



Special characteristics

- Made of non-corrosive, weather proof, long life and ultra-violet stable polymers, colour light grey (VK 160 in white).
- Resists most harmful atmospheres.
- External building cladding stays clean longer as air flow channelled straight through the shutter.
- Easy and quick installation.
- Flat design.
- Attractive appearance.

Automatic

- Air stream operated louvres in a compact flat design to cover exhaust air openings in walls.
- Automatic operation; opens and closes when the fan is switched on and off.
- Fixed to wall by means of four concealed holes in corners.
- Supplied in individual boxes including mounting materials.
- Maximum air flow velocity = 8 m/s.
- Sizes 630 and 710 have an additional centre mullion to increase overall stability and sizes 800 and 900 have two mullions resulting in several louvre panels.

Manually adjustable

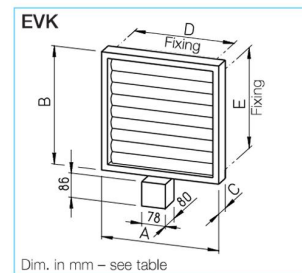
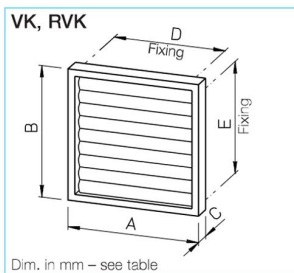
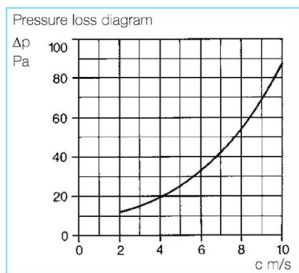
- To cover intake and exhaust air openings in external walls. Compact flat design. Suitable for reversible axial fans (intake and extract) as air flow in either direction is possible.
- Rattle-free and tight insulated, as the louvres are closed by spring force via mullions.
- Manual operation by means of pull cord via guide roller.
- Supplied with pull cord protection, guide roller, fixing hook and mounting materials.
- Frames, louvres with axis and adjusting parts made of UV resistant, impact resistant polymer in light grey.
- Up to nominal size 500 the louvre has one centre mullion. For larger sizes (see "custom sizes") the models have an additional centre mullion to increase overall stability and result in several louvre panels. Each part has a separate pull cord.

Electrically adjustable

- External shutters to cover intake and exhaust air openings.
- Automatic operation linked with fan controller. It can be wired so that the fan start is delayed until the shutter is fully opened.
- Control of fan and shutter via remote switch to be installed on site. The limit switch in servo motor connects the fan circuit when the shutter is fully opened. Max. current 1 A (ind.). With higher currents or 3 phase fans an auxiliary relay is required (contactor, Ref. no. 99611).
- If the fan is operated by a speed controller the shutter must be controlled via a relay installed on site.
- Ready for installation with a lead (5 x 1,5 mm², approx. 1,5 m long). Connection according to wiring diagram no. 39 and 73.
- Water proof motor housing, protected to IP 55, made of polymer; includes maintenance free gear box motor 230 V~, 50 Hz.
- Made of light grey polymer, rattle free operation and tight closing.

Pressure loss

When selecting a fan the pressure drop of all components of the system like ducting and shutters must be considered. The diagram shows the resistance subject to air velocity.



Model ranges

Automatic		Manually adjustable		Electric control		Fits fan nominal size mm	Dimensions				
Type	Ref. no.	Type	Ref. no.	Type	Ref. no.		A mm	B mm	C mm	D mm	E mm
VK 160 ¹⁾	0892	—	—	1)	1)	150/160	190	190	25	131	131
VK 200	0758	RVK 200	0766	EVK 200	0774	180/200	240	240	28	193	167
VK 250	0759	RVK 250	0767	EVK 250	0775	225/250	290	290	28	243	217
VK 315	0760	RVK 315	0768	EVK 315	0776	280/315	340	340	28	293	267
VK 355	0761	RVK 355	0769	EVK 355	0777	355	390	390	28	343	317
VK 400	0762	RVK 400	0770	EVK 400	0778	400	440	440	28	393	367
VK 450	0763	RVK 450	0771	EVK 450	0779	450	490	490	30	443	417
VK 500	0764	RVK 500	0772	EVK 500	0780	500	540	540	30	493	467
VK 630	0836			EVK 630	0781	560/630	686	690	40	520	630
VK 710	0838			EVK 710	0784	710	785	785	40	771	685
VK 800	0839					800	876	885	40	862	785
VK 900	0841					900	1026	985	40	1012	885

Larger sizes are available on request, also see custom models.

¹⁾ For specification, design and dimensions of smaller shutters see following page.

Accessories

Adapter F allows installation of these shutters (up to nominal diameter 710) on circular ducting. For selection and specification see page 496.



VK 100, 125, 160

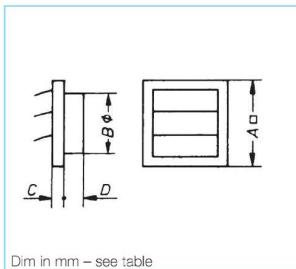


- **Small automatic shutters made of polymer for Ø 100, 125 and 160 mm**
Airstream operated louvers to cover exhaust air openings.
- Suitable as extract outlet of small fans, cooker hoods, tumble dryers and others.
- Made of UV-resistant and impact resistant polymer.
- Fixing via spigot or masonry plugs. Sealing foam strip included in contents.

■ Model range

Type	Ref. no.	Colour	Spigot Ø mm	Qty
VK 100	0757	white	100	1
VK 100 B	0765	brown	100	1
VK 100 VE*	0885	white	100	24
VK 125	0857	white	125	1
VK 160	0892	white	150/160	1

* low-cost bulk pack



Dim in mm – see table

Type	Dim. in mm			
	A	Ø B	C	D
VK 100	140	98	15	28
VK 125	160	120-125	20	30
VK 160	190	145	25	35

EVK 100, 150



- **Small electric shutter**
To cover intake and exhaust air openings in all types of rooms.
- Attractive design blends into any decor. The view into the duct is obscured even when the shutter is open.
- Maximum air flow velocity approx. 6 m/s.
- Noise free operation with a 60 second opening delay.
- Control via on/off switch, wired in parallel by preference.

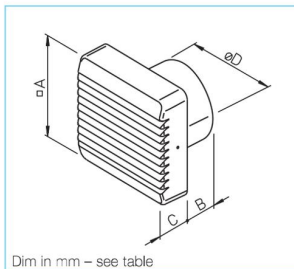
■ Model range

Type	Ref. no.	Spigot Ø mm	Weight kg
EVK 100	0453	100	0,26
EVK 150	0251	150	0,44

Break-proof polymer, alpine white.
Wiring diagram no. 479
Voltage/Frequency 230 V~, 50/60 Hz
Power consumption approx. 6 W

■ Note

Operating temp. EVK 100, EVK 150: 0 to +40 °C, for all other polymer backdraught shutters: -30 to +60 °C.



Dim in mm – see table

Type	Dim. in mm			
	□ A	B	C	Ø D
EVK 100	140	58	38,5	97
EVK 150	190	62	43	145

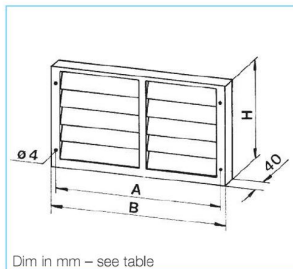
VK rectangular duct



- **Rectangular shutter**
In landscape format, to cover exhaust air openings in external walls.
- Dimensions fit Helios rectangular fan range.
- Automatic operation.
- All parts made of high quality, light grey polymer.
- Fixing via dowels.
- Maximum air flow velocity = 10 m/s.

■ Model range

Type	Ref. no.	Duct nominal size cm
VK 30/15	0735	30 x 15
VK 40/20	0874	40 x 20
VK 50/25	0875	50 x 25
VK 50/30	0876	50 x 30
VK 60/30	0877	60 x 30
VK 60/35	0878	60 x 35
VK 70/40	0879	70 x 40
VK 80/50	0880	80 x 50
VK 100/50	0881	100 x 50



Dim in mm – see table

Type	Dim. in mm			Weight kg
	A	B	H	
VK 30/15	381	395	235	1.0
VK 40/20	473	485	285	1.3
VK 50/25	574	585	335	2.0
VK 50/30	574	585	385	2.2
VK 60/30	674	685	385	2.4
VK 60/35	674	685	435	2.6
VK 70/40	774	785	485	3.1
VK 80/50	864	876	585	4.4
VK 100/50	1162	1176	585	5.5

Custom sizes



- **Custom sizes**
The shutter ranges – automatic (airstream operated) – manually adjustable – electrical control are available in project specific custom sizes.
- The dimensions can be varied within steps of 50 mm. Any rectangular portrait, landscape or square dimensions are available. The shutters are manufactured to order and are non-exchangeable or returnable. Therefore the dimensions must be defined accurately.
- For more stability, an additional vertical centre mullion is fitted over 40 cm louver length and a horizontal centre mullion over 100 cm louver length. Large shutters are supplied in segments for stability and transport reasons and have to be assembled on frames.
- The maximum air flow velocity for standard models is 10 m/s.
- All parts (frames, shutters and their stocks) made of light grey, high quality, UV resistant polymer.



- **Air tight in-duct backdraught shutter RVE**
In-duct mounted, ideal for retrofit installation.
- Polymer ring with surrounding double lip seal and tight adjacent rubber membrane, which opens at low and high pressure.
- Supplied with two membranes for air flow velocity up to approx. 3.5 m/s or 6 m/s.
- At horizontal air flow the rotation axis must be in vertical position.
- Temperature range -20 to +90 °C.

- **Backdraught shutters RSK**
Automatic shutters for in-duct installation.
- Prevents back draughts (extract of warm air or intake of cold air) when the fan is switched off.
- Automatic operation at low and high pressure (rotatable mounting position) through spring blades.
- At horizontal air flow the rotation axis must be in vertical position. If installed vertically it only operates with rising air flow. To cover further requests and severe conditions use RVS or RVM.

Automatic backdraught shutter with spring release
For all horizontal ducting and vertical with the air flow upwards i.e. blades opening upwards. Blades open in air flow direction automatically by the airflow (fan operation).
The spring mechanism is outside the air flow. Closing force, fan power and installation position can be adjusted. Blades and casing made of galvanised steel, at dia. 225 - 560 mm blades are made of aluminium. Flanged on both ends. Fixing holes DIN 24155, Pt. 2. Ambient temperature -30 to +100 °C

Motorised backdraught shutter¹⁾
As RVS, but with built-on spring release motor (outside the air flow), can be installed horizontally and vertically in any direction. Electrical control wired in parallel with the fan; for installation supplied with a 0,9 m long lead, closed when currentless.
Ambient temperature -30 to +60 °C
Protection to IP 54
Voltage/Frequency 230 V AC, 50/60 Hz
Power consumption 14 W
- to Ø 560 6,5 W
- from Ø 630 75 sec.
Opening time of flaps, approx. 380.1
Wiring diagram no.

Type	Ref. no.	Dim. in mm Ø D1 Ø D2 L	Wgt. kg
RVE 80	2584	75 83 20	0,1
RVE 100	2587	95 103 20	0,1
RVE 125	2588	120 128 20	0,1
RVE 160	2589	155 163 20	0,2
RVE 200	2618	195 203 20	0,2

Type	Ref. no.	Dim. in mm Ø D L S	Wgt. kg
RSKK 100*	5106	97 57 2,0	0,1
RSKK 125*	5107	121 57 2,0	0,1
RSK 150	5073	149 100 1,25	0,5
RSK 160	5669	159 100 1,25	0,5
RSK 180	5662	170 70 0,5	0,3
RSK 200	5074	199 140 1,25	1,0
RSK 250	5673	248,5 140 1,25	1,2
RSK 315	5674	312,5 140 1,25	1,5
RSK 355	5650	352 160 0,75	1,3
RSK 400	5651	397 160 0,75	1,4

* made of polymer (temp. max. +70 °C). Remaining models made of galvanised steel, flaps made of aluminium and springs made of stainless steel.

Automatic		Motorised ¹⁾		Dim. in mm							Weight
Type	Ref. no.	Type	Ref. no.	Ø D i.L.	A	B	C	L	Ø LK	kg	
RVS 225	2591	RVM 225	2575	225	-	95	130	300	259	3,3	
RVS 250	2592	RVM 250	2576	250	-	95	130	300	286	3,7	
RVS 280	2593	RVM 280	2577	280	-	95	130	300	322	4,2	
RVS 315	2594	RVM 315	2578	315	-	95	130	300	356	4,6	
RVS 355	2595	RVM 355	2579	355	-	95	130	300	395	5,3	
RVS 400	2596	RVM 400	2580	400	-	95	130	330	438	7,5	
RVS 450	2597	RVM 450	2581	454	15	95	130	330	487	10,7	
RVS 500	2598	RVM 500	2582	504	40	95	130	330	541	12,0	
RVS 560	2599	RVM 560	2583	560	65	95	130	330	605	16,4	
RVS 630	2600	RVM 630	2609	630	115	150	225	400	674	21,0	
RVS 710	2601	RVM 710	2610	710	155	150	225	400	751	28,0	
RVS 800	2602	RVM 800	2614	800	200	150	225	420	837	37,8	
RVS 900	2603	RVM 900	2615	900	250	150	225	420	934	42,3	
RVS 1000	2604	RVM 1000*	2616	1000	300	150	225	420	1043	47,8	

¹⁾ Typen RVM not suitable for explosion proof areas.

* RVM 1000 only for horizontal through flow.

