

WTVM/WRVM

Wall diffuser

Supply/Return



Use

The WTVM wall diffuser is suitable for supplying cooled or heated air. The diffuser is suitable for use in nursing homes, schools, community centres and other buildings where the diffuser is placed directly on the fire-separating wall. It is possible to put a BFDC fire damper in the connecting duct. The diffuser is intended for fitting in a wall at a height of approx. 2.7 m. The diffuser blows towards the wall and downwards.

At floor level, the air flow behaves as with a displacement diffuser. When the diffuser is fitted, check there are no obstacles below the diffuser.

The WRVM diffuser is suitable for return air.

Characteristics

Displacement or downflow principle

undertemperature:	up to 8 K
overtemperature:	up to 8 K

Version

Wall diffuser

frame:	anodised aluminium
internal unit:	steel
post-treatment:	epoxy
colour:	white RAL 9010, optional RAL colour of your choice

Plenum box

material:	sendzimir galvanised steel
post-treatment:	epoxy
colour:	white RAL 9010

Optional

mounting holes:	in frame
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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 - V M O -

W wall diffuser

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

V vertical

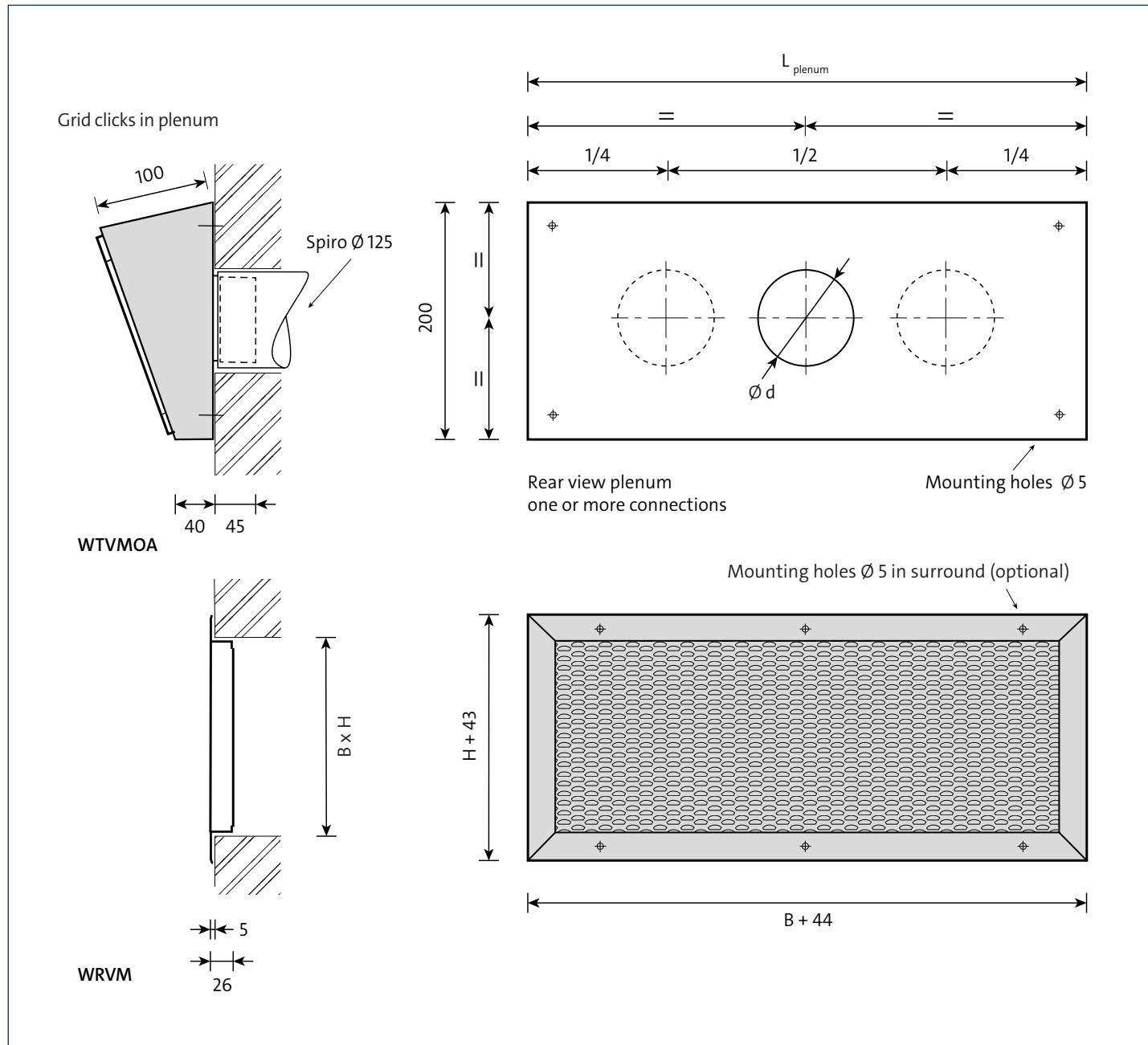
M wall mounting

O no accessories

- Version

- O** no plenum
- A** plenum with a rear connection

Dimensions



Available dimensions and sizes

W x H	L _{plenum}	D
225 x 125	280	123
325 x 125	380	123
425 x 125	480	123
525 x 125	580	123
625 x 125	680	2 x 123
825 x 125	880	2 x 123
1,025 x 125	1,080	2 x 123

Note

- The dimensions are in mm.
- W x H is the recess size.

Selection details

WTVM

air volume		H	W																1025									
			225				325				425				525				625				825					
m³/s	m³/h	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)	Z _{0,2} m	Δp _s Pa	L _{pA} dB(A)			
0.015	54	125	1.2	13	13	0.5	6	-	0.3	3	-	0.2	2	-														
0.020	72	125	2.3	23	22	1.0	10	11	0.5	6	-	0.4	4	-	0.3	3	-											
0.030	108	125				2.3	23	24	1.2	13	16	0.8	8	10	0.5	6	-	0.3	3	-	0.2	2	-					
0.040	144	125				5.1	40	33	2.4	23	25	1.4	15	19	1.0	10	14	0.5	6	-	0.4	4	-					
0.050	180	125							4.2	36	32	2.4	23	26	1.5	16	21	0.8	9	14	0.6	6	-					
0.060	216	125										3.8	33	32	2.4	23	27	1.2	13	19	0.8	8	14					
0.070	252	125													3.5	31	32	1.7	18	24	1.1	11	18					
0.080	288	125													5.1	41	36	2.4	23	28	1.4	15	22					
0.100	360	125																4.2	36	35	2.4	23	29					
0.125	450	125																			4.3	36	36					

WRVM

air volume		H	W																1025									
			225				325				425				525				625				825					
m³/s	m³/h		Δp _s Pa	L _{pA} dB(A)																								
0.015	54	125	12	15	5	-	3	-																				
0.020	72	125	21	25	9	14	5	-	3	-	2	-																
0.030	108	125			21	26	11	19	7	13	7	12	4	-														
0.040	144	125			38	35	20	28	12	22	9	17	7	11	3	-												
0.050	180	125					32	35	19	30	14	24	9	17	5	12												
0.060	216	125							28	35	20	30	12	22	7	17												
0.070	252	125									28	35	16	26	10	21												
0.080	288	125													19	31	13	25										
0.100	360	125													30	37	21	31										

General

- The operating range Z_{0,2} applies when the diffuser is fitted at a height of 2.7 m above the floor.
- Z_{0,2} is the distance at which the maximum flow speed, measured at 10 cm above the floor, has dropped to 0.2 m/s. The Z_{0,2} values apply with an undertemperature of 8 K between the inflow temperature and the room temperature.
- Operating range Z_{0,2} in metres.
- Minimum centre-to-centre distance of the diffusers in a horizontal direction: Z_{0,2} × 2.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.

Discharge pattern and operating range

