VWR-N

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

Accessories

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

Square swirl diffusers type VWR-N

Square 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 damper for mounting ont the neck of the diffuser, type **DR**

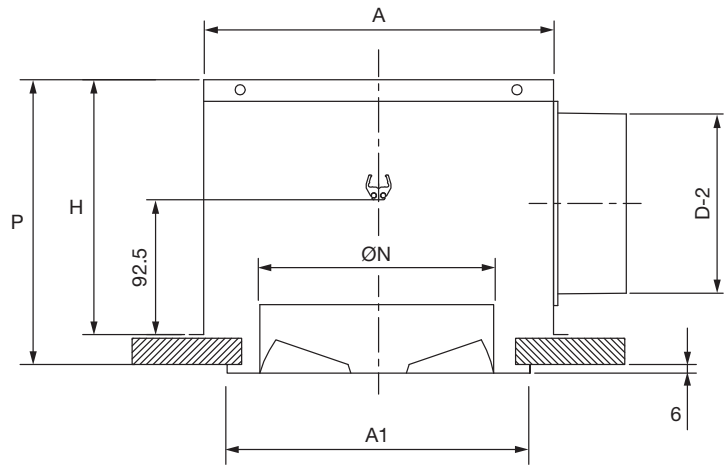
Text for tender

- The square 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.
- ATC Type **VWR-N+RER-L**

Order example

- **VWR-N, 315 + RER-LB 315 + CRC 250**

Explanation
VWR-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

Модел	AxA [mm]	ØN1 [mm]	ØN [mm]
125	171x171	123	125
160	213x213	158	160
200	264x264	198	200
250	326x326	248	250
315	405x405	313	315
355	455x455	353	355
400	510x510	398	400
500	594x594	498	500

Selection

Qv	VWR-N	125	160	200	250	315	355	400	500
	Aeff	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06
	Lth	0.40							
	Ps	7							
	Veff	1.10							
40	Lw	<20							
	Lth	0.60	0.50						
	Ps	16	7						
	Veff	1.70	1.40						
60	Lw	22	<20						
	Lth	0.80	0.70						
	Ps	29	12						
	Veff	2.20	1.80						
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					
120	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				
150	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				
200	Lw	55	53	33	23				
	Lth			1.90	1.70	1.40			
	Ps			38	14	4			
	Veff			3.90	3.10	2.10			
250	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		
300	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		
400	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	
500	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	
600	Lw				54	39	35	23	
	Lth					3.90	4.20	3.50	2.70
	Ps					35	24	13	8
	Veff					5.90	5.40	3.90	3.10
700	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
850	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
1000	Lw					54	50	38	29
	Lth							6	4.70
	Ps							37	24
	Veff							6.70	5.40
1200	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)
- Qv = Air Volume in m^3/h
- 125 to 500 = neck size diffuser in mm
- Aeff = Effective area in m^2
- veff = Effective velocity between the blades of the diffuser in m/s