

sizes	E	F	Z	X	D1
1x600	595	473	310	438	248
2x600	595	473	310	374	248
3x600	595	473	370	310	313
4x600	595	473	370	247	313
1x625	620	498	310	465	248
2x625	620	498	310	399	248
3x625	620	498	370	335	313
4x625	620	498	370	272	313
1x675	670	548	310	513	248
2x675	670	548	310	449	248
3x675	670	548	370	385	313
4x675	670	548	370	322	313

DESCRIPTION

ASPs are rectangle supply ceiling diffusers for low- and mid-pressure systems. They can be used for both air supply and exhaust systems. They are installed in rooms up to 4m high. They are adjusted to work with constant and variable airflow. The supplied air can be 10°C cooler than the temperature inside the room. Thanks to fixed blades, they can be used for horizontal air supply. It is recommended to install them horizontally in the ceiling.

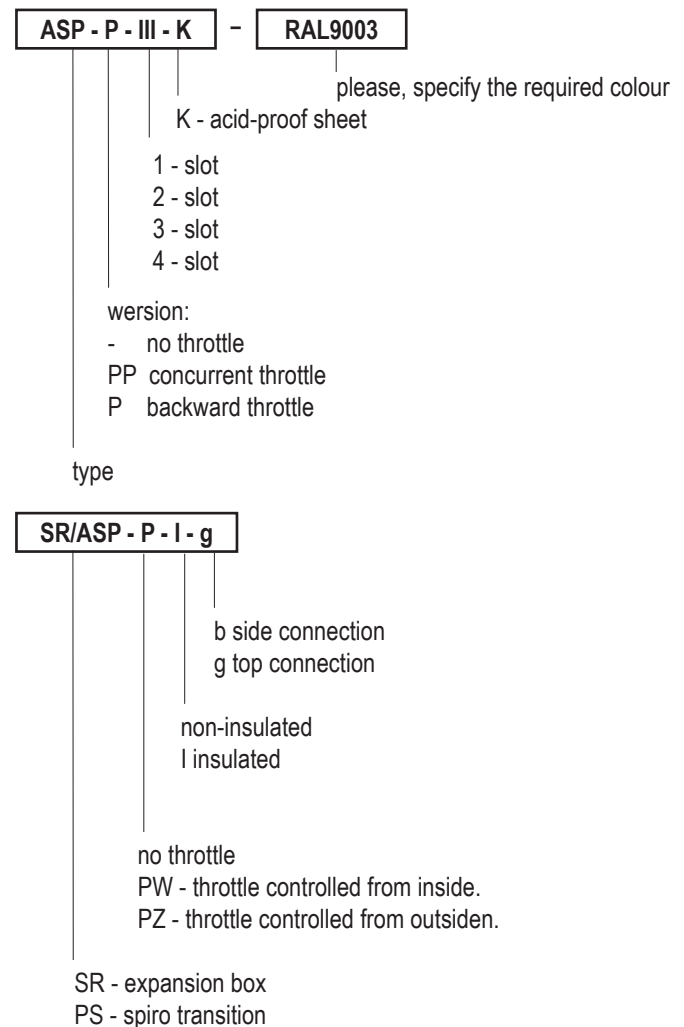
FEATURES

- ceiling diffusers are made of aluminium profiles, default colour: RAL 9003
- ASP-P ceiling diffusers are additionally equipped with a damper which allows for adjustment of air-flow efficiency
- damper lamels are made of aluminium-zinc coated profiled metal sheet
- 4 variants available
- available for set-up with a SR/ASP plenum box
- on special request, it can be manufactured in any size and RAL colour
- the ability to manufacture acid-proof sheet

TECHNICAL DESCRIPTION

The ASP air diffuser is made of aluminium blades and a steel front panel, all painted with white polyester paint (RAL 9010 by default). The air vent assures air-supply in four directions. The central cone and blades are fastened to an external frame, which makes them virtually invisible. The diffuser can be connected to a system of canals via an adjustment plenum box.

ORDER REFERENCE



2.2 ASP

ceiling diffusers with a full plate

2

RECOMMENDED SPEED

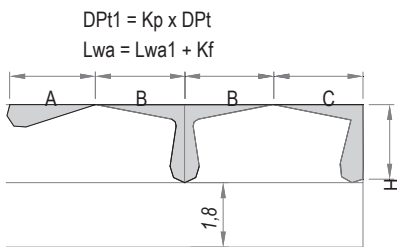
ASP	Vmin m/s	Vmax m/s
1 x 600 / 625 / 675	2,5	4,5
2 x 600 / 625 / 675	2,5	4,5
3 x 600 / 625 / 675	2,5	4,5
4 x 600 / 625 / 675	2,5	4,5

CONNECTION DIAMETER m²

ASP	Afree m ²	Qmin m ³ /h	Qmax m ³ /h
1x600	.0269	242	455
2x600	.0449	404	760
3x600	.0604	545	1020
4x600	.0732	658	1240

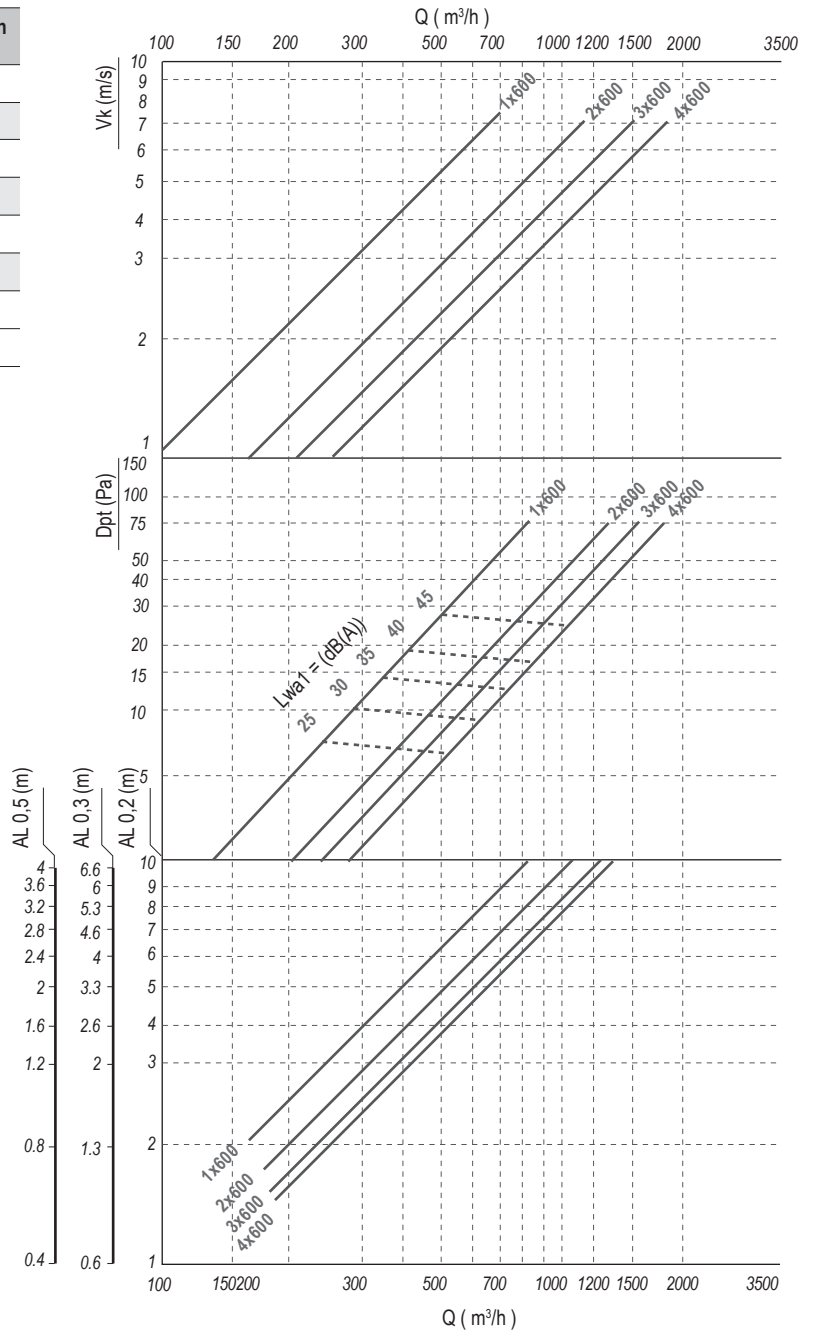
CORRECTION FACTOR FOR DPT AND LWA1

ASP		100% Open	50% Open	10% Open
1 x 600 / 625 / 675	Dpt (Kp)	1	1,82	4,55
	Lwa1 (Kf)	+0	+6	+15
2 x 600 / 625 / 675	Dpt (Kp)	1	4,38	7,5
	Lwa1 (Kf)	+0	+6	+15
3 x 600 / 625 / 675	Dpt (Kp)	1	4,17	8,33
	Lwa1 (Kf)	+0	+6	+16
4 x 600 / 625 / 675	Dpt (Kp)	1	3	18
	Lwa1 (Kf)	+0	+7	+16



$AL_{0,2} = A$
 $AL_{0,2} = B + H$
 $AL_{0,2} = C + H$

THE SPEED OF THE CONNECTION, PRESSURE LOSS



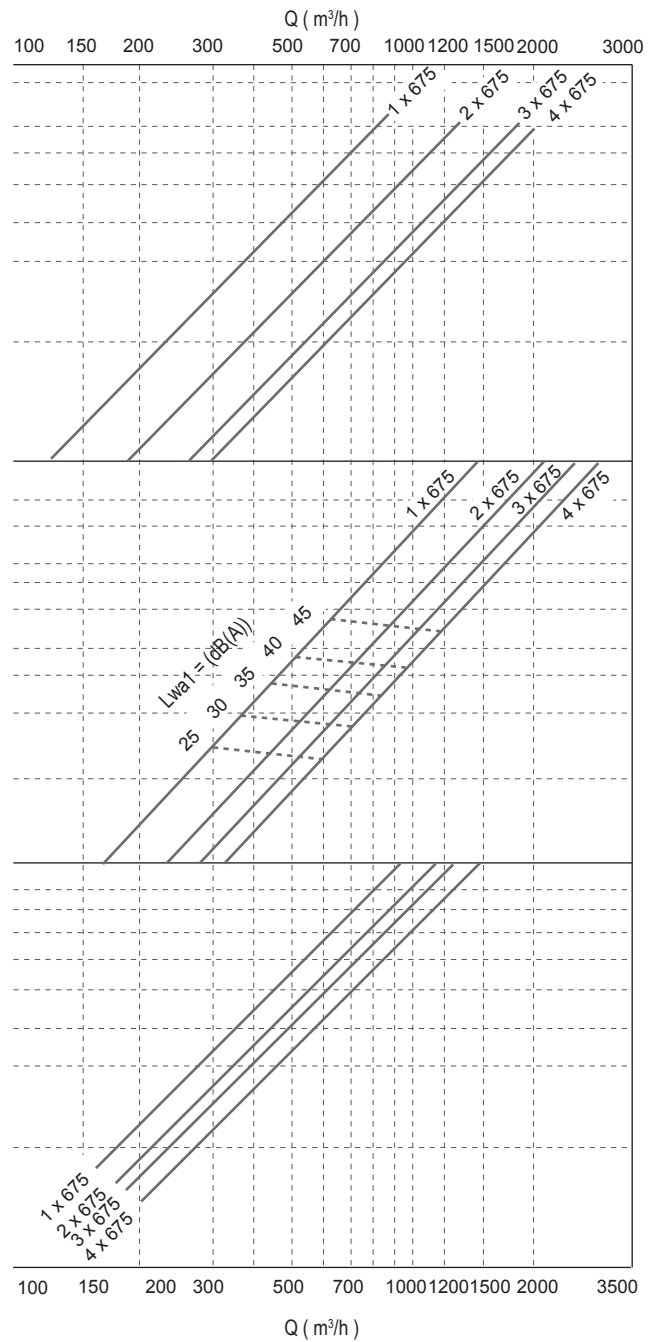
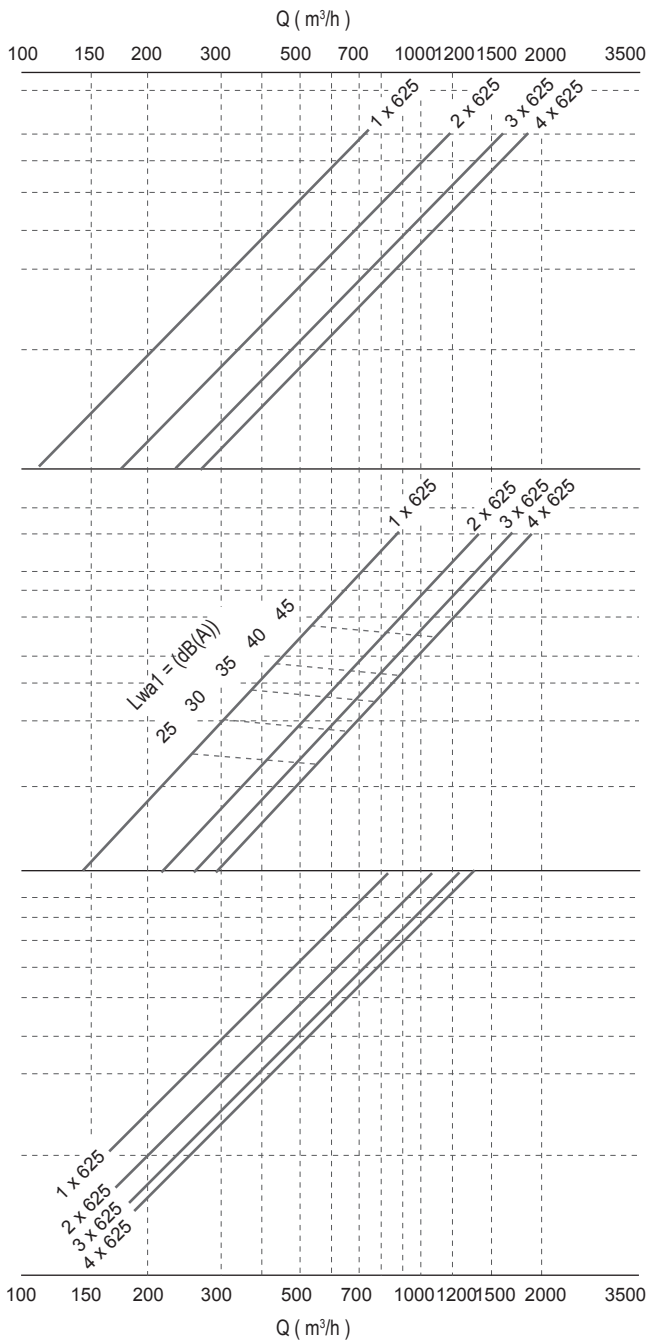
CONNECTION DIAMETER m²

ASP	Afree m ²	Qmin m ³ /h	Qmax m ³ /h
1x625	.0279	255	445
2x625	.0468	410	795
3x625	.0639	575	1080
4x625	.0762	685	1290

CONNECTION DIAMETER m²

ASP	Afree m ²	Qmin m ³ /h	Qmax m ³ /h
1x675	.0316	285	535
2x675	.0516	465	873
3x675	.0711	640	1200
4x675	.0857	770	1450

AND SOUND LEVEL, VENTILATION COANDY EFFECT. ASP + PLMONOTE:

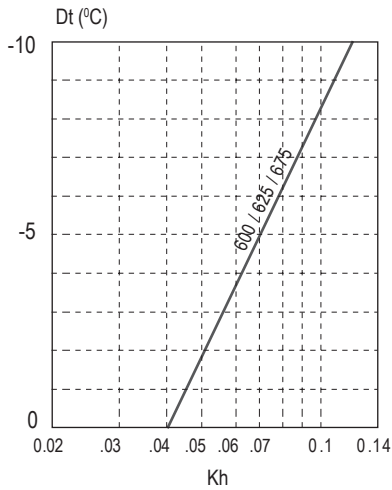


2.2 ASP

ceiling diffusers with a full plate

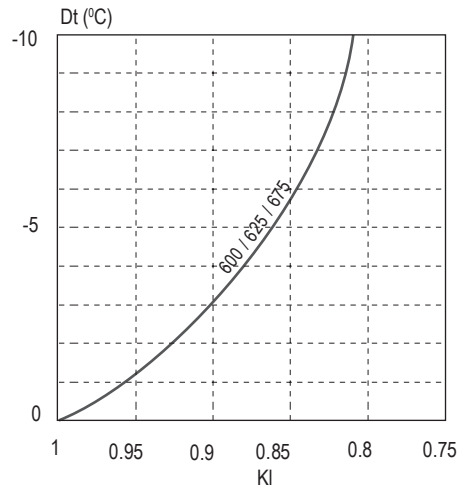
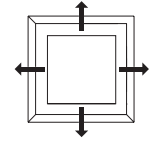
2

THE CORRECTION FACTOR FOR VERTICAL AIRFLOW (BV) ORAZ DT (-).

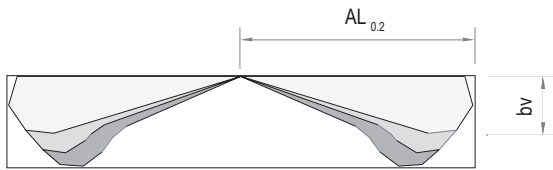


Kh = The correction factor for vertical airflow

THE CORRECTION FACTOR FOR DT(-). RANGE (L0.2) DT(-).



KI = The correction factor for the range

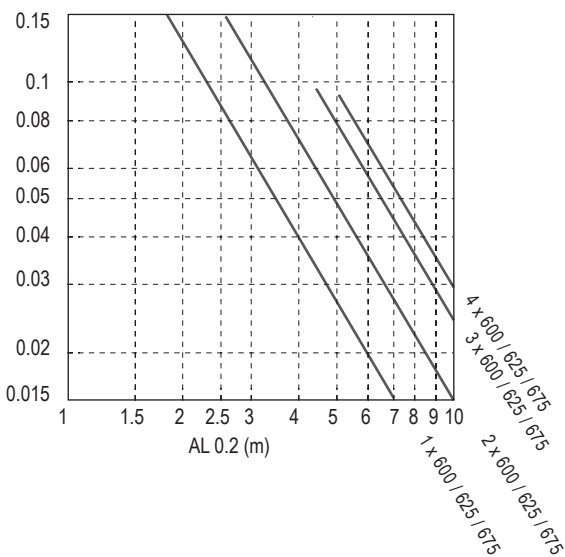


$$bv = Kh \times AL_{0.2}$$

$$AL'_{0.2} (Dt < 0) = KI \times AL_{0.2}$$

TEMPERATURE DISTRIBUTION

$$\frac{Dtl}{Dtz} = \frac{t_{room} - t_x}{t_{room} - t_{supply}}$$



INDUCTION FACTOR

$$i = \frac{Q_r}{Q_0} = \frac{Q_{whole\ in\ x}}{Q_{supply}}$$

