

PRVD

- ▶ Perforated diffuser
- ▶ Return

Design:

Perforated diffuser

flange: extruded aluminium
 face plate: steel
 finish: epoxy powder
 colour: white RAL 9010

Plenum box

material: steel
 galvanised sendzimir
 lining: 1/2 duct liner
 finish: none

Damper

material: steel
 galvanised sendzimir
 finish: none

Available types:

P R - D - -

P perforated ceiling diffuser
R return

- **face plate**
- V** flat
- D** dropped 13 mm

D flange

- **accessories**
- O** none
- V** damper

- available as options

- A** round top connection
- Z** square top connection
- R** lined plenum box (assembled)
- U** un-lined plenum box (assembled)

Application:

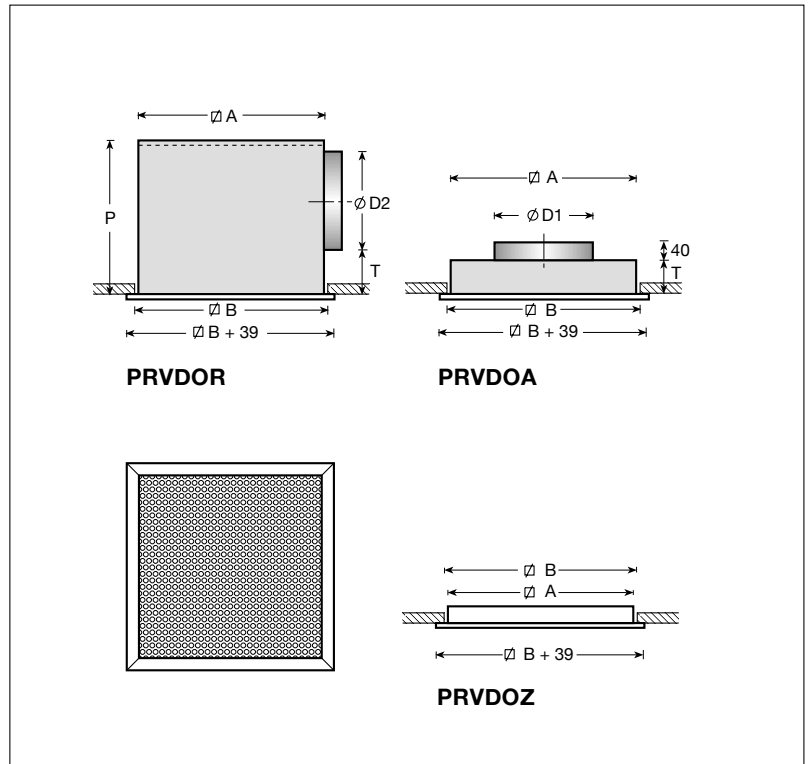
The perforated diffuser type PRVD is suited for return air and its external appearance is the same as the PTVD supply diffuser.

The diffuser can be mounted in the ceiling and fitted with a (lined) plenum box which is delivered ready assembled.

Dimensional data:

Model	B	A	D1	D2	T	P
250	248	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	557	551	313	248	105	395

Dimensions:



Remarks:

The dimensions are given in mm.

Performance data:

PRVDOR and PRVDOA:

Air volume		round connection		
m ³ /s	m ³ /h	model	Ps	Lp
0,015	54	250	1	-
0,020	72	250	3	-
0,025	90	250	4	-
		300	1	-
0,030	108	250	6	-
		300	2	-
0,040	144	250	11	-
		300	4	-
		400	1	-
0,050	180	250	16	12
		300	6	-
		400	2	-
0,060	216	250	24	17
		300	9	-
		400	3	-
		500	3	-
0,080	288	300	15	13
		400	6	-
		500	5	-
		550	3	-
0,100	360	300	24	19
		400	9	-
		500	8	-
		550	4	-
0,125	450	400	14	15
		500	12	15
		550	6	-
0,150	540	400	21	20
		500	18	20
		550	9	10
0,200	720	500	31	27
		550	16	17
0,250	900	550	25	23
0,300	1080	550	35	28

PRVDOZ:

Air volume		square		
m ³ /s	m ³ /h	model	Ps	Lp
0,080	288	250	9	10
		300	3	-
0,100	360	250	13	15
		300	5	-
		400	2	-
0,125	450	250	21	21
		300	8	11
		400	3	-
0,150	540	250	30	25
		300	11	15
		400	4	-
		500	2	-
0,200	720	250	54	32
		300	20	22
		400	8	13
		500	3	-
		550	2	-
0,300	1080	300	45	32
		400	18	23
		500	7	14
		550	3	-
0,400	1440	300	79	39
		400	32	30
		500	13	21
		550	6	14
0,500	1800	400	49	35
		500	20	26
		550	10	19
0,600	2160	400	71	39
		500	29	31
		550	14	23
0,800	2880	500	51	37
		550	24	30
1,000	3600	550	38	36

General:

The pressure drop applies to fully opened damper.

- static pressure drop Ps in Pa.

The assumed room absorption is 10 dB.

- sound pressure Lp in dB(A).

Intermediate values may be interpolated.

Plenum box sound dampering:

Model	Middle frequency bands					
	125	250	500	1K	2K	4K
250	5	0	3	10	5	11
300	3	1	6	7	7	9
400	2	2	9	7	7	9
500	2	4	9	7	7	10
550	0	6	7	7	6	9