



PTVS/PTTS

Perforated diffuser

Supply

T-bar mounted in modular ceiling

Removable

Use

The PTVS perforated diffuser is suitable for supplying cooled or heated air with a large temperature difference in respect of the room temperature. The diffuser has a removal face plate on the sight side, it can be T-bar mounted in a modular ceiling with a panel size of 600 mm 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 pattern. It is easy to adjust the discharge pattern, even after fitting. The high induction effect facilitates a large number of air changes. The pure radial pattern ensures minimal smudging of the ceiling. With the extremely shallow discharge pattern, the PTVS 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

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

panel size:	up to 750 mm
plenum box:	flat-sided

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

PT - S - O -

- P** perforated ceiling diffuser
- T** supply

- Face plate (passe-partout)

- V** flat
- T** 13 mm dropped (only in combination with ceiling version I)

S modular ceiling panel size 600 mm, removable

- Ceiling version (see table on [page 22](#))

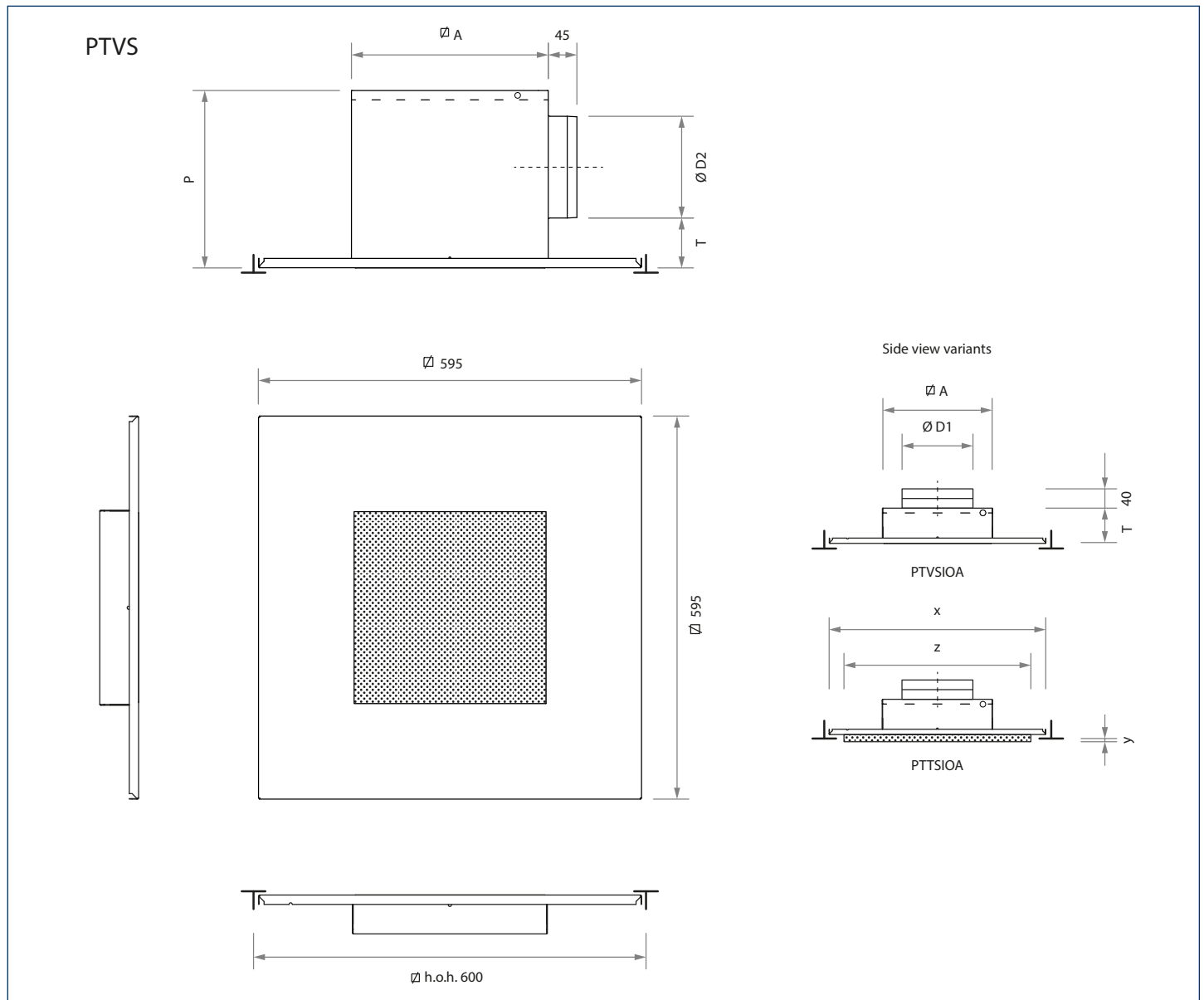
- I** T-bar mounted
- A** concealed panel (concealed ceiling version)
- B** concealed panel (concealed ceiling version)
- C** concealed panel (concealed ceiling version)

O no accessories

- Version

- A** round top connection
- R** assembled, internally insulated plenum box
- U** assembled, uninsulated plenum box

Dimensions



Available dimensions and sizes

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

Weight

model	type	
	without plenum OA	with plenum OR/OU
	kg	kg
250	2.8	4.0
300	2.9	4.9
400	3.1	6.0
500	3.4	7.3
550	4.0	9.3

Note

- The dimensions are in mm.
- For the PTTS version with a flat-sided front, the dimensions x, y and z must be given in the order.
x - z ≥ 12 mm (model 550: z = 583 mm).
y ≥ 6 mm.
- Information regarding flat-sided plenum boxes is available on our [website](http://www.solid-air.com).

Selection details

PT-5

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	19	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
		400	0.8	1	6	0.8	2	8	1.0	3	12	1.0	4	12	1.7	11	22
0.050	180	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
		400	1.0	2	12	1.0	3	14	1.3	5	17	1.3	6	18	2.1	17	28
0.060	216	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
		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
0.080	288	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
		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
0.100	360	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			
		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
0.125	450	400	2.4	13	36	2.6	18	35									
		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
0.150	540	400	2.9	19	40												
		500	2.5	8	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
0.200	720	500	3.3	25	40	3.6	30	43									
		550	2.9	14	34	3.2	18	37	3.0	27	40	3.0	33	41			
0.250	900	550	3.6	22	40	4.0	27	42	4.9	42	45	4.9	50	46			
0.300	1080	550	4.3	32	45												

Attenuation values plenum box

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"

Concealed ceiling version

manufacturer	product/type	version
Ecophon	Focus™ Ds	B
	Hygiene Labotec™ Ds C1	B
	Sombra™ Ds	B
	Combison Uno™ Ds	B
OWA	Cosmos	A
	Sinfonia	A
Rockfon	Sonar system D	A
	Krios System D	A
	Sonar system X	C
	Krios System X	C

