



PTVD/PTDD

Perforated diffuser
Supply
Surface-mounted, removable

Available types

P T - D O -

P perforated ceiling diffuser

T supply

- Face plate (removable)

V flat

D dropped 8 mm

D surface-mounted

O no accessories

- Version

A round top connection

R assembled, internally insulated plenum box

U assembled, 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 PTVD perforated diffuser is suitable for supplying cooled or heated air with a large temperature difference in respect of the room temperature. The diffuser can be fitted in the ceiling and can be fitted with an insulated or uninsulated plenum box, which is supplied ready assembled, with a stabilising plate. As standard, the plenum box is equipped with 8 mm hanging holes in the raised edge of the plenum. With the four built-in pattern blades, there is a free choice of discharge direction, even after fitting. With the high induction effect, a large number of air changes is feasible. The pure radial pattern ensures minimal smudging of the ceiling. With the extremely shallow inflow pattern, the PTVD diffuser is also suitable for lower rooms.

Characteristics

Max. number of air changes: up to 15 x

Undertemperature: up to 10 K

Overtemperature: up to 15 K

Version

Perforated diffuser

Frame: extruded aluminium

Front face: steel

Post-treatment: epoxy

Colour: white RAL 9010, optional RAL colour of your choice

Plenum box

Material: sendzimir galvanised steel

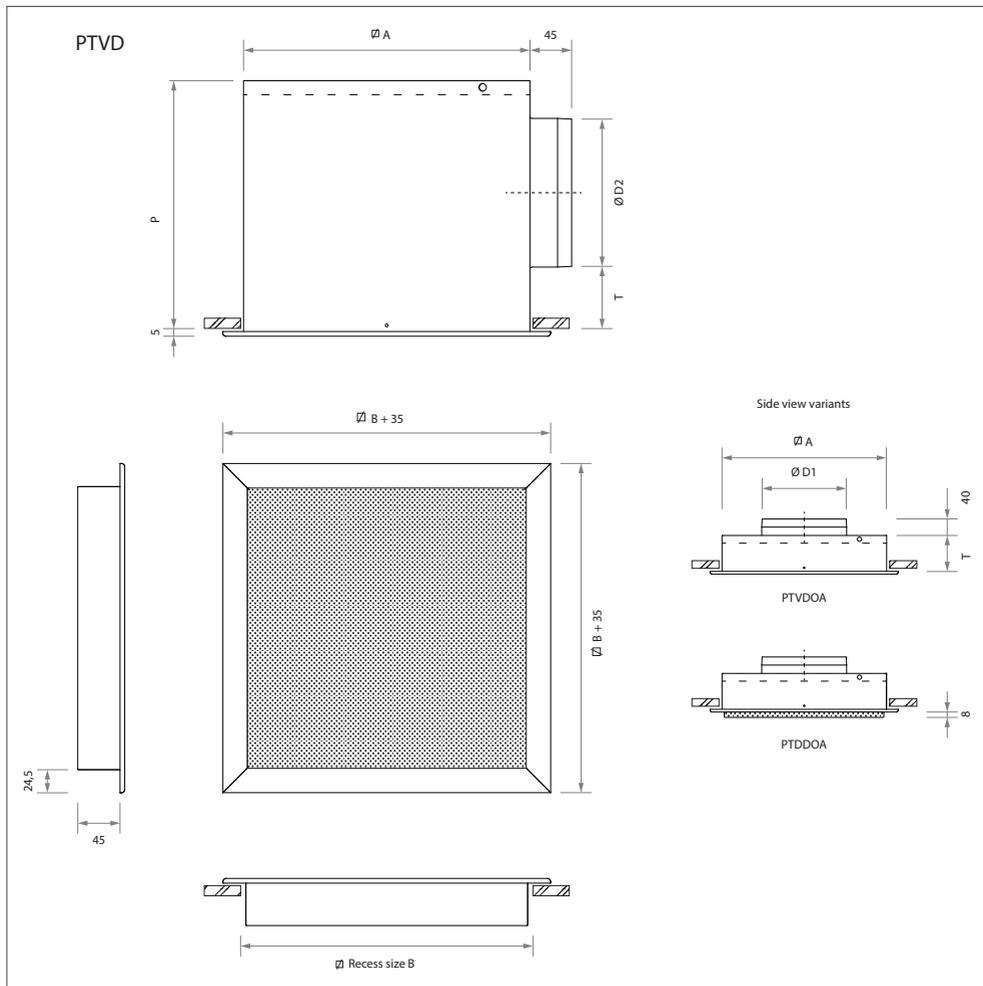
Internal insulation: 1/2" duct liner

Post-treatment: none

Optional

Plenum box: flat-sided

Dimensions



Available dimensions and sizes

model	B	A	D1	D2	T	P
250	249	242	123	123	70	235
300	313	307	158	158	70	270
400	388	382	198	198	75	315
500	483	477	248	198	85	325
550	556	551	313	248	105	395

Note

- The listed dimensions are in mm.
- Information regarding flat-sided plenum boxes is available on our [website](#).

Weight

model	type	
	without plenum OA	with plenum OR/OU
	kg	kg
250	1.4	2.6
300	1.9	3.8
400	2.5	5.4
500	3.6	7.4
550	4.6	9.9

Selection details

PT-D

air volume		model	discharge pattern														
			4-sided			3-sided			2-sided opposite			2-sided angle			1-sided		
m ³ /s	m ³ /h	throw m	Δp _s Pa	L _{PA} dB(A)	throw m	Δp _s Pa	L _{PA} dB(A)	throw m	Δp _s Pa	L _{PA} dB(A)	throw m	Δp _s Pa	L _{PA} dB(A)	throw m	Δp _s Pa	L _{PA} dB(A)	
0.015	54	250	0.4	1	-	0.4	1	-	0.6	2	3	0.6	3	5	0.9	7	13
0.020	72	250	0.6	1	5	0.6	2	7	0.7	4	10	0.7	4	12	1.2	12	21
0.025	90	250	0.7	2	11	0.7	3	13	0.9	5	16	0.9	7	18	1.5	19	27
		300	0.6	1	-	0.6	1	4	0.8	3	7	0.8	3	9	1.3	9	19
0.030	108	250	0.8	3	16	0.9	4	18	1.1	8	21	1.1	10	23	2.0	28	31
		300	0.7	1	2	0.7	2	8	0.9	4	12	0.9	5	14	1.5	13	23
0.040	144	250	1.1	4	23	1.2	6	25	1.5	13	28	1.5	17	29	2.5	49	39
		300	0.9	3	14	1.0	3	16	1.2	6	19	1.2	8	21	2.0	23	31
0.050	180	400	0.8	1	6	0.8	2	8	1.0	3	12	1.0	4	12	1.7	11	22
		250	1.4	6	29	1.5	10	31	1.9	20	34	1.9	25	34			
		300	1.2	4	20	1.2	5	22	1.5	10	25	1.5	13	27	2.5	34	36
0.060	216	400	1.0	2	12	1.0	3	14	1.3	5	17	1.3	6	18	2.1	17	28
		250	1.7	8	34	1.8	13	36	2.2	28	39	2.2	35	41			
		300	1.5	6	24	1.5	8	26	1.8	14	30	1.8	19	32	3.0	51	41
0.080	288	400	1.1	3	17	1.3	4	19	1.5	7	21	1.5	8	23	2.5	24	32
		500													2.1	13	25
		300	1.8	11	32	1.9	14	34	2.4	26	37	2.4	33	39			
		400	1.5	6	24	1.7	7	25	2.0	13	29	2.0	15	30	3.4	43	40
0.100	360	500	1.3	4	17	1.4	5	19	1.8	8	22	1.8	10	24	2.8	23	32
		550													2.4	13	27
		300	2.3	17	38	2.4	21	40									
		400	1.9	9	30	2.1	11	32	2.6	20	32	2.6	23	36			
0.125	450	500	1.6	4	22	1.8	8	25	2.2	12	28	2.2	15	30	3.5	35	38
		550	1.4	4	16	1.6	4	19	1.9	7	21	1.9	8	23	3.1	21	32
		400	2.4	13	36	2.6	18	35									
0.150	540	500	2.0	10	28	2.3	12	30	2.8	19	34	2.8	23	36			
		550	1.8	6	22	2.0	7	24	2.4	10	27	2.4	13	29	3.8	32	38
		400	2.9	19	40												
0.200	720	500	2.5	13	33	2.7	17	35	3.4	28	38	3.4	34	41			
		550	2.2	8	27	2.4	10	29	2.9	15	32	2.9	19	34	4.6	47	43
0.250	900	500	3.3	25	40	3.6	30	43									
0.300	1080	500	2.9	14	34	3.2	18	37	3.9	27	40	3.9	33	41			
		550	3.6	22	40	4.0	27	42	4.9	42	45	4.9	50	46			
		550	4.3	32	45												

Attenuation plenum box (without end reflection)

model	attenuation values						
	125	250	500	1k	2k	4k	Hz
250	5	0	3	10	5	11	dB
300	3	1	6	7	7	9	dB
400	2	2	9	7	7	9	dB
500	2	4	9	7	7	10	dB
550	0	6	7	7	6	9	dB

General

- The throw applies to flush-mounting in a flat, closed ceiling.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.

Discharge pattern



4-sided



3-sided



2-sided angle



2-sided opposite



1-sided



pattern blade "closed"



pattern blade "open"