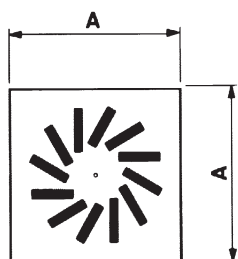
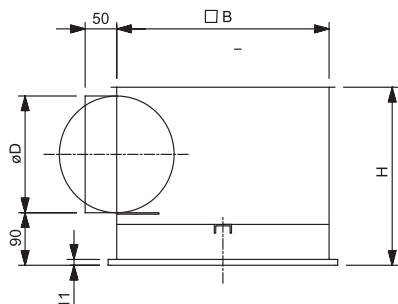


SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

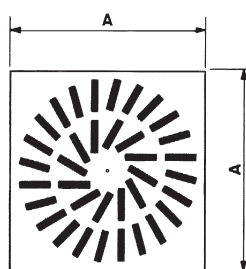
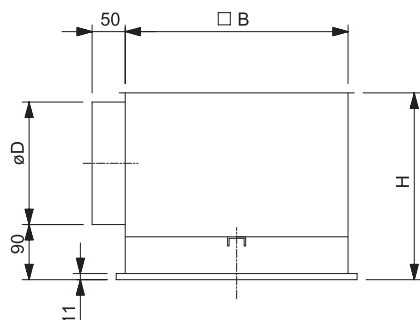
TYPE: WT100S

Installation dimensions

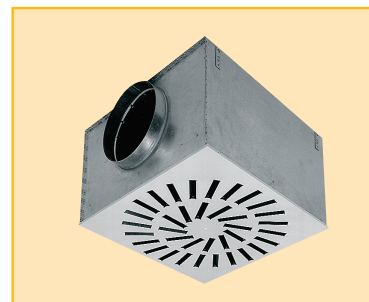
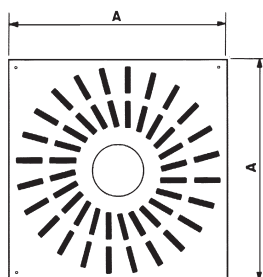
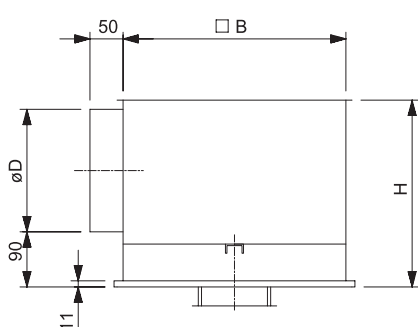
Size 125 & 200 mm



Size 250 mm



Size 315 mm



Application

The swirl diffuser type WT100S is used for the supply of cooled or heated air in facilities such as offices, shopping centres, schools, ...

Diffusers for ceiling or exposed duct mounting.

The diffuser is equipped with adjustable deflectors creating the possibility to obtain an external or internal swirl.

A high induction is obtained by the exceptional swirl discharge, which makes them extremely suitable for VAV terminal boxes.

Technical information

Characteristics:

- adjustable horizontal and vertical air pattern
- 2,5 < mounting height < 4 m

• size 125 & 200 mm:

Single row of deflectors

• size 250 mm:

Because of the unique position of the 2 rows of outlet deflectors, an unlimited number of possibilities can be obtained.

For example a vertical air discharge through the inner deflectors in combination with an external swirl through the outer deflectors, ...

• size 315 mm:

An adjustable deflector sheet is mounted in the centre allowing you to handle 25 % more air volume compared to size 250 mm, without any increase in noise

- available in various plate sizes
- available with white & black blades
- stainless steel

Size	A	dia	No BLADES	B	H
125	294	125	9	270	230
160	394	160	12	355	265
200	394	200	20	355	305
200	494	200	24	355	305
250	594	250	36	555	355
250	594	250	48	555	355
315	594	315	48	555	420

All sizes available in 594 x 594 format

SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

TYPE: WT100S

Construction:

- steel; painted white (RAL 9010)
- deflectors in black or white pvc
- insulated or non insulated plenum; galvanised sheet steel

Specifications description

Example:

Square steel diffuser with adjustable air pattern, complete with a plenum box with side entry and damper. The diffuser is painted white (RAL 9010)

Type: WT101S
size ... / ... mm

Fixing

- with 4 mounting straps (diffuser fixed to the plenum with central screw)
- modular ceiling mounting

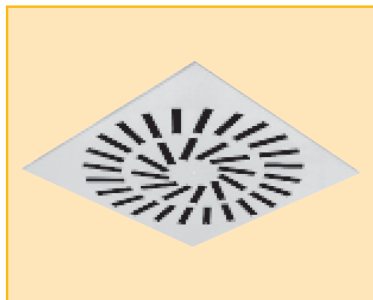
Options

- **WT100S/WT120S** : swirl diffuser with plenum and side entry
- **WT101S/WT121S** : with damper in side entry
- **WT100P/WT120P** : swirl diffuser integrated in a false ceiling plate
- **WA100S** : as exhaust diffuser without deflectors
- **WA101S** : as exhaust diffuser without deflectors and with in side entry damper
- **WA100P** : WT100P as exhaust diffuser without deflectors

SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

TYPE: WT100T

Installation dimensions



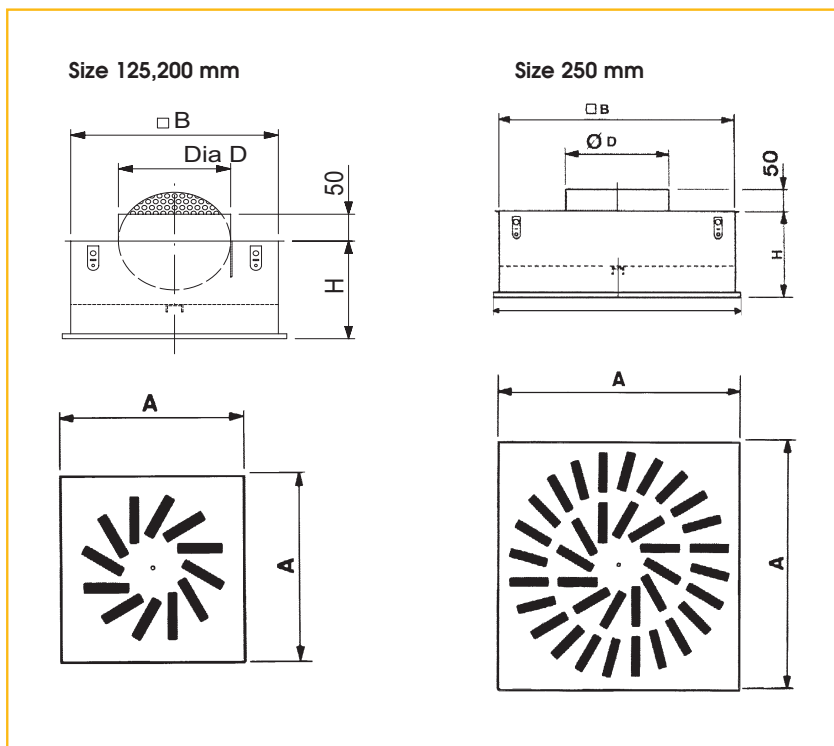
Application

The diffuser type WT100T is used for the supply of cooled or heated air in facilities such as offices, shopping centres, schools, ...

Diffusers for ceiling or exposed duct mounting.

The diffuser is equipped with adjustable deflectors creating the possibility to obtain an external or internal swirl.

A high induction is obtained by the exceptional swirl discharge, which makes them extremely suitable for VAV terminal boxes.



Technical information

Characteristics :

- adjustable horizontal and vertical air pattern
- 2.5 < mounting height < 4 m

- **size 125, 200 mm:**
Single row of deflectors

- **size 250 mm:**
Through the unique position of the 2 rows of outlet deflectors, an unlimited number of arrangements can be obtained. For example a vertical air discharge through the inner deflectors in combination with an external swirl through the outer deflectors.

- **size 315 mm:**
An adjustable deflector plate is mounted in the central part allowing you to handle 25% more air volume compared to size 250 mm, without any increase in noise.

- available in various plate sizes
- available with white & black blades
- stainless steel

Size	A	dia	No BLADES	B	H
125	294	125	9	270	155
160	394	160	12	355	205
200	394	200	20	355	205
200	494	200	24	355	205
250	594	250	36	555	205
250	594	250	48	555	205
315	594	315	48	555	255

All sizes available in 594 x 594 format

SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

TYPE: WT100T

Construction:

- steel; painted white (RAL 9010)
- deflectors in black or white pvc
- insulated or non insulated plenum; galvanised sheet steel

Specifications description

Example:

Square steel diffuser with adjustable air pattern, complete with a plenum box with top entry and damper. The diffuser is painted white (RAL 9010)

Type: WT101T
size ... / ... mm

Fixing

- with 4 mounting straps (diffuser fixed to the plenum with central screw)
- modular ceiling mounting

Options

- **WT100T/WT120T** : swirl diffuser with plenum and top entry
- **WT101T/WT121T** : with damper in top entry
- **WA 100T** : as exhaust diffuser without deflectors
- **WA 101T** : as exhaust diffuser without deflectors and with damper in top entry

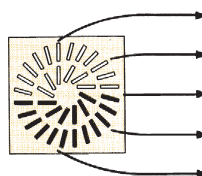
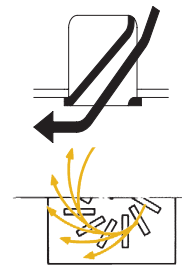
Installation possibilities

External swirl

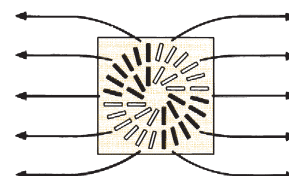


Example of deflectors set for external swirl

Internal swirl



Examples of deflectors set for one or two discharge pattern



SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

TYPE: WT100 • WT500 - 9 Blade Selection / 12 Blade Selection

CODE	DESCRIPTION	NOMINAL LENGTH x HEIGHT		SPIGOT DIA	LITRES PER SEC L/S	VELOCITY M/S	THROW METERS	P.A.	NR
WT100	ADJ / BLADE	9	294		20	2.02	0.3	4.9	15.0
				125		1.6			
WT100	ADJ / BLADE	9	294		25	2.53	0.3	7.7	15.0
				125		2.0			
WT100	ADJ / BLADE	9	294		30	3.03	0.4	11.0	20.0
				125		2.4			
WT100	ADJ / BLADE	9	294		35	3.54	0.5	15.0	21.0
				125		2.9			
WT100	ADJ / BLADE	9	294		40	4.04	0.5	19.6	24.0
				125		3.3			
WT100	ADJ / BLADE	9	294		45	4.55	0.6	24.8	26.0
				125		3.7			
WT100	ADJ / BLADE	9	294		50	5.05	0.7	30.6	28.0
				125		4.1			
WT100	ADJ / BLADE	9	294		55	5.56	0.7	37.0	35.0
				125		4.5			

CODE	DESCRIPTION	NOMINAL LENGTH x HEIGHT		SPIGOT DIA	LITRES PER SEC L/S	VELOCITY M/S	THROW METERS	P.A.	NR
WT100	ADJ / BLADE	12	394		30	2.27	0.4	6.2	15.0
				160		1.5			
WT100	ADJ / BLADE	12	394		35	2.65	0.4	8.4	15.0
				160		1.7			
WT100	ADJ / BLADE	12	394		40	3.03	0.5	11.0	20.0
				160		2.0			
WT100	ADJ / BLADE	12	394		45	3.41	0.5	13.9	22.0
				160		2.2			
WT100	ADJ / BLADE	12	394		50	3.79	0.6	17.2	24.0
				160		2.5			
WT100	ADJ / BLADE	12	394		55	4.17	0.6	20.8	25.0
				160		2.7			
WT100	ADJ / BLADE	12	394		60	4.55	0.7	24.8	28.0
				160		3.0			
WT100	ADJ / BLADE	12	394		75	5.68	0.9	38.7	35.0
				160		3.7			

SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

TYPE: WT100 • WT500 - 18 Blade Selection / 20 Blade Selection

CODE	DESCRIPTION	NOMINAL LENGTH x HEIGHT		SPIGOT DIA	LITRES PER SEC L/S	VELOCITY M/S	THROW METERS	P.A.	NR
WT100	ADJ / BLADE	18	494		50	2.53	0.5	7.7	15.0
				200		1.6			
WT100	ADJ / BLADE	18	494		60	3.03	0.6	11.0	20.0
				200		1.9			
WT100	ADJ / BLADE	18	494		70	3.54	0.7	15.0	24.0
				200		2.2			
WT100	ADJ / BLADE	18	494		80	4.04	0.8	19.6	26.0
				200		2.5			
WT100	ADJ / BLADE	18	494		90	4.55	0.9	24.8	28.0
				200		2.9			
WT100	ADJ / BLADE	18	494		100	5.05	1.0	30.6	32.0
				200		3.2			
WT100	ADJ / BLADE	18	494		110	5.56	1.1	37.0	33.0
				200		3.5			
WT100	ADJ / BLADE	18	494		120	6.06	1.2	44.1	35.0
				200		3.8			

CODE	DESCRIPTION	NOMINAL LENGTH x HEIGHT		SPIGOT DIA	LITRES PER SEC L/S	VELOCITY M/S	THROW METERS	P.A.	NR
WT100	ADJ / BLADE	20	494		55	2.50	0.5	7.5	15.0
				200		1.8			
WT100	ADJ / BLADE	20	494		65	2.95	0.6	10.5	22.0
				200		2.1			
WT100	ADJ / BLADE	20	494		80	3.64	0.7	15.9	25.0
				200		2.5			
WT100	ADJ / BLADE	20	494		90	4.09	0.8	20.1	27.5
				200		2.9			
WT100	ADJ / BLADE	20	494		100	4.55	0.9	24.8	30.0
				200		3.2			
WT100	ADJ / BLADE	20	494		110	5.00	1.0	30.0	32.0
				250		2.2			
WT100	ADJ / BLADE	20	494		115	5.23	1.0	32.8	33.0
				250		2.3			
WT100	ADJ / BLADE	20	494		125	5.68	1.1	38.7	35.0
				250		2.5			

SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

TYPE: WT100 • WT500 - 24 Blade Selection / 36 Blade Selection

CODE	DESCRIPTION	NOMINAL LENGTH x HEIGHT		SPIGOT DIA	LITRES PER SEC L/S	VELOCITY M/S	THROW METERS	P.A.	NR
WT100	ADJ / BLADE	24	594		65	2.46	0.5	7.3	15.0
				200		2.1			
WT100	ADJ / BLADE	24	594		75	2.84	0.6	9.7	18.0
				200		2.4			
WT100	ADJ / BLADE	24	594		85	3.22	0.7	12.4	20.0
				200		2.7			
WT100	ADJ / BLADE	24	594		95	3.60	0.8	15.5	24.0
				200		3.0			
WT100	ADJ / BLADE	24	594		110	4.17	0.9	20.8	27.0
				250		2.2			
WT100	ADJ / BLADE	24	594		120	4.55	1.0	24.8	28.0
				250		2.4			
WT100	ADJ / BLADE	24	594		130	4.92	1.1	29.1	30.0
				250		2.6			
WT100	ADJ / BLADE	24	594		140	5.30	1.2	33.7	33.0
				250		2.9			

CODE	DESCRIPTION	NOMINAL LENGTH x HEIGHT		SPIGOT DIA	LITRES PER SEC L/S	VELOCITY M/S	THROW METERS	P.A.	NR
WT100	ADJ / BLADE	36	594		80	2.02	0.5	4.9	15.0
				200		2.5			
WT100	ADJ / BLADE	36	594		100	2.53	0.7	7.7	22.0
				200		3.2			
WT100	ADJ / BLADE	36	594		130	3.28	0.9	12.9	26.0
				250		2.6			
WT100	ADJ / BLADE	36	594		150	3.79	1.0	17.2	28.0
				250		3.1			
WT100	ADJ / BLADE	36	594		170	4.29	1.2	22.1	30.0
				250		3.5			
WT100	ADJ / BLADE	36	594		180	4.55	1.2	24.8	32.5
				250		3.7			
WT100	ADJ / BLADE	36	594		190	4.80	1.3	27.6	34.0
				250		3.9			
WT100	ADJ / BLADE	36	594		225	5.68	1.5	38.7	37.5
				250		4.6			

SWIRL DIFFUSER WITH ADJUSTABLE AIR PATTERN

TYPE: WT100 • WT500 - 48 Blade Selection

CODE	DESCRIPTION	NOMINAL LENGTH x HEIGHT		SPIGOT DIA	LITRES PER SEC L/S	VELOCITY M/S	THROW METERS	P.A.	NR
WT100	ADJ / BLADE	48	594		110	2.08	0.6	5.2	20.0
				250		2.2			
WT100	ADJ / BLADE	48	594		120	2.27	0.7	6.2	21.0
				250		2.4			
WT100	ADJ / BLADE	48	594		140	2.65	0.8	8.4	24.0
				250		2.9			
WT100	ADJ / BLADE	48	594		160	3.03	0.9	11.0	26.0
				250		3.3			
WT100	ADJ / BLADE	48	594		175	3.31	1.0	13.2	27.5
				250		3.6			
WT100	ADJ / BLADE	48	594		200	3.79	1.2	17.2	30.0
				315		2.6			
WT100	ADJ / BLADE	48	594		225	4.26	1.3	21.8	32.0
				315		2.9			
WT100	ADJ / BLADE	48	594		250	4.73	1.5	26.9	35.0
				315		3.2			
WT100	ADJ / BLADE	48	594		280	5.30	1.6	33.7	36.0
				315		3.6			
WT100	ADJ / BLADE	48	594		300	5.68	1.8	38.7	38.0
				315		3.8			