

# WTPP/WRPP

Wall diffuser

Supply/Return

Vandal-proof

## 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

## 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.

## Available types

**W - P P O -**

**W** wall diffuser

- **Supply/Return**

**T** supply

**R** return

**P** square perforated

**P** vandal-proof

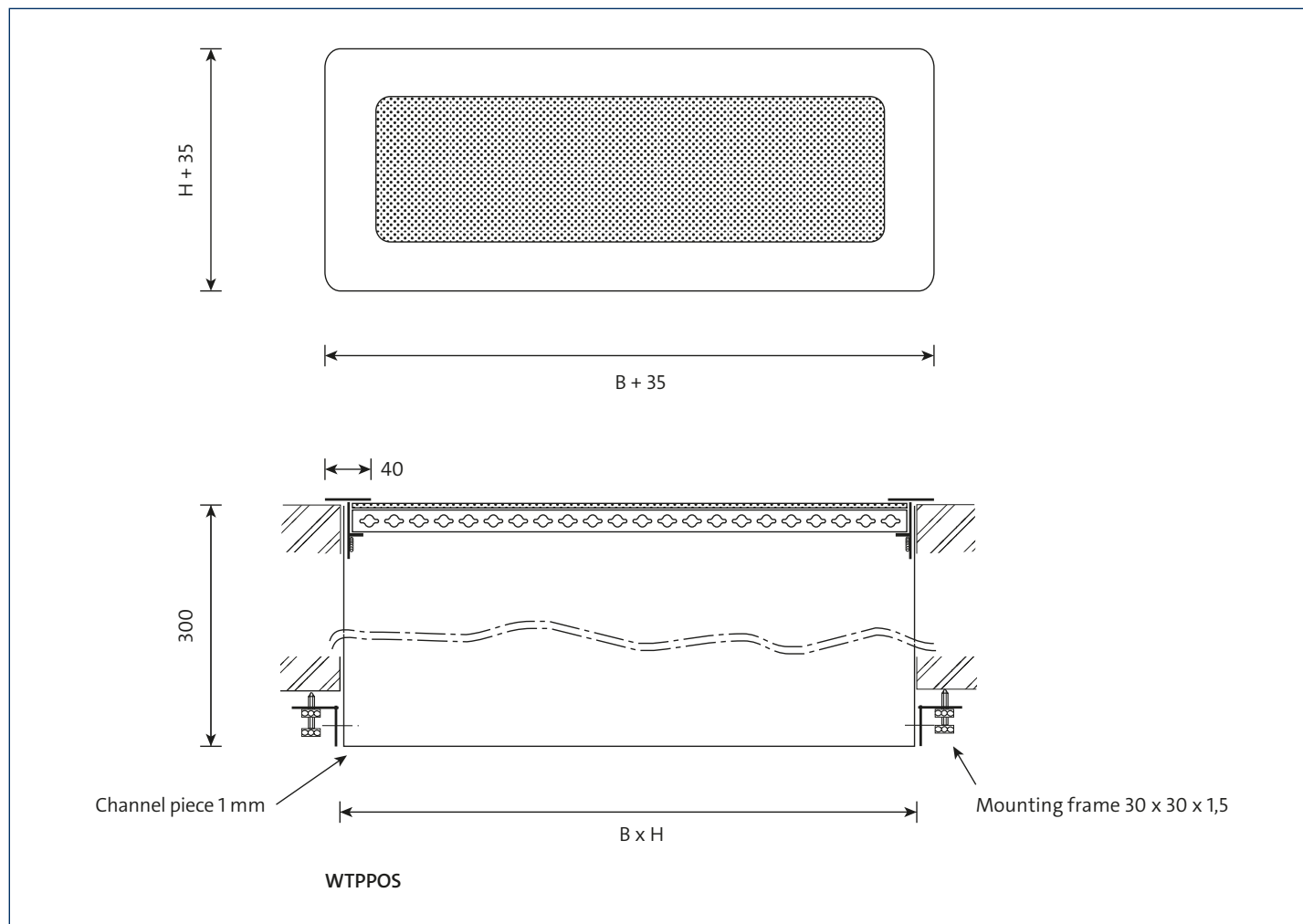
**O** no accessories

- **Version**

**O** none

**S** section, 300 mm

## Dimensions



## Available dimensions

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

## Note

- The 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	W											
m <sup>3</sup> /s	m <sup>3</sup> /h		225			325			425			525		
			throw m	$\Delta p_s$ Pa	$L_{pA}$ dB(A)	throw m	$\Delta p_s$ Pa	$L_{pA}$ dB(A)	throw m	$\Delta p_s$ Pa	$L_{pA}$ dB(A)	throw m	$\Delta p_s$ 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	1,080	225										12.1	53	35

## General

- The pressure loss applies to a fully opened volume unit.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.
- When air is drawn in, the values in the table need to be corrected with the following factors:
  - $\Delta p_s = \text{table value} \times 1.1.$
  - $L_{pA} = \text{table value} + 2 \text{ dB}.$