WTPD

Wall diffuser
Supply
Perforated

Available types

W T P D O -

- **W** wall diffuser
- **T** supply
- **P** perforated face plate (removable)
- **D** surface-mounted frame, 26 mm
- **O** no accessories

- **Version**
- **R** internally insulated plenum box, rear connection
- **U** uninsulated plenum box, rear connection
- **T** left side connection, internally insulated plenum box
- **S** left side connection, uninsulated plenum box
- **K** right side connection, internally insulated plenum box
- **E** right side connection, uninsulated plenum box

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 WTPD wall diffuser is suitable for supplying cooled air with a large temperature difference in respect of the room temperature. The diffuser has an extremely short throw, making it suitable for fitting in an internal wall of a room with an isothermal flow towards radiators or convectors.

Characteristics

Max. number of air changes:	up to 8 x
Undertemperature:	up to 10 K
Overtemperature:	up to 5 K

Version

Perforated diffuser

Frame:	anodised aluminium
Front plate:	steel
Post-treatment:	epoxy
Colour:	white RAL 9010, optional RAL colour of your choice

Plenum box

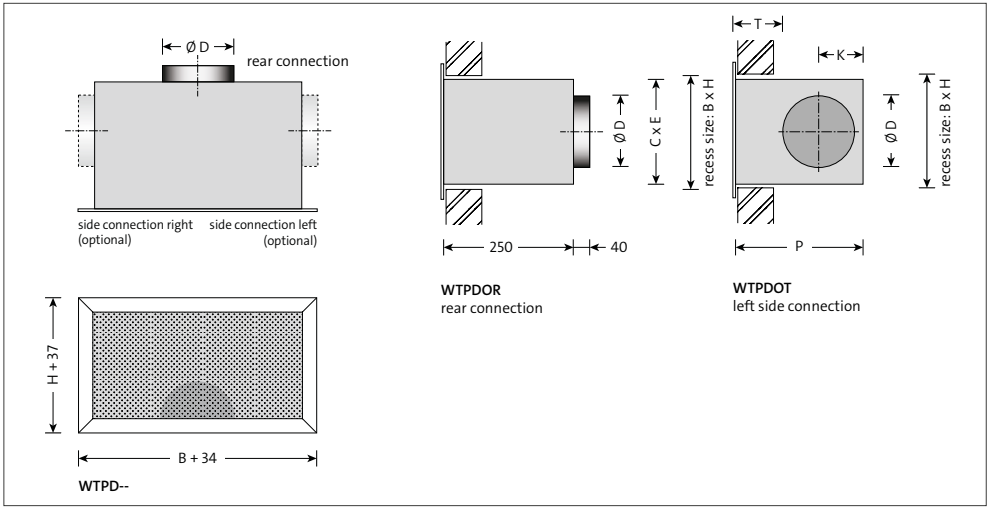
Material:	sendzimir galvanised steel
Internal insulation:	1/2” duct liner
Post-treatment:	none

Optional

Plenums for different wall thicknesses.

2024_08_v2

Dimensions



Available dimension and sizes

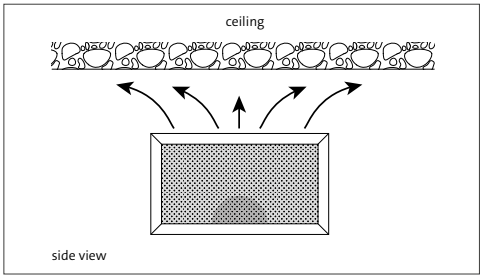
model	B	H	C	E	D	P*	K*	T*
300	313	150	305	145	123	343	107	174
400	388	200	380	195	158	378	124	175
500	483	248	475	240	198	418	144	175
600	578	313	570	305	248	468	169	175

*) with a side connection only

Note

- The listed dimensions are in mm.
- W x H is the recess size.
- Sizes P*, K* en T* are based on a wall thickness of 110 mm.

Discharge pattern



Selection details

WTPD

air volume		model	throw	Δp_s	L_{pA}
m^3/s	m^3/h		m	Pa	dB(A)
0.012	45	300	0.6	1	-
0.015	54	300	0.7	1	-
0.020	72	300	0.9	3	11
		400	0.8	1	3
0.025	90	300	1.2	4	17
		400	1.0	2	9
0.030	108	300	1.5	6	21
		400	1.1	3	14
0.040	144	300	1.8	11	29
		400	1.5	6	21
		500	1.3	4	14
0.050	180	300	2.3	17	35
		400	1.9	9	27
		500	1.6	4	19
		600	1.4	4	16
0.060	216	400	2.4	13	33
		500	2.0	10	25
		600	1.8	6	19
0.080	288	400	2.9	19	37
		500	2.5	15	30
		600	2.2	8	24
0.100	360	500	3.3	25	37
		600	2.9	14	31
0.125	450	600	3.6	22	37
0.150	540	600	4.3	32	42

General

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

2024_08_v2