

- Swirl diffusers
- Circular
- Steel
- White, RAL 9010



Circular swirl diffusers type RWR-N

Round swirl ceiling diffusers with fixed blades

Application

- For air supply and exhaust in ventilation and air conditioning systems.

Material

- Steel

Colour

- White, RAL 9010

Composition

- Fixed blades

Mounting

- Fixing with central screw into the crossbar of the plenum box

Accessories

- butterfly volume control damper type **DR**
- Plenum box types **RER-L**
- Plenum box types **RER-L ISO**
- Mounting crossbar for direct duct mounting type **FGN**
- Mounting crossbar for direct ceiling mounting type **FHN**

Text for tender

- The air supply diffusers are of the swirl type with fixed blades. They are made of steel with white powder coating RAL 9010 and supplied with a volume control damper in the plenum box.
- Type ATC **RWR-N+RER-L**

Order example

- RWR-N, 315 + RER-L**

Explanation

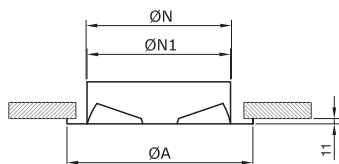
RWR-N = Diffuser type



315 = Diffuser size (Ø diffuser neck connection)

Accessories

RER-L = Plenum box



Dimensions

RWR-N	ØA [mm]	ØN1 [mm]	ØN [mm]
125	173	123	125
160	208	158	160
200	272	198	200
250	328	248	250
315	403	313	315
355	501	353	355
400	501	398	400
500	594	498	500

Quick selection

Qv	Ø	125	160	200	250	315	355	400	500
60	Aeff	0.099	0.0123	0.0176	0.0226	0.033	0.0359	0.0500	0.0618
	Lth	0.60	0.50						
	Ps	16	7						
	veff	1.70	1.40						
80	Lw	22	<20						
	Lth	0.80	0.70						
	Ps	29	12						
	veff	2.20	1.80						
100	Lw	30	21						
	Lth	1	0.9	0.80					
	Ps	45	18	6					
	veff	2.80	2.30	1.60					
120	Lw	36	27	<20					
	Lth	1.20	1.10	0.90					
	Ps	64	26	9					
	veff	3.40	2.70	1.90					
150	Lw	41	33	<20					
	Lth	1.50	1.80	1.10	1				
	Ps	101	73	14	5				
	veff	4.20	4.55	2.40	1.80				
200	Lw	47	47	25	<20				
	Lth	2	2.30	1.50	1.30				
	Ps	179	113	24	9				
	veff	5.60	5.60	3.20	2.50				
300	Lw	55	53	33	23				
	Lth			2.30	2	1.70	1.80		
	Ps			55	20	6	4		
	veff			4.70	3.70	2.50	2.30		
400	Lw			44	35	<20	<20		
	Lth			3	2.70	2.20	2.40		
	Ps			98	36	11	8		
	veff			6.30	4.90	3.40	3.10		
500	Lw			52	43	28	25		
	Lth				3.30	2.80	3	2.50	
	Ps				56	18	12	6	
	veff				6.10	4.20	3.90	2.80	
600	Lw				49	34	31	<20	
	Lth				4	3.30	3.60	3	
	Ps				80	26	18	9	
	veff				7.40	5.10	4.60	3.30	
850	Lw				54	39	35	23	
	Lth					4.70	5	4.30	3.30
	Ps					52	36	19	12
	veff					7.20	6.60	4.70	3.80
1000	Lw					49	46	33	25
	Lth					5.50	5.90	5	3.90
	Ps					72	50	26	17
	veff					8.40	7.70	5.60	4.50
1200	Lw							38	29
	Lth							6	4.70
	Ps							37	24
	veff							6.70	5.40
	Lw							43	34

Symbols and specifications

- Values at ceiling height of 2.7m
- Temperature difference Dt = -10K
- Lth 0.25 = Horizontal throw in m at vt = 0.25m/s
- Ps = Static pressure loss in Pa
- Lw = Acoustic power in dB(A)



- Q_v = Air Volume in m^3/h
- 125 to 500 = neck size diffuser in mm
- A_{eff} = Effective area in m^2
- v_{eff} = Effective velocity between the blades of the diffuser in m/s