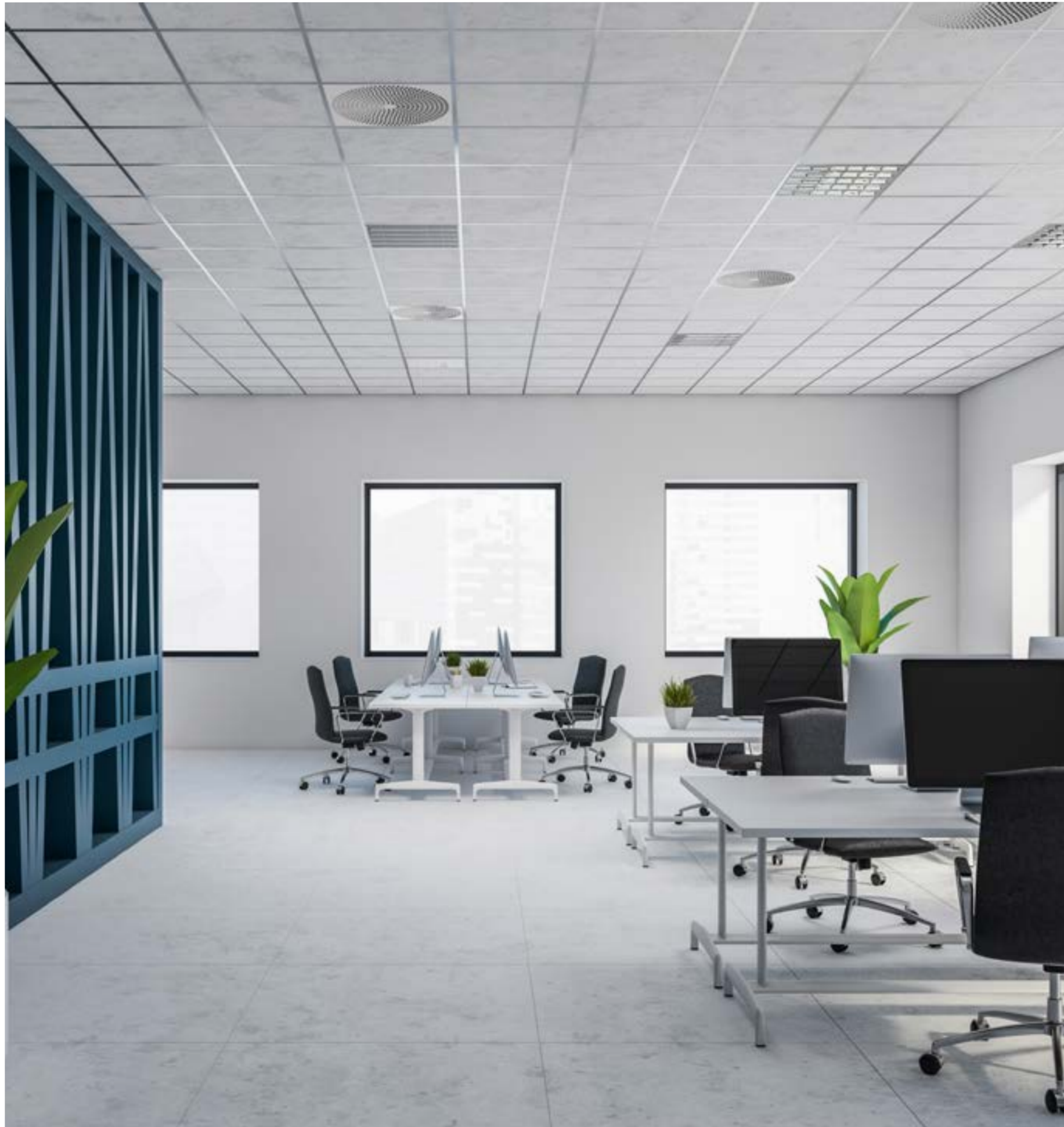




Product manual

Modular plenum boxes

PBS / PBV

Air distribution

Version 1.0.1
Date: 29.11.2024.



-  PLENUM BOXES
-  DIFFUSERS
-  ORDERING KEY

-  SOLVEAIR
-  DIAGRAM



PLENUM BOXES

AIR DISTRIBUTION

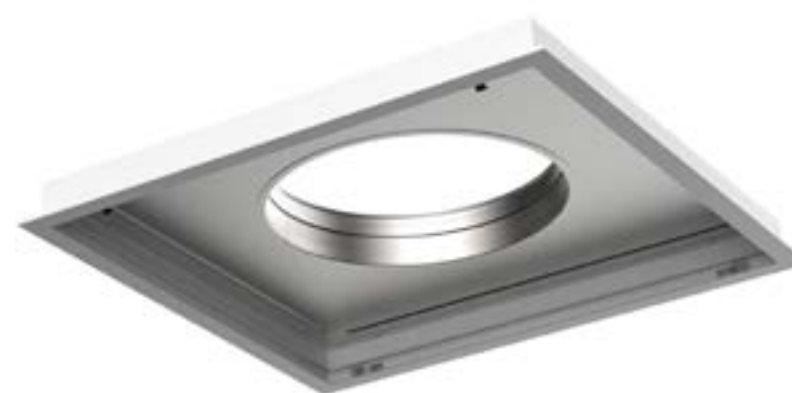
TESTS AND CERTIFICATES

All our products are submitted to a number of tests by official test institutes.

For more information about certificates, visit our website:

<https://www.klimaoprema.com/en/gpr/hvac/air-distribution/diffusers/15>





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PLENUM BOXES

AIR DISTRIBUTION

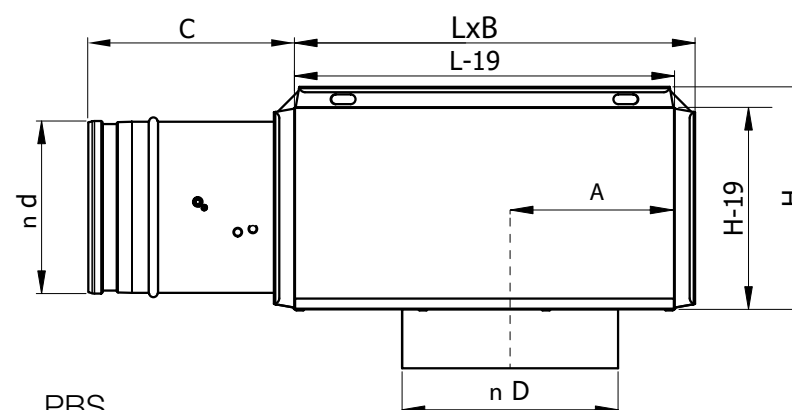
PBS

Plenum box design used with suspended ceiling systems. It is equipped as standard with high efficiency thermal/acoustic insulation and a quick commissioning kit for regulation of the airflow.

Two spigot connections for connection to the duct and PBV plenum box. Duct spigot connection is equipped with EPDM rubber seal.

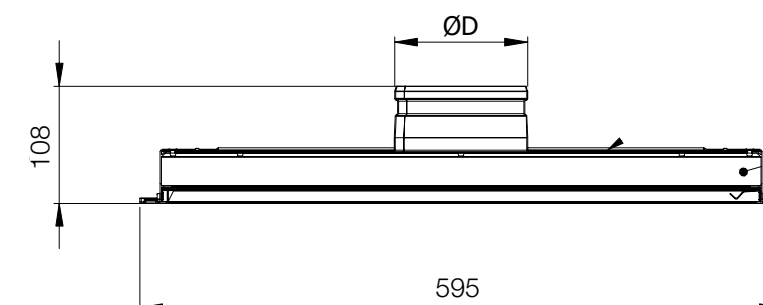
PBV

Slim plenum box for flush mounting with easily removable diffuser plates. Variable diffuser plate models are available. Diffuser plate is fixed with "click-in" system and secured with connecting cord. It is connected to the PBS box with spigot connection. Plenum box is always in 595x595 dimension, different sizes of the diffuser patterns are possible. Connection spigot is equipped with EPDM rubber seal.



PBS

Model	d	D	L x B	H	A	C
100/125	98	125	315x220	195	125	133
125/160	123	160	350x255	215	140	158
160/200	158	200	390x330	250	165	198
200/250	198	250	440x370	290	195	233
250/315	248	315	505x380	340	230	383
315/400	313	400	590x490	405	260	448



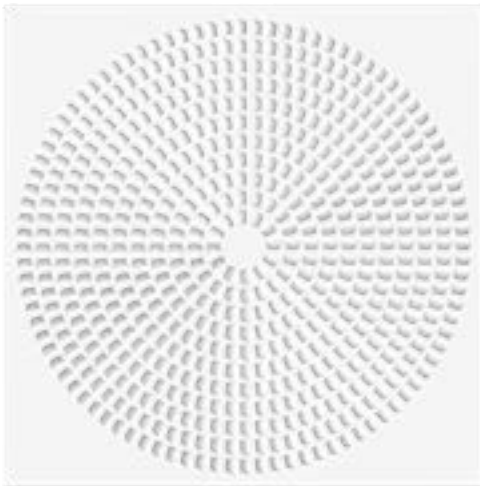
PBV

Model	Diameter [mm]	D [mm]
PBV 125	125	123
PBV 160	160	158
PBV 200	200	198
PBV 250	250	248
PBV 315	315	313
PBV 400	400	398

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DOR



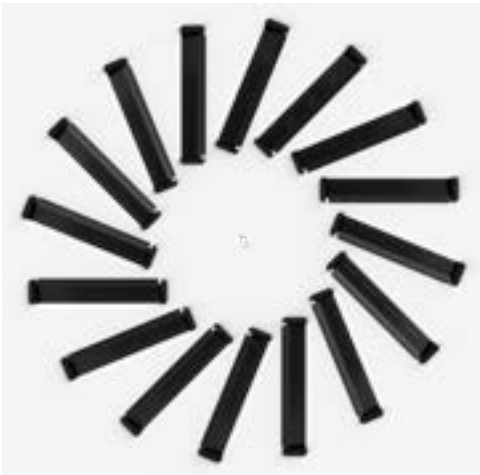
DOS



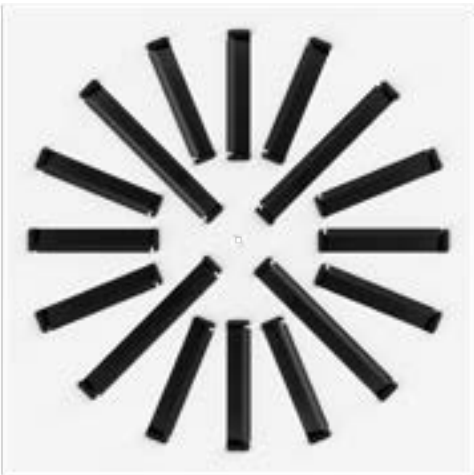
DFW



DVF



DEV



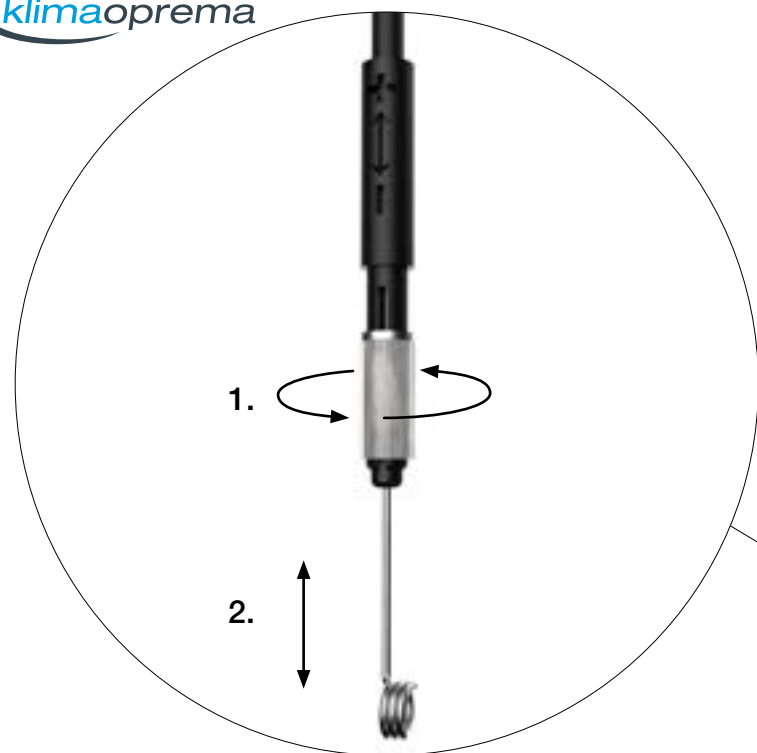
DEK



DVS

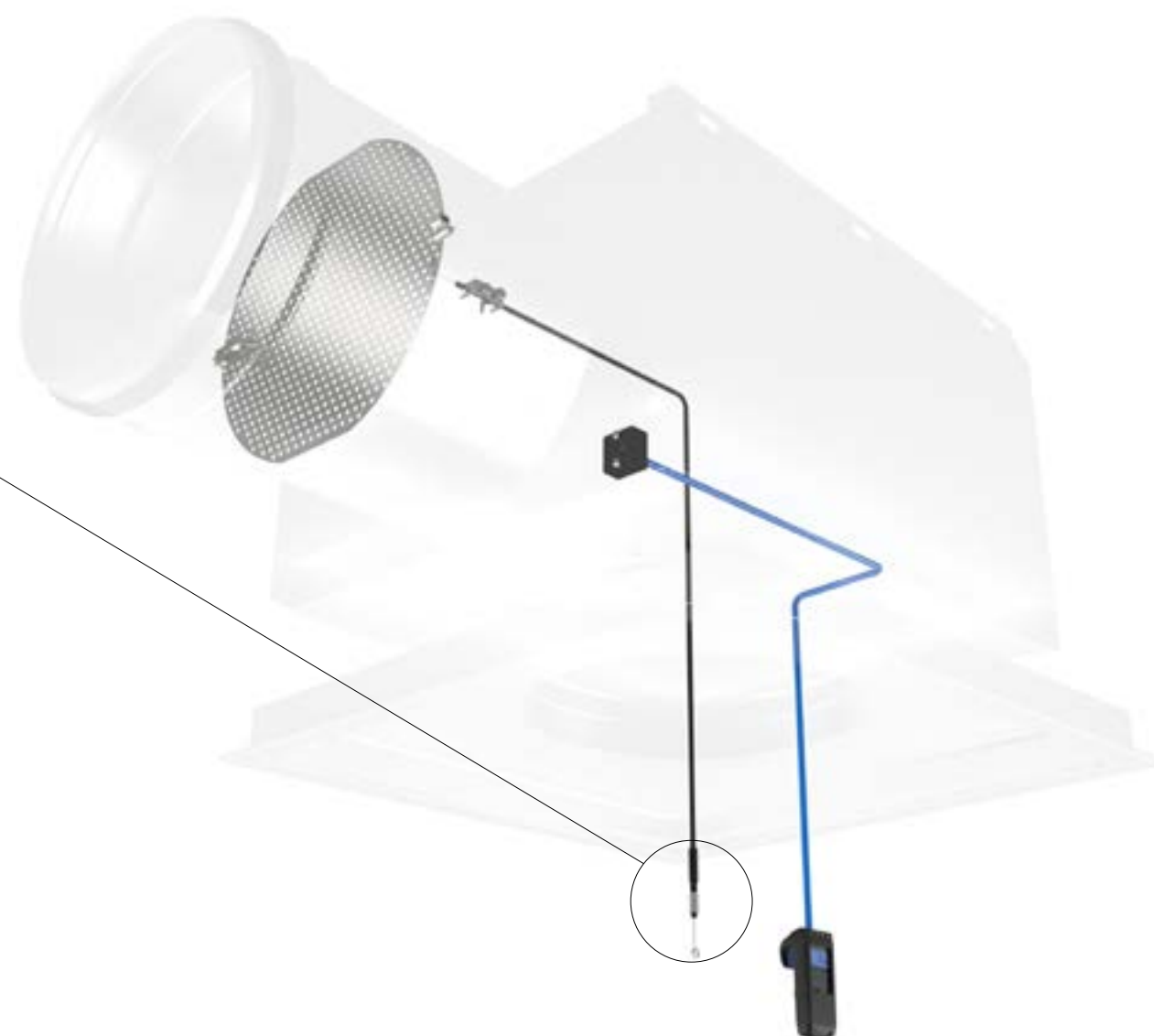
 Diffuser PLATES

Patern size (Øa)	300	400	500	600
DFW	X	X	X	X
DVF	X	X	X	X
DVS		X	X	X
DEV	X	X	X	X
DEK	X	X	X	X
DOR		X	X	X
DOS		X	X	X



Damper regulation

1. Unscrew the metal part which will release the cable.
2. Regulate the damper by pushing the cable in or out.
3. Secure the position by tightening the screw from step 1.



Differential pressure meter

$$q = K \cdot \sqrt{P}$$

$$P = \left(\frac{q}{K}\right)^2$$



AIRFLOW REGULATION

q = measured airflow l/s
 p = current pressure reading (Pa)
 k = commissioning factor

K factor

PBS	Patern size	DOR	DOS-QQ	DOS-QR	DFW	DVF	DEV	No. of discharge elements	DEK	No. of discharge elements	DIP-Q	DVS
100-125	300	9.4	7.7	8.2	-	25.18	23	8	23	8	-	26.5
125-160	400	14.7	10.4	11.3	-	29.93	29	16	29	16	-	31.5
160-200	500	21.2	15.6	17	-	43.70	40	16	40	16	-	46
200-250	500	27.3	18.8	20.4	-	59.85	53	24	53	24	-	63
250-315	600	40.1	27.4	27.9	-	79.80	62	24	62	24	118	84
315-400	600	45.7	30.2	31.7	-	89.44	72	48	72	48	-	94.15

Ordering keys



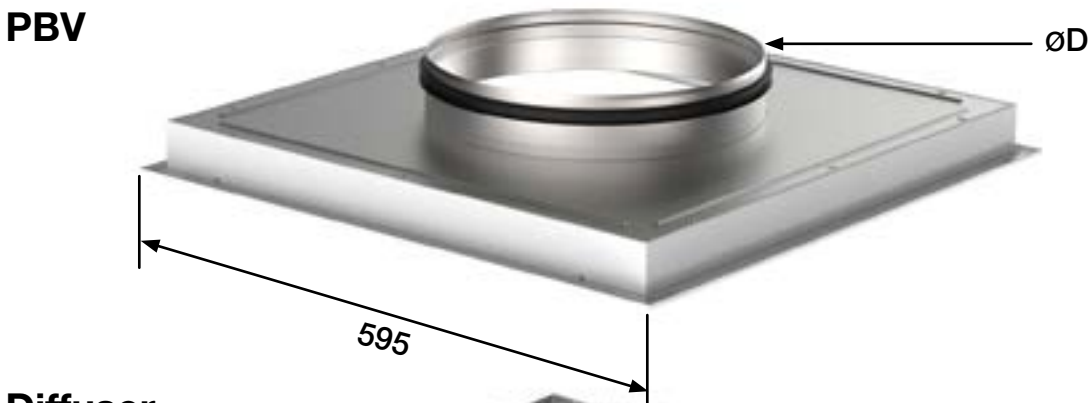
- ▼ PLENUM BOXES
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(1) Plenum box	(2) Size	(3) Connection diameter
PBS	-	200 - 250

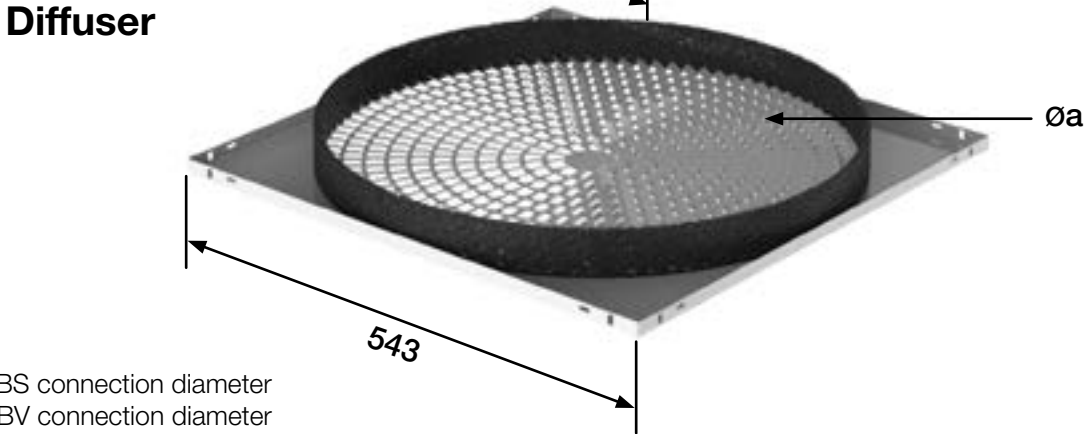
- (1) PBS - Plenum box
- (2) Size - 100, 125, 160, 200, 250, 315
- (3) Connection diameter 125, 160, 200, 250, 315, 400

ORDERING KEYS



(1) Plenum box	(2) Patern size	(3) Connetion diameter	(4) Diffuser plate	(5) Patern shape * only for DOS	(6) Discharge elements col- or * only for DEV/DEK/DEU	(7) RAL * optional
PBV	-	500 - 250	-	DEV	-	Q - W

- (1) PBV - Plenum box
- (2) Patern size - 300-600
- (3) Connection diameter 250
- (4) DOR ceiling swirl Diffuser
DOS-Q, DOS-R adjustable ceiling diffuser
DFW four way diffuser
DVF ceiling swirl Diffuser
DEV adjustable swirl diffuser
DEK adjustable swirl diffuser
DIP-Q perforated diffuser
DVS ceiling swirl Diffuser
- (5) Q- rectangular shape
R - rectangular shape
- (6) W - white discharge elements
- (7) RAL colors



Ød-2 PBS connection diameter
ØD+2 PBV connection diameter
Øa Patern size



AIR DISTRIBUTION

Projektiranje, proizvodnja i održavanje opreme za klimatizaciju, ventilaciju i čiste prostore.
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