



PSVT/PTVT/PRVT

Perforated diffuser

Supply/Return

T-bar mounted in modular ceiling

Panel size of 300 mm

Use

The PSVT and PTVT perforated diffusers are suitable for supplying cooled or heated air with a large temperature difference in respect of the room temperature.

These diffusers can be T-bar mounted in a modular ceiling with a panel size of 300 mm and have an insulated plenum box, which is supplied ready assembled. The supply diffusers have a stabilising plate. As standard, the plenum box is equipped with 8 mm hanging holes in the raised edge of the plenum.

The PSVT type has a fixed one-sided discharge pattern. The PTVT type has adjustable pattern blades that facilitate a free choice of the discharge direction. With the extremely shallow discharge pattern, these diffusers are also suitable for lower rooms.

The radial pattern ensures minimal smudging of the ceiling.

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

plenum box:	flat-sided
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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

P - V T O R

P perforated ceiling diffuser

- Discharge pattern

S supply, one-sided discharge pattern (fixed)

T supply, adjustable discharge pattern
(with pattern blades)

R return

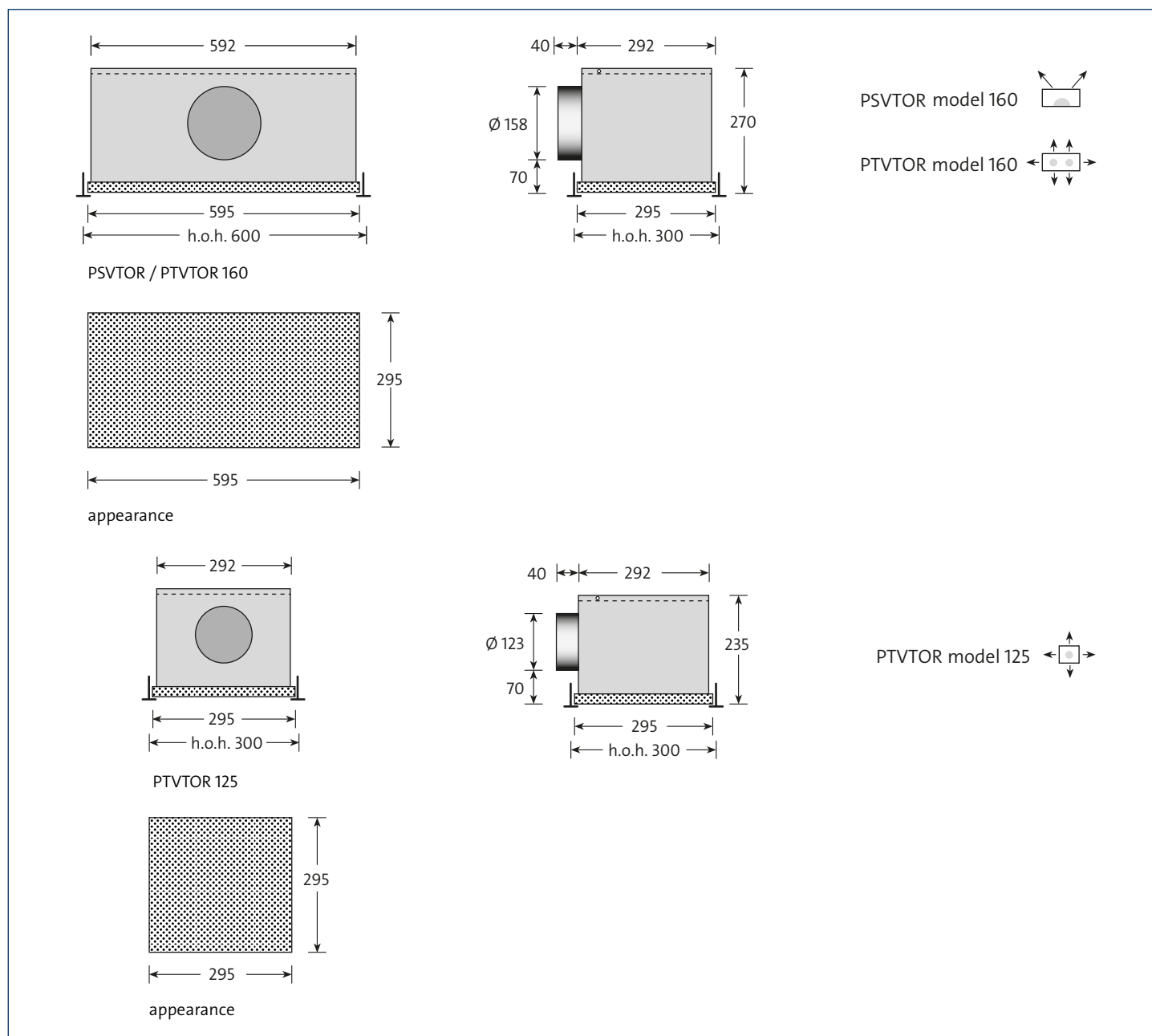
V flat face plate

T surface-mounted on ceiling tile, T-bar mounted in modular ceiling

O not applicable

R assembled, internally insulated plenum box

Dimensions



Available dimensions and sizes

model	panel size	
	600 x 300	300 x 300
PSVTOR 160	■	
PTVTOR 125		■
PTVTOR 160	■	
PRVTOR 125		■
PRVTOR 160	■	

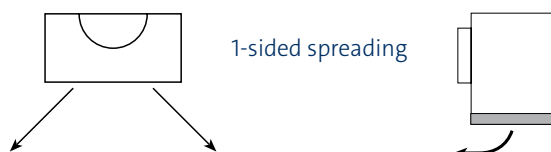
Note

- The dimensions are in mm.
- The discharge of the PSVT type is in the direction of the connection side.
- Flat-sided plenum boxes are available on request.

Selection details

PSVTOR 160 panel size 600 x 300

air volume		1-sided (spreading)		
m ³ /s	m ³ /h	throw m	Δp_s Pa	L _{pA} dB(A)
0.025	90	0.8	2	6
0.030	108	1.0	2	11
0.040	144	1.3	4	19
0.050	180	1.6	7	24
0.060	216	2.0	10	29



1-sided spreading

Return

When used as a return diffuser, see page 34:

PRVT 125: see selection details PRVDOR 250.

PRVT 160: see selection details PRVDOR 300.

Attenuation values plenum box

model	attenuation values						Hz
	125	250	500	1k	2k	4k	
125	3	1	6	7	7	9	dB
160	4	0	5	8	7	8	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.

PTVTOR 160 panel size 600 x 300

air volume		4-sided			3-sided 2K+ 1L			3-sided 1K+ 2L			2-sided 1K+ 1L		
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)
0.030	108	0.6	3	-	0.7	4	10	0.6	3	-	0.9	4	10
0.040	144	0.7	6	16	1.0	7	19	0.8	6	17	1.2	7	19
0.050	180	0.9	9	23	1.2	11	26	1.0	10	24	1.4	12	26
0.060	216	1.1	13	28	1.4	16	31	1.2	14	29	1.7	17	31
0.080	288	1.5	23	37	1.9	29	40	1.7	25	38	2.3	29	40
0.100	360	1.8	36	44	2.4	45	47	2.1	39	45	2.9	46	47

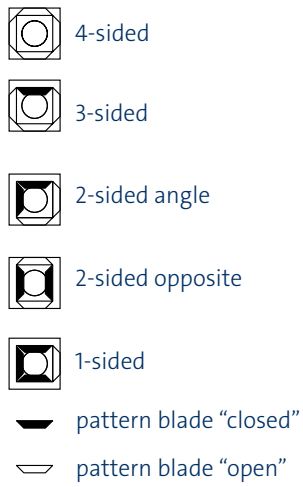
air volume		2-sided 2L			2-sided 2K			1-sided 1L			1-sided 1K		
m ³ /s	m ³ /h	throw m	Δp_s Pa	L _{pA} dB(A)	throw m	Δp_s Pa	L _{pA} dB(A)	throw m	Δp_s Pa	L _{pA} dB(A)	throw m	Δp_s Pa	L _{pA} dB(A)
0.020	72	0.5	3	-	0.6	2	-	0.8	2	-	1.1	7	24
0.025	90	0.7	5	-	0.7	3	-	1.0	3	-	1.4	11	30
0.030	108	0.8	7	15	0.8	5	13	1.2	5	13	1.7	16	35
0.040	144	1.0	11	24	1.1	9	22	1.6	9	22	2.2	28	42
0.050	180	1.4	19	31	1.4	13	29	2.0	13	29	2.8	44	48
0.060	216	1.7	30	36	1.7	19	34	2.3	20	34			
0.080	288	2.1	47	46	2.2	34	43	3.1	36	43			

PTVTOR 125 panel size 300 x 300

air volume		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	0.4	1	-	0.4	1	-	0.6	2	3	0.6	3	5	0.9	7	13
0.020	72	0.6	1	5	0.6	2	7	0.7	4	10	0.7	4	12	1.2	12	21
0.025	90	0.7	2	11	0.7	3	13	0.9	5	16	0.9	7	18	1.5	19	27
0.030	108	0.8	3	16	0.9	4	18	1.1	8	21	1.1	10	23	2	28	31
0.040	144	1.1	4	23	1.2	6	25	1.5	13	28	1.5	17	29	2.5	49	39
0.050	180	1.4	6	29	1.5	10	31	1.9	20	34	1.9	25	34			
0.060	216	1.7	8	34	1.9	13	36	2.2	28	39	2.2	35	41			

Outflow pattern

PTVTOR 125



PTVTOR 160

