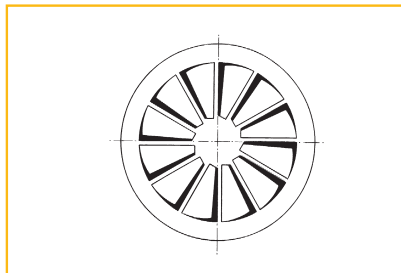
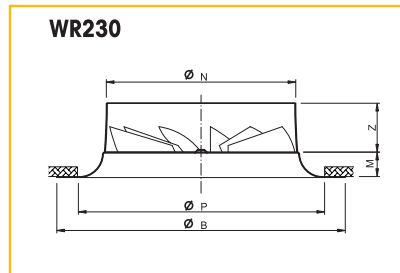
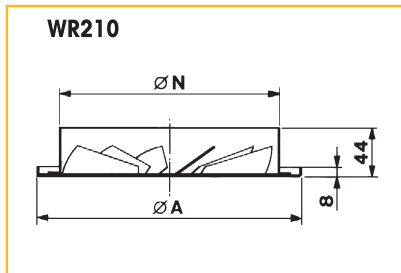


CIRCULAR SWIRL DIFFUSER

TYPE: WR200 • WR210 • WR230

Installation dimensions



Application

The swirl diffuser type WR200 is used for the supply of cooled and heated air in facilities such as offices, shopping centres, schools, ...
Diffuser for ceiling or exposed duct mounting. The diffuser is equipped with fixed vanes in a round frontsheet. A high induction is obtained by the exceptional swirl discharge, which makes them very suitable for VAV application from 100% down to 25%. A downwards inclined swirl is obtained in the flat version WR200, when fitted with the diffusion collar WR220 a horizontal swirl is obtained.

Technical information

Characteristics:

- available with the dimensions 100, 125, 160, 200, 250, 315, 400 and 500 mm
- $2.4 < \text{installation height} < 4 \text{ m}$
- diffuser with central screw fixing that can be dismantled from plenum or transition piece.
- diffuser without central screw fixed to plenum or transition piece.

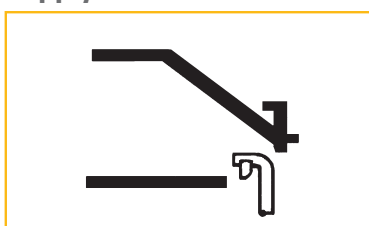
Construction:

- diffuser; steel, painted white (RAL 9010)
- optional insulated plenum; galvanised steel sheet
- provided with mounting eyes ($\varnothing 7 \text{ mm}$), mounting straps available upon request

Size	ØN	ØA	ØB	M	ØP	Z
100	98	138	160	15	135	50
125	123	178	200	25	180	50
160	158	195	250	25	215	50
200	198	248	300	25	255	50
250	248	296	350	25	305	50
315	313	363	450	35	395	50
400	398	600	570	60	535	65
500	498	700	700	70	620	50

Δ P = minimal ceiling opening. All dimensions in mm.

Air flow rate measurement - supply



Velometer jet 2220 A or 6070

A _k - and A _n -values (m ²)						
Size	100	125	160	200	250	315
A _k	0,0044	0,0066	0,0110	0,0171	0,0270	0,0429
A _n	0,0079	0,0123	0,0201	0,0314	0,0491	0,0779

CIRCULAR SWIRL DIFFUSER

TYPE: WR200 • WR210 • WR230

Specifications description

Example:

Circular steel swirl diffuser with fixed vanes in a round frontsheet and diffusion collar. Complete with side entry plenum and damper.

The diffuser is painted white (RAL 9010)

Type: WR231S
size ... mm

Accessories

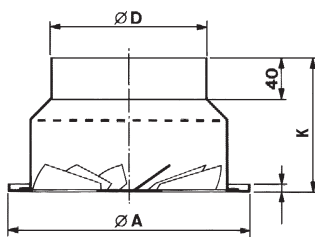
GR003: mounting support for central screw fixing (only for WR210 and WR230)

Options

- **WR200:** Flat swirl diffuser
- **WR200S:** Flat swirl diffuser and plenum with side entry
- **WR200T:** Flat swirl diffuser with transition piece, top entry
- **WR210:** Flat swirl diffuser with central screw fixing
- **WR210T:** Flat swirl diffuser with central screw fixing and transition piece, top entry
- **WR210S:** Flat swirl diffuser with central screw fixing and plenum with side entry
- **WR211S:** Flat swirl diffuser with central screw fixing, plenum with side entry and damper
- **WR220:** Swirl diffuser with diffusion collar
- **WR220S:** Swirl diffuser with diffusion collar and plenum with side entry
- **WR220T:** Swirl diffuser with diffusion collar and transition piece, top entry
- **WR230:** Swirl diffuser with diffusion collar and central screw fixing
- **WR230T:** Swirl diffuser with diffusion collar, with central screw fixing and transition piece, top entry
- **WR230S:** Swirl diffuser with diffusion collar, central screw fixing and plenum with side entry
- **WR231S:** Swirl diffuser with diffusion collar, central screw fixing and damper in inlet spigot

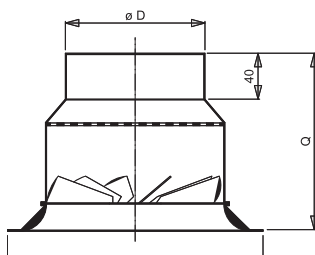
Installation dimensions

WR210T

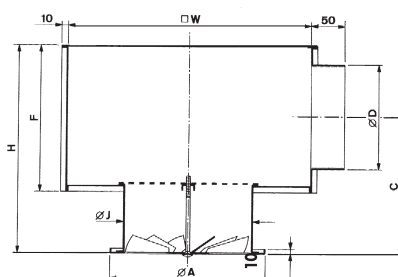


Size	C	Ø D	E	F	G	H	Ø J	□ W	K	Q
100	172	78	195	140	250	235	102	200	120	135
125	192	98	217	160	280	255	127	275	126	155
160	205	123	230	185	305	280	162	325	131	160
200	223	158	248	220	340	315	202	375	131	165
250	243	198	268	260	380	355	252	450	136	165
315	264	248	299	310	440	405	317	500	144	185
400	291	313	351	375	530	470	402	600	177	240
500	344	398	404	460	615	555	502	800	-	-

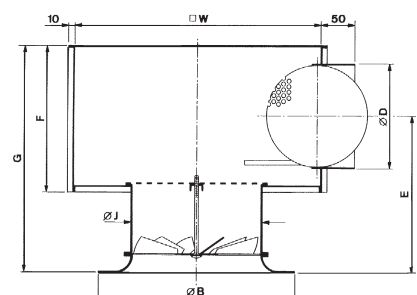
WR230T



WR210S



WR231S



SQUARE/ROUND SWIRL DIFFUSER

TYPE: WR200 SELECTION DATA

SIZE DIA	VOLUME L/S	THROW	PA	OUTLET VEL M/S	NR
125	16	0.33	9	3.5	20
125	22	0.45	18	4.8	25
125	28	0.58	29	6.1	30
125	35	0.72	45	7.6	35
125	40	0.83	59	8.7	40
125	45	0.93	75	9.8	45

SIZE DIA	VOLUME L/S	THROW	PA	OUTLET VEL M/S	NR
160	25	0.4	7	3.2	20
160	32	0.5	11	4.1	25
160	40	0.6	17	5.1	30
160	50	0.8	26	6.4	35
160	65	1.0	45	8.3	40
160	75	1.2	59	9.6	45

SIZE DIA	VOLUME L/S	THROW	PA	OUTLET VEL M/S	NR
200	35	0.4	10	2.8	20
200	50	0.6	21	4.0	25
200	60	0.7	30	4.8	30
200	70	0.9	40	5.6	35
200	90	1.1	67	7.2	40
200	110	1.4	100	8.8	45

SIZE DIA	VOLUME L/S	THROW	PA	OUTLET VEL M/S	NR
250	50	0.5	8	2.5	20
250	60	0.9	12	3.0	25
250	75	1.1	19	3.8	30
250	95	1.4	30	4.8	35
250	120	1.7	48	6.1	40
250	145	2.1	70	7.3	45

SQUARE SWIRL DIFFUSER

TYPE: WR200 SELECTION DATA

SIZE DIA	VOLUME L/S	THROW	PA	OUTLET VEL M/S	NR
315	65	0.7	6	2.1	20
315	80	0.9	9	2.6	25
315	100	1.1	14	3.3	30
315	130	1.5	23	4.2	35
315	160	1.8	35	5.2	40
315	200	2.3	55	6.5	45

SIZE DIA	VOLUME L/S	THROW	PA	OUTLET VEL M/S	NR
400	90	0.8	4	1.8	20
400	110	1.0	6	2.2	25
400	140	1.2	10	2.8	30
400	170	1.5	15	3.4	35
400	225	2.0	26	4.4	40
400	300	2.7	46	5.9	45

SIZE DIA	VOLUME L/S	THROW	PA	OUTLET VEL M/S	NR
500	110	1.0	2	1.5	20
500	150	1.3	4	2.1	25
500	175	1.6	6	2.5	30
500	225	2.0	10	3.2	35
500	275	2.5	15	3.9	40
500	375	3.4	28	5.3	45