



Swirl diffusers for system ceilings type PS/RWR-N

Swirl diffusers for system ceiling with fixed blades

Application

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

Material

- Steel

Mounting

- Fixing directly on the collar of the diffuser

Accessories

- Plenum type **RER-LB**
- Insulated plenum type **RER-LB ISO**
- Plenumbox connection valve type **CRC**
- Butterfly volume control damper for mounting on the neck of the diffuser, type **DR**

Text for tender

- The air supply system ceiling diffusers shall be of the swirl type with fixed blades and made of steel with white powder coating RAL 9010. Supplied with volume control damper in the plenum box
- Type ATC **PS/RWR-N+RER-L**

Other available products

- For **PS/RWR-N 500** see **VWR-N 500**

Order example

- **PS/RWR-N, 315 + RER-LB + CRC 250**

Explanation

PS/RWR-N = Type diffuser

315 = Size diffuser (Ø diffuser neck connection)

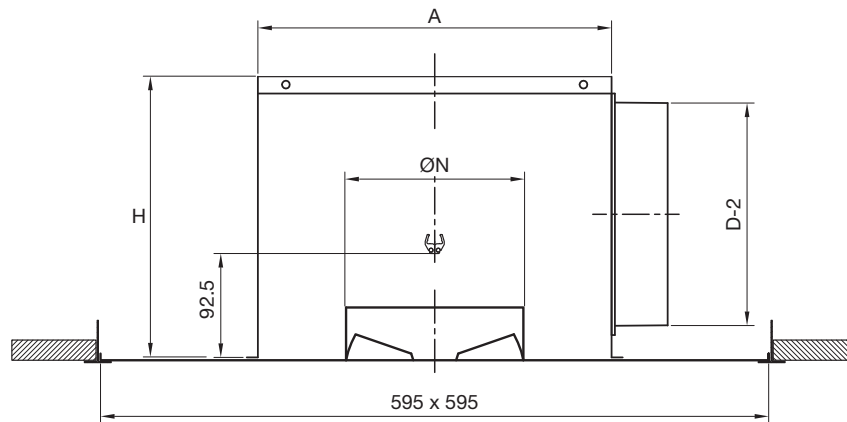
Accessories

RER-LB = Plenumbox

CRC = Plenumbox connection valve

250 = Plenumbox connection diameter 250




Dimensions

Модел	ØN1 [mm]	ØN [mm]
125	123	125
160	158	160
200	198	200
250	248	250
315	313	315
355	353	355
400	398	400

Selection

Qv	PS/RWR-N	125	160	200	250	315	355	400	500
		Aeff	0.01	0.01	0.02	0.02	0.03	0.04	0.05
40	Lth	0.40							
	Ps	7							
	Veff	1.10							
	Lw	<20							
	Lth	0.60	0.50						
60	Ps	16	7						
	Veff	1.70	1.40						
	Lw	22	<20						
	Lth	0.80	0.70						
	Ps	29	12						
80	Veff	2.20	1.80						
	Lw	30	21						
	Lth	1	0.9	0.80					
	Ps	45	18	6					
	Veff	2.80	2.30	1.60					
100	Lw	36	27	<20					
	Lth	1.20	1.10	0.90					
	Ps	64	26	9					
	Veff	3.40	2.70	1.90					
	Lw	41	33	<20					
120	Lth	1.50	1.80	1.10	1				
	Ps	101	73	14	5				
	Veff	4.20	4.55	2.40	1.80				
	Lw	47	47	25	<20				
	Lth	2	2.30	1.50	1.30				
150	Ps	179	113	24	9				
	Veff	5.60	5.60	3.20	2.50				
	Lw	55	53	33	23				
	Lth			1.90	1.70	1.40			
	Ps			38	14	4			
200	Veff			3.90	3.10	2.10			
	Lw			39	30	<20			
	Lth			2.30	2	1.70	1.80		
	Ps			55	20	6	4		
	Veff			4.70	3.70	2.50	2.30		
250	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		
	Lw			52	43	28	25		
300	Lth				3.30	2.80	3	2.50	
	Ps				56	18	12	6	
	Veff				6.10	4.20	3.90	2.80	
	Lw				49	34	31	<20	
	Lth				4	3.30	3.60	3	
400	Ps				80	26	18	9	
	Veff				7.40	5.10	4.60	3.30	
	Lw				54	39	35	23	
	Lth					3.90	4.20	3.50	2.70
	Ps					35	24	13	8
500	Veff				5.90	5.40	3.90	3.10	
	Lw				44	40	28	<20	
	Lth				4.70	5	4.30	3.30	
	Ps				52	36	19	12	
	Veff				7.20	6.60	4.70	3.80	
600	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	
	Lw				54	50	38	29	
700	Lth						6	4.70	
	Ps						37	24	
	Veff						6.70	5.40	
	Lw						43	34	
	Lth							7	5.50
850	Ps							50	33
	Veff							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 m³/h
- 125 to 500 = neck size diffuser in mm
- Aeff = Effective area in m²
- veff = Effective velocity between the blades of the diffuser in m/s