pressure loss) 33Pa

Lp (sound pressure level) NR 30



#### Selection table

WTF		supply						return						
m <sup>3</sup> /h	l/s		125	160	200	250	315	400	125	160	200	250	315	400
50	14	T	0,8											
		Ps	32						32					
		Lp	24						24					
75	21	T	1,3	1,1	0,6									
		Ps	54	12	3				54	12	3			
		Lp	30	21	-				30	21	-			
100	28	T		1,3	1,1									
		Ps		20	10					20	10			
		Lp		24	-					24	-			
125	35	T		1,5	1,4									
		Ps		30	15					30	15			
		Lp		28	20					28	20			
150	42	T		1,7	1,6	1,5								
		Ps		41	20	6				41	20	6		
		Lp		32	25	-				32	25	-		
200	56	T			2,1	2,0	1,7							
		Ps			33	11	6				33	11	6	
		Lp			30	-	-				30	-	-	
300	83	T				2,6	2,2							
		Ps				25	14					25	14	
		Lp				27	21					27	21	
400	111	T				3,3	2,7	2,2						
		Ps				45	25	5				45	25	5
		Lp				35	26	-				35	26	-
500	139	T					3,2	2,7						
		Ps					39	8					39	8
		Lp					32	-					32	-
700	194	T						3,7						
		Ps						15						16
		Lp						23						26
900	250	T						4,7						
		Ps						25						27
		Lp						30						33
1100	306	T						5,7						
		Ps						37						40
		Lp						36						39



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