

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

## Accessories

- **DR**  
Volume dampers
- **RER**  
Plenum boxes
- **FGN**  
Crossbars for RWR-N, VWR-N,  
RWR-2 en PRN



## 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

### Mounting

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

### Accessories

- Plenum box type **RER-LB**
- Insulated plenum box type **RER-LB ISO**
- Plenumbox connection valve type **CRC**
- Mounting crossbar for direct duct mounting type **FGN**
- Mounting crossbar for direct ceiling mounting type **FHN**
- Butterfly volume control damper for mounting on the neck of the diffuser, type **DR**

### 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-LB + CRC 250**

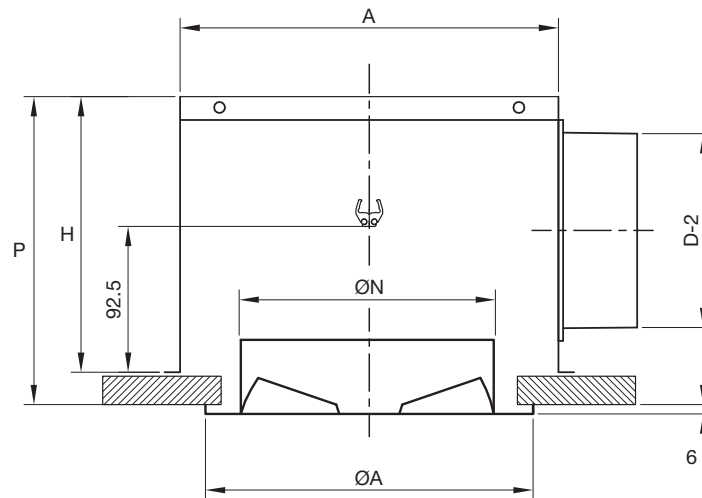
### Explanation

**RWR-N** = Diffuser type  
**315** = Diffuser size (Ø diffuser neck connection)

### Accessories

**RER-LB** = Plenum box  
**CRC** = Plenumbox connection valve  
**250** = Plenumbox connection diameter 250




**Dimensions**

Mogel	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

**Selection**

Qv	RWR-N	125	160	200	250	315	355	400	500
40	Aeff	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06
	Lth	0.40							
	Ps	7							
	Veфф	1.10							
	Lw	<20							
60	Lth	0.60	0.50						
	Ps	16	7						
	Veфф	1.70	1.40						
	Lw	22	<20						
	80	Lth	0.80	0.70					
Ps		29	12						
Veфф		2.20	1.80						
Lw		30	21						
100		Lth	1	0.9	0.80				
	Ps	45	18	6					
	Veфф	2.80	2.30	1.60					
	Lw	36	27	<20					
	120	Lth	1.20	1.10	0.90				
Ps		64	26	9					
Veфф		3.40	2.70	1.90					
Lw		41	33	<20					
150		Lth	1.50	1.80	1.10	1			
	Ps	101	73	14	5				
	Veфф	4.20	4.55	2.40	1.80				
	Lw	47	47	25	<20				
	200	Lth	2	2.30	1.50	1.30			
Ps		179	113	24	9				
Veфф		5.60	5.60	3.20	2.50				
Lw		55	53	33	23				
250		Lth			1.90	1.70	1.40		
	Ps			38	14	4			
	Veфф			3.90	3.10	2.10			
	Lw			39	30	<20			
	300	Lth			2.30	2	1.70	1.80	
Ps				55	20	6	4		
Veфф				4.70	3.70	2.50	2.30		
Lw				44	35	<20	<20		
400		Lth			3	2.70	2.20	2.40	
	Ps			98	36	11	8		
	Veфф			6.30	4.90	3.40	3.10		
	Lw			52	43	28	25		
	500	Lth				3.30	2.80	3	2.50
Ps					56	18	12	6	
Veфф					6.10	4.20	3.90	2.80	
Lw					49	34	31	<20	
600		Lth				4	3.30	3.60	3
	Ps				80	26	18	9	
	Veфф				7.40	5.10	4.60	3.30	
	Lw				54	39	35	23	
	700	Lth					3.90	4.20	3.50
Ps						35	24	13	8
Veфф						5.90	5.40	3.90	3.10
Lw						44	40	28	<20
850		Lth					4.70	5	4.30
	Ps					52	36	19	12
	Veфф					7.20	6.60	4.70	3.80
	Lw					49	46	33	25
	1000	Lth					5.50	5.90	5
Ps						72	50	26	17
Veфф						8.40	7.70	5.60	4.50
Lw						54	50	38	29
1200		Lth							6
	Ps							37	24
	Veфф							6.70	5.40
	Lw							43	34
	1400	Lth							7
Ps								50	33
Veфф								7.80	6.30
Lw								47	39

**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)
- Qv = Air Volume in m<sup>3</sup>/h
- 125 to 500 = neck size diffuser in mm
- Aeff = Effective area in m<sup>2</sup>
- veфф = Effective velocity between the blades of the diffuser in m/s