

# VPE – Industrial inlet/outlet outlets



posink



lacquer

### Technical parameters

#### Version

Inlet/outlet outlets with adjustable sheets with 20 mm pitch.

#### Construction

Rectangular industrial outlets are made of steel sheet with optional light grey (RAL 7035) or white (RAL 9010, RAL 9016) coating. Grilles in copper and stainless steel AISI 304 and AISI 316 can be supplied on request.

#### Installation

of the basic series grilles is carried out by means of pipe fixing frames or on the wall. Installation height 2.5–3.5 m.

#### Mounting

Standard according to mounting springs. Optional grilles with pre-drilled screw holes, fixing with magnets or adjustable bolts. For installation in horizontal position, mounting with screws or adjustable clamps is required.

#### Accessories

Plenum boxes in galvanised steel, standard or insulated. Regulating flap R1 made of galvanised steel fitted with counter-rotating control leaves. Lateral frames made of galvanised steel sheet.

W×H [mm]	VPE-V-1.0 VPE-H-1.0	VPE-V-2.0 VPE-H-2.0	R1	PR	PBZ-V	PBZI-V	PBZ-H	PBZI-H
200×100	•	•	•	•	•	•	•	•
300×100	•	•	•	•	•	•	•	•
400×100	•	•	•	•	•	•	•	•
500×100	•	•	•	•	•	•	•	•
600×100	•	•	•	•	•	•	•	•
* 700×100	•	•	•	•	•	•	•	•
* 800×100	•	•	•	•	•	•	•	•
* 1000×100	•	•	•	•	•	•	•	•
200×150	•	•	•	•	•	•	•	•
300×150	•	•	•	•	•	•	•	•
400×150	•	•	•	•	•	•	•	•
500×150	•	•	•	•	•	•	•	•
600×150	•	•	•	•	•	•	•	•
* 700×150	•	•	•	•	•	•	•	•
* 800×150	•	•	•	•	•	•	•	•
* 1000×150	•	•	•	•	•	•	•	•
300×200	•	•	•	•	•	•	•	•
400×200	•	•	•	•	•	•	•	•
500×200	•	•	•	•	•	•	•	•
600×200	•	•	•	•	•	•	•	•
* 700×200	•	•	•	•	•	•	•	•
* 800×200	•	•	•	•	•	•	•	•
* 1000×200	•	•	•	•	•	•	•	•
400×300	•	•	•	•	•	•	•	•
500×300	•	•	•	•	•	•	•	•
600×300	•	•	•	•	•	•	•	•
* 700×300	•	•	•	•	•	•	•	•
* 800×300	•	•	•	•	•	•	•	•
* 1000×300	•	•	•	•	•	•	•	•
500×400	•	•	•	•	•	•	•	•
600×400	•	•	•	•	•	•	•	•
* 700×400	•	•	•	•	•	•	•	•
* 800×400	•	•	•	•	•	•	•	•
* 1000×400	•	•	•	•	•	•	•	•
600×500	•	•	•	•	•	•	•	•
* 800×500	•	•	•	•	•	•	•	•
* 1000×500	•	•	•	•	•	•	•	•

\* centre reinforcement, • types and dimensions supplied

#### Type keys for ordering

outlet

VPE-V-1.0-x 600x500 RAL9010

1 – V – vertical leaves, H – horizontal leaves  
2 – 1.0 – single row, 2.0 – double row  
3 – type of fastening

without indication = standard (springs),  
1 – screws, 2 – magnets, 3 – bolts

4 – dimensions (mm)

5 – colour

without indication – uncoloured,  
RAL 9010 or 7035

regulation\*

R1 600x300

1 – dimensions (W × H) (mm)

back frame\*

PR 600x300

1 – dimensions (W × H) (mm)

\* for mounting type 3 (bolt) the use of  
ground frame PRs and regulation R1s is  
required

plenum box

PBZ-V-600x300

1 – type  
PBZ – standard  
PBZI – with external insulation  
2 – connection  
V – vertical  
H – horizontal  
3 – dimensional range of boxes

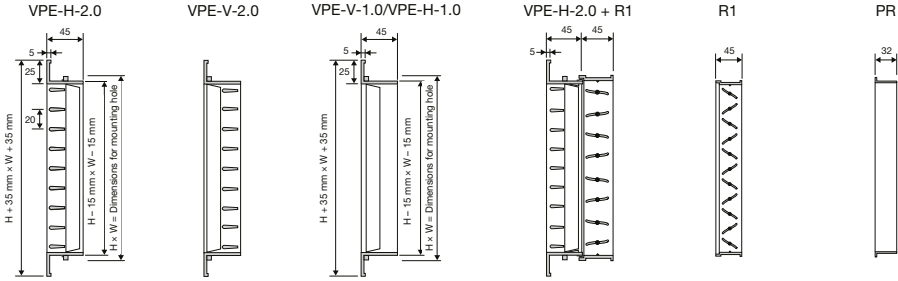
# VPE – Industrial inlet/outlet outlets

**Explanatory notes:**

- VPE-V-1.0 industrial single row vertical outlet (leaves)
- VPE-H-1.0 industrial single row horizontal outlet (leaves)
- VPE-V-2.0 industrial double row vertical outlet (front leaves vertical, rear horizontal)
- VPE-H-2.0 industrial double row horizontal outlet (front leaves horizontal, rear vertical)

**Accessories:**

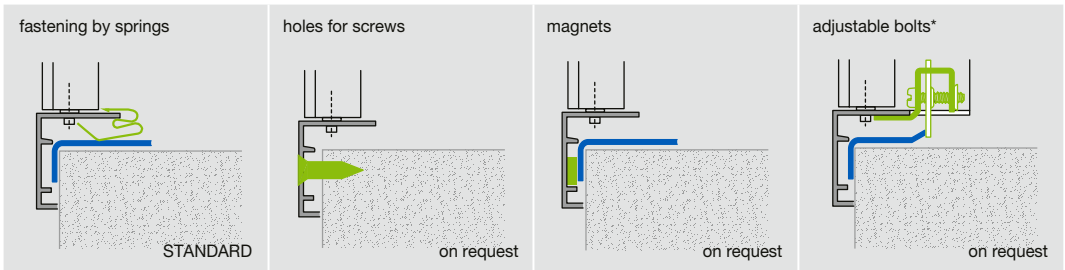
- R1 facade supply element R1
- PR back frame
- PBZ plenum box
- PBZI plenum box insulated



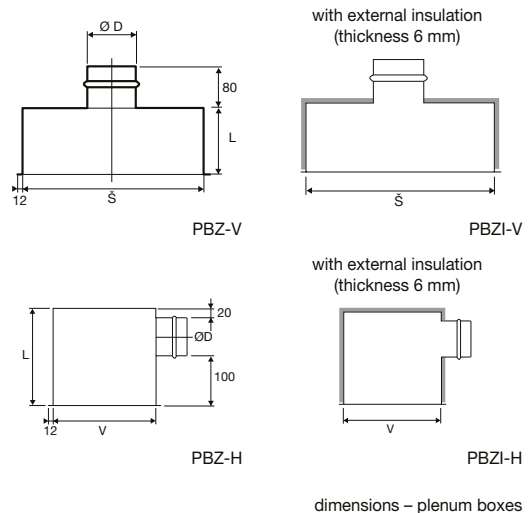
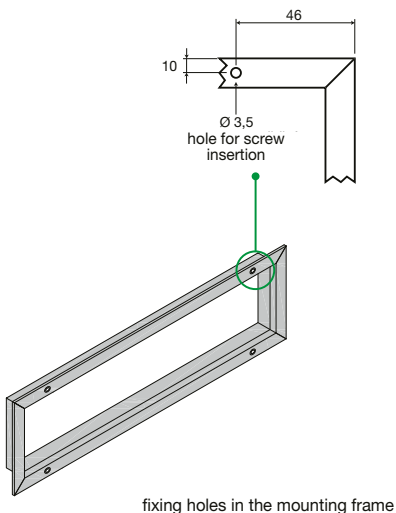
dimensions – outlets

**Additional illustration**

**installation method**

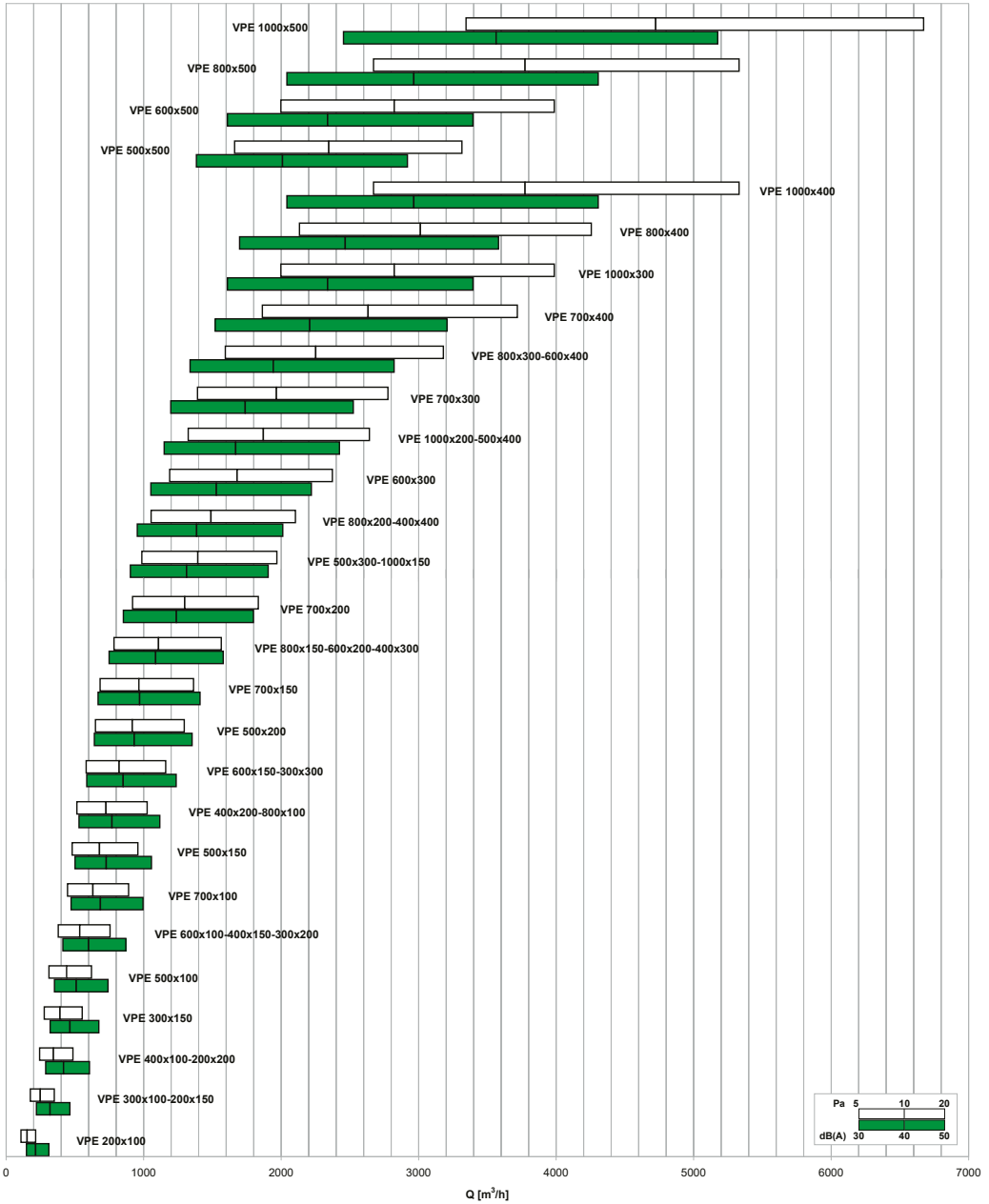


\* for this installation method it is necessary use the PRs back frame



# VPE – Industrial inlet/outlet outlets

Quick Design Table



7<sub>2</sub>

# VPE – Industrial inlet/outlet outlets

Type	$A_f$ [m <sup>2</sup> ]	Q [m <sup>3</sup> /h]		$L_{wa}$ [dB(A)]		$X_{0,25}$ [m]		$\Delta p_t$ [Pa]	
		min	max	min	max	min	max	min	max
VPE 200×100	0.0088	110	230	20	38	2.5	5.3	5	20
VPE 300×100/200×150	0.0144	180	370	22	40	3.3	6.7	5	20
VPE 400×100/200×200	0.0200	260	510	25	41	4.0	7.9	5	20
VPE 300×150	0.0228	290	580	25	42	4.2	8.4	5	20
VPE 500×100	0.0256	330	650	26	42	4.5	8.9	5	20
VPE 600×100/400×150/300×200	0.0311	400	790	26	43	4.9	9.7	5	20
VPE 700×100	0.0367	470	930	27	44	5.3	10.6	5	20
VPE 500×150	0.0395	500	1010	27	44	5.5	11.1	5	20
VPE 400×200/800×100	0.0423	540	1080	28	45	5.7	11.4	5	20
VPE 600×150/300×300	0.0479	610	1220	28	45	6.1	12.1	5	20
VPE 500×200	0.0534	680	1360	29	46	6.4	12.8	5	20
VPE 700×150	0.0562	720	1430	29	46	6.6	13.1	5	20
VPE 800×150/600×200/400×300	0.0646	820	1640	29	46	7.0	14.0	5	20
VPE 700×200	0.0757	960	1920	30	47	7.6	15.2	5	20
VPE 500×300/1000×150	0.0813	1040	2070	31	47	7.9	15.8	5	20
VPE 800×200/400×400	0.0869	1110	2210	31	48	8.2	16.3	5	20
VPE 600×300	0.0980	1250	2490	31	48	8.7	17.3	5	20
VPE 1000×200/500×400	0.1092	1390	2770	32	49	9.2	18.3	5	20
VPE 700×300	0.1147	1460	2910	32	49	9.4	18.7	5	20
VPE 800×300/600×400	0.1315	1670	3340	33	50	10.0	20.1	5	20
VPE 700×400	0.1537	1950	3900	33	50	10.8	21.7	5	20
VPE 1000×300	0.1649	2100	4180	34	51	11.3	22.4	5	20
VPE 800×400	0.1760	2240	4460	34	51	11.6	23.1	5	20
VPE 1000×400	0.2206	2800	5590	35	52	13.0	25.9	5	20
VPE 500×500	0.1370	1740	3480	33	50	10.2	20.5	5	20
VPE 600×500	0.1649	2100	4180	34	51	11.3	22.4	5	20
VPE 800×500	0.2206	2800	5590	35	52	13.0	25.9	5	20
VPE 1000×500	0.2764	3510	7000	36	53	14.5	29.0	5	20

**Explanatory notes:**

Q [m <sup>3</sup> /h]	air flow
$A_f$ [m <sup>2</sup> ]	free discharge area
$\Delta p_t$ [Pa]	total pressure drop
$L_{wa}$ [dB(A)]	free discharge area
$X_{0,25}$ [m]	air flow range for obtaining a comfortable air velocity in the residence zone under isothermal conditions of 0.25 m/s