WTRP/WRRP

Wall diffuser
Supply/Return
Vandal-proof

Available types
W - R P - S

W wall diffuser

- **Supply/Return**
  T supply
  R return

R round, perforated
P vandal-proof

- **Accessories**
  O none
  K clamp ring

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 WTRP 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. It is possible to put a BFDC fire-resistant butterfly valve in the duct. The WRRP type is suitable for return air and has the same appearance as the supply diffuser WTRP.

Characteristics

Free flow:	45 %

Version
Wall diffuser

Frame:	steel 3 mm
Perforated:	steel
Internal unit:	steel
Post-treatment:	epoxy
Colour:	white RAL 9010, optional RAL colour of your choice

Section

Material:	sendzimir galvanised steel

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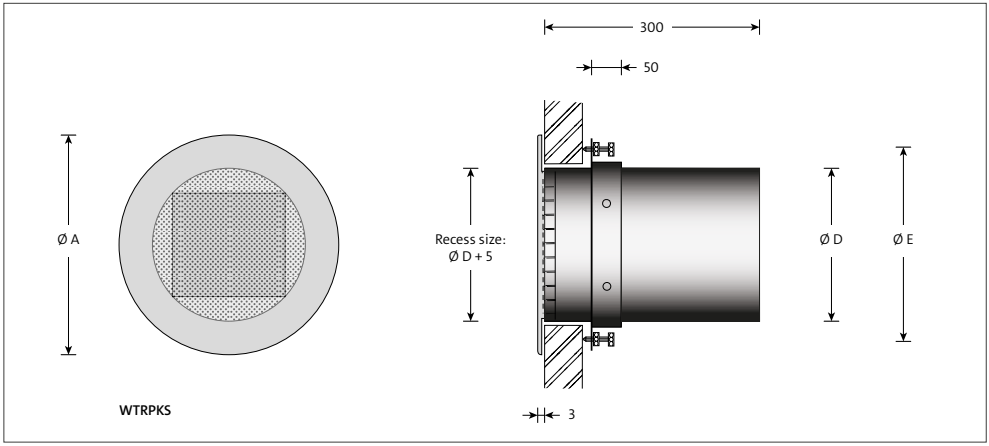
Dimensions



Available dimensions and sizes

model	A	D	E
160	240	159	213
200	280	199	253

Note

- The listed dimensions are in mm.
- 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

WTRP

air volume		model 160			model 200		
m^3/s	m^3/h	throw m	Δp_s Pa	L_{pA} dB(A)	throw m	Δp_s Pa	L_{pA} dB(A)
0.015	**54**	**3.2**	13	-	**2.0**	5	-
0.020	**72**	**4.3**	24	16	**2.7**	9	-
0.030	**108**	**6.3**	53	28	**4.0**	19	15
0.040	**144**				**5.1**	34	24
0.050	**180**				**6.3**	53	30
0.060	**216**				**7.5**	77	36

WRRP

air volume		model 160		model 200	
m^3/s	m^3/h	Δp_s Pa	L_{pA} dB(A)	Δp_s Pa	L_{pA} dB(A)
0.015	**54**	14	-	6	-
0.020	**72**	26	21	10	-
0.030	**108**	58	33	21	20
0.040	**144**			37	29
0.050	**180**			58	35
0.060	**216**			85	41

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.

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