

WTPP/WRPP

Wall diffuser
Supply/Return
Vandal-proof

Available types

W - P P O -

W wall diffuser

- **Supply/Return**

T supply

R return

P square perforated

P vandal-proof

O no accessories

- **Version**

O none

S section, 300 mm

SA-Select

Check SA-Select to create extended order codes and selection details online. **NB!** At this moment, SA-Select is only available in Dutch. But it is possible to create extended order codes and selection details online

Use

The WTPP wall diffuser is suitable for supplying cooled air with a large temperature difference in respect of the room temperature. The strong finish makes the diffuser suitable for rooms subject to vandalism, such as police cells. The diffuser cannot be removed from the front, it is fitted from the back. A WRPP return version is available.

Characteristics

Free flow: 45 %

Version

Wall diffuser

Frame: steel 3 mm

Perforated: steel, round 4.5 mm pitch 6 mm

Internal unit: steel

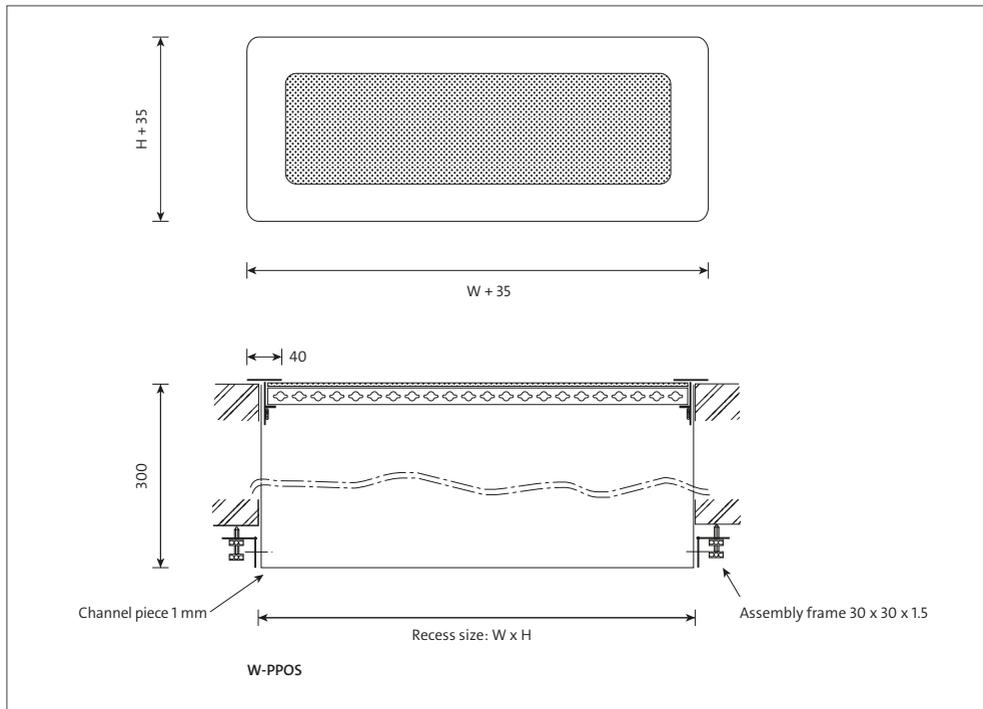
Post-treatment: epoxy

Colour: white RAL 9010

Section

Material: sendzimir galvanised steel,
1 mm thick

Maatvoering



Available dimensions

H	W			
	225	325	425	525
125	■	■	■	■
225			■	■

Note

- The listed dimensions are in mm.
- $W \times H$ is the recess size.
- Fit the diffuser to maximum 0.2 m below the ceiling.
- If the distance below the ceiling is greater, the Coanda effect will be small during cooling and this may create an unstable air pattern.

Selection details

WTPP Supply

air volume		H	B												
m ³ /s	m ³ /h		225			325			425			525			
			throw m	Δp_s Pa	L_{pA} dB(A)										
0.015	54	125	2.0	5	-										
0.020	72	125	2.7	9	-	2.0	4	-							
0.030	108	125	4.0	21	13	2.7	9	-	2.1	5	-				
0.040	144	125	5.3	38	22	3.4	15	-	2.9	8	-	1.9	5	-	
0.050	180	125	6.6	59	29	4.5	24	17	3.5	13	-	2.6	8	-	
0.060	216	125	7.9	85	34	5.4	34	22	4.2	18	14	3.1	11	-	
0.070	252	125				6.4	47	27	4.8	25	19	3.7	16	13	
0.080	288	125				7.3	61	31	5.5	33	23	4.4	20	17	
0.080	288	225							3.9	6	-				
0.100	360	125							6.9	51	30	5.5	32	24	
0.100	360	225							5.2	9	-	4.2	6	-	
0.125	450	125										6.9	50	31	
0.125	450	225							6.5	15	15	5.2	9	-	
0.150	540	225							7.8	21	20	6.3	13	14	
0.200	720	225							10.5	38	29	8.4	23	23	
0.250	900	225							12.9	59	36	10.2	37	30	
0.300	1080	225										12.1	53	35	

WRPP Return

air volume		H	B							
m ³ /s	m ³ /h		225		325		425		525	
			Δp_s Pa	L_{pA} dB(A)						
0,015	54	125	6	-						
0,020	72	125	11	-	5	-				
0,030	108	125	25	16	11	-	6	-		
0,040	144	125	46	25	18	-	10	-	6	-
0,050	180	125	71	32	29	20	16	-	10	-
0,060	216	125	102	37	41	25	22	17	13	-
0,070	252	125			56	30	30	22	19	16
0,080	288	125			73	34	40	26	24	20
0,080	288	225					7	-		
0,100	360	125					61	33	38	27
0,100	360	225					11	-	7	-
0,125	450	125							60	34
0,125	450	225					18	18	11	-
0,150	540	225					25	23	16	17
0,200	720	225					46	32	28	26
0,250	900	225					71	39	44	33
0,300	1.080	225							64	38

General

- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.