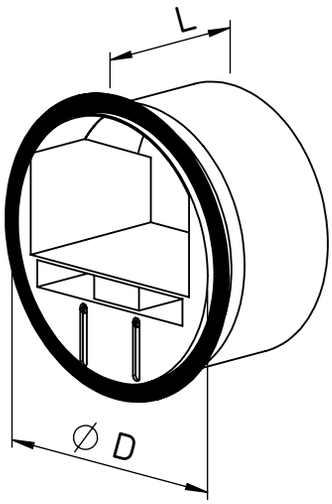
Volume flow stabiliser VKH
for round duct insertion

VKH

Dimensions VKH



Dim. in mm – see table

The automatic volume flow stabilisers VKH are a convincing and cost-effective solution for ensuring a constant volume flow.

Application

Automatic volume flow stabiliser for insertion into ventilation ducts, duct fittings, in duct sections and in air inlets and outlets. The VKH stabilise the specified nominal output in a differential pressure range from approx. 50–250 Pa.

Advantages

- ☐ There is no need for calibration and adjustment on site; thus rapid commissioning of the ventilation system.
- ☐ Security in planning and facilitation in design.
- ☐ Guaranteed constant volume flow, even with low counterpressure.
- ☐ Simple volume flow adjustment by moving the adjustment unit. This does not affect the functionality of other system inlets and outlets.
- ☐ Automatic compensation for pressure fluctuations.
- ☐ Installation within seconds.
- ☐ Made of flame retardant plastic, class B1, DIN 4102-1.

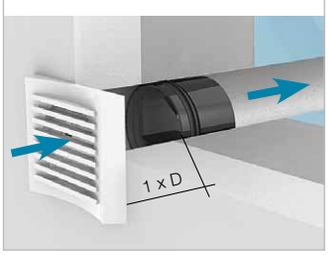
Function

- ☐ In case of increasing pressure, the flow velocity will increase. The pressure against the control shutter reduces the opening cross-section and thus maintains the volume flow.
- ☐ In case of minimal static pressure, the control shutter will open to the full opening cross-section.
- ☐ The guide cylinder ensures the even movement of the shutter and thus controls the ratio of pressure to volume flow.

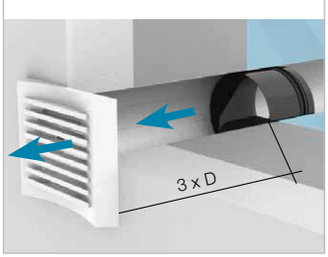
Installation

- ☐ Simple insertion into vertical or horizontal ducts with the matching standard diameter.
- ☐ The direction arrow for the flow direction must be observed.
- ☐ The precision fit and tightness to the inner duct circumference are ensured by the rubber seal ring.

Installation extract air Outlet = 1xD



Installation supply air Outlet = 3xD



Product range	Dimensions in mm			Volume flow range
Type	Ø duct ND	Ø D	L	m³/h
VKH 80	80	76	55	15-50
VKH 100	100	96	70	15-100
VKH 125	125	120	86	100-180
VKH 150-160	150 - 160	146	91	180-300
VKH 200	200	190	91	300-500
VKH 250	250	245	127	500-700

Selection table						
m³/h	**Ø 80**	**Ø 100**	**Ø 125**	**Ø 150 – 160**	**Ø 200**	**Ø 250**
15-50	**80/15-50**	**100/15-50**	**125/15-50**			
50-100		**100/50-100**	**125/50-100**	**150-160/50-100**		
100-180			**125/100-180**	**150-160/100-180**	**200/100-180**	
180-300				**150-160/180-300**	**200/180-300**	**250/180-300**
300-500					**200/300-500**	**250/300-500**
500-700						**250/500-700**

Design

Ø 80 mm duct ND

Ref. no.	Type	Volume flow*	Noise L_W in dB(A) at			
		m³/h	50 Pa	100 Pa	150 Pa	250 Pa
00001	**VKH 80/15-50**	15-50	25	29	32	35

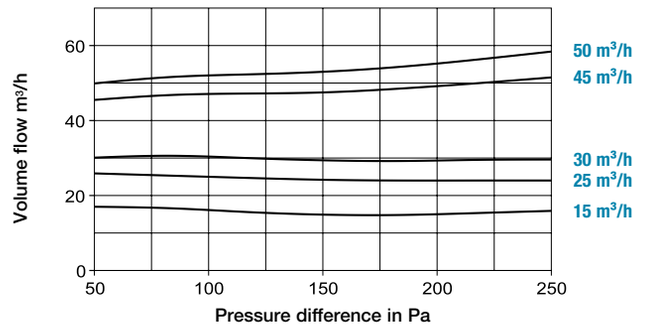
* Tolerance range (50-250 Pa) for nominal volume flow +/- 10%.

Ø 100 mm duct ND

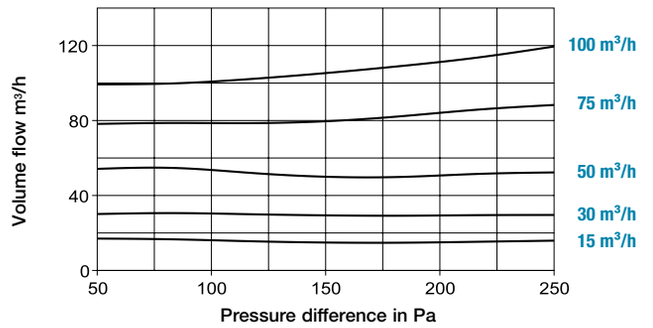
Ref. no.	Type	Volume flow*	Noise L_W in dB(A) at			
		m³/h	50 Pa	100 Pa	150 Pa	250 Pa
00002	**VKH 100/15-50**	15-50	25	29	32	35
00003	**VKH 100/50-100**	50-100	32	37	39	42

* Tolerance range (50-250 Pa) for nominal volume flow +/- 10%.

Performance curves VKH 80



Performance curves VKH 100



Ø 125 mm duct ND

Ref. no.	Type	Volume flow*	Noise L_W in dB(A) at			
		m³/h	50 Pa	100 Pa	150 Pa	250 Pa
00004	**VKH 125/15-50**	15-50	25	29	32	35
00005	**VKH 125/50-100**	50-100	32	37	39	42
00006	**VKH 125/100-180**	100-180	30	37	39	42

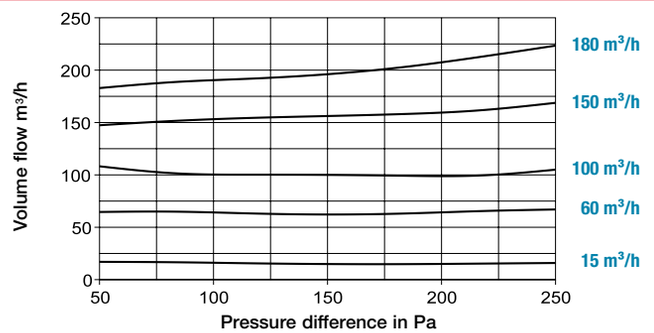
* Tolerance range (50-250 Pa) for nominal volume flow +/- 10%.

Ø 150-160 mm duct ND

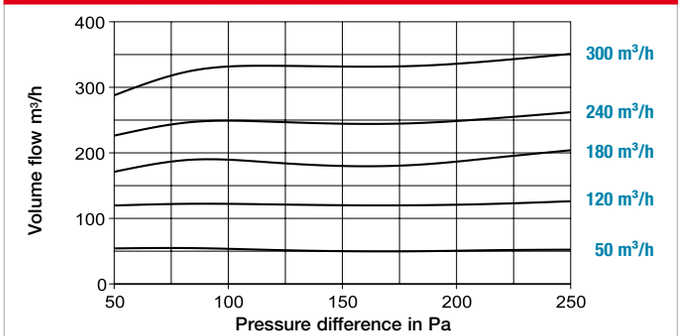
Ref. no.	Type	Volume flow*	Noise L_W in dB(A) at			
		m³/h	50 Pa	100 Pa	150 Pa	250 Pa
00007	**VKH 150-160/50-100**	50-100	32	37	39	42
00008	**VKH 150-160/100-180**	100-180	30	37	39	42
00009	**VKH 150-160/180-300**	180-300	34	40	42	44

* Tolerance range (50-250 Pa) for nominal volume flow +/- 10%.

Performance curves VKH 125



Performance curves VKH 150-160



Ø 200 mm duct ND

Ref. no.	Type	Volume flow*	Noise L_W in dB(A) at			
		m³/h	50 Pa	100 Pa	150 Pa	250 Pa
00010	**VKH 200/100-180**	100-180	30	37	39	42
00011	**VKH 200/180-300**	180-300	34	40	42	44
00012	**VKH 200/300-500**	300-500	35	40	44	47

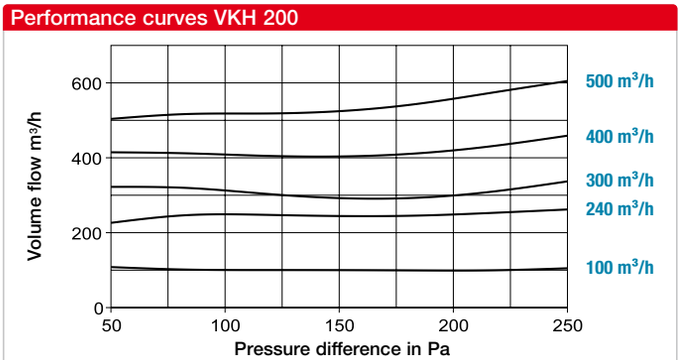
* Tolerance range (50-250 Pa) for nominal volume flow +/- 10%.

Ø 250 mm duct ND

Ref. no.	Type	Volume flow*	Noise L_W in dB(A) at			
		m³/h	50 Pa	100 Pa	150 Pa	250 Pa
00013	**VKH 250/180-300**	180-300	30	37	39	42
00014	**VKH 250/300-500**	300-500	35	40	44	47
00015	**VKH 250/500-700**	500-700	36	40	46	49

* Tolerance range (50-250 Pa) for nominal volume flow +/- 10%.

Performance curves VKH 200



Performance curves VKH 250