

WT

Square diffusers with adjustable throws

Product	WT
Construction material	Steel
Finishing	RAL 9010

WT ceiling diffusers are suitable for civil and industrial conditioning systems to assure many air changes per hour.

The unit is fitted with adjustable deflectors, with radial set-up, which allow for two different types of air flows: swirl flow along the outer or inner perimeter or vertical flow.

The strong swirl air movement produces high induction rates with short flows, assuring a low temperature gradient in the occupied area.

The operation is fully ensured even with variable air flow systems, from 50% to 100% of the value of the project.

The diffuser is fitted with a plenum with side or upper connection, with perforated equalizing sheet and damper adjustable from the room.

The front plate of the diffuser is in steel sheet with white coating (RAL 9010), with adjustable aluminium, in nylon; it is fitted with a central screw covered with a white cap. the plenum is made of galvanized steel sheet and has four bottomholes.

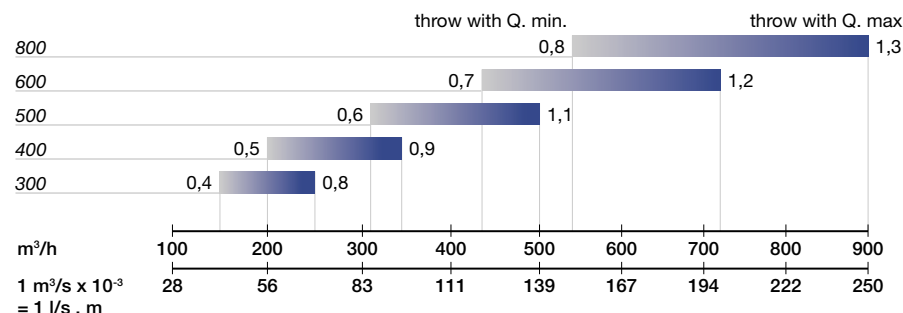
Available also in the version internally insulated with polyethylene thickness 6 mm. cl 1

Applications WT diffusers are used in conditioning systems for tertiary and industrial buildings, with heavy thermal loads and/or big crowds which require a considerable number of air changes.

Installation WT diffusers are assembled by using the four bottomholes of the plenum and the threaded bars anchored to the structural ceiling.

Connection with the ducts is normally made with flexible ducts inserted in the plenum connections.

Quick selection



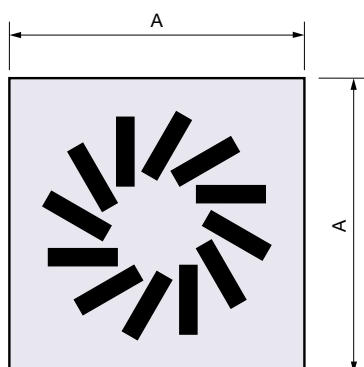
The air flow rates and the pressure drop rates are certified according to the UNI 8728 and prEN 12238 standards, by an independent and certified body, in compliance with the legislation in force on energy saving standards.

	Q min.	Q max
NR	< 25	< 35
Pressure drop Pa	10	< 30

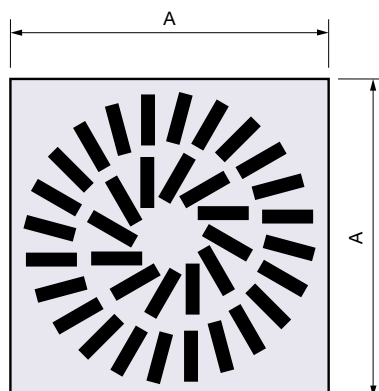
Size

Size	Sizes (mm)	
	□ A	Plenum
300 / 3	294	300
400 / 4	394	400
300 / 6	594	300
400 / 6	594	400
500 / 6	594	600
600 / 6	594	600
800 / 8	819	800

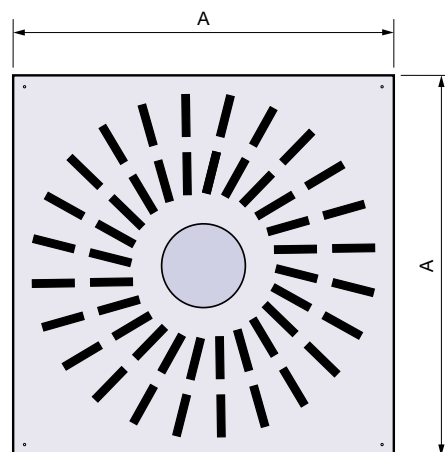
WT mod. 300 / 3 - 300 / 6
400 / 4 - 400 / 6
500 / 6



WT mod. 600 / 6



WT mod. 800 / 8

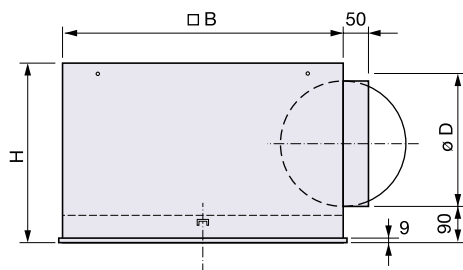


Accessories

WT square diffusers with adjustable throws

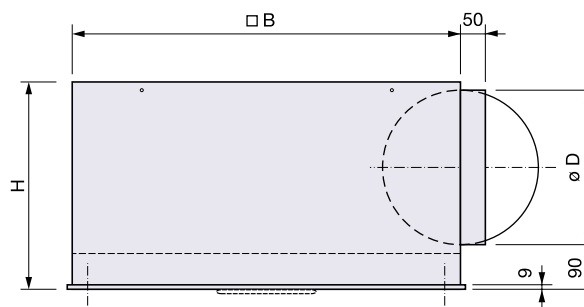
WT 101 S Plenum box

Side connection



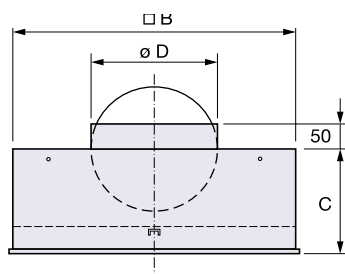
WT 101 S 800/8 Plenum box

Side connection



WT 101 T Plenum box

Top connection



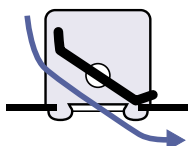
Nominal
size
(mm)

Sizes (mm)

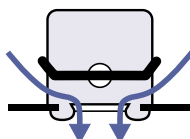
	□ B	C	H	ø D
300	265	150	230	123
400	355	200	305	198
500	555	200	355	248
600	555	200	355	248
800	790	---	420	313

Adjustment possibilities

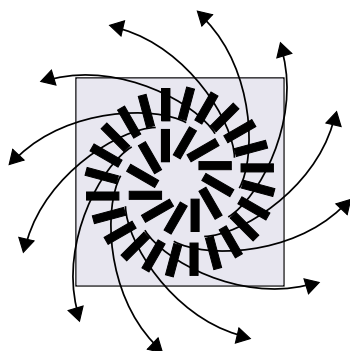
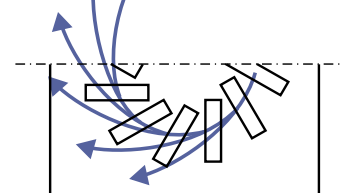
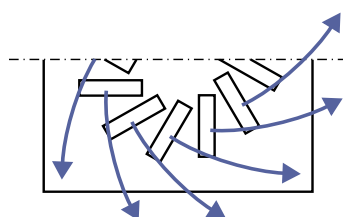
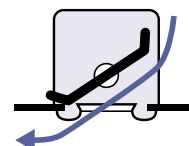
Outward flow



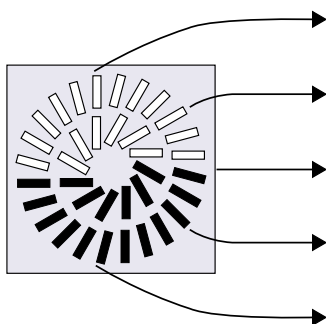
Vertical flow



Inward flow



Example of deflector layout
for outward swirl flow



Example of deflector layout for one or two way flow

