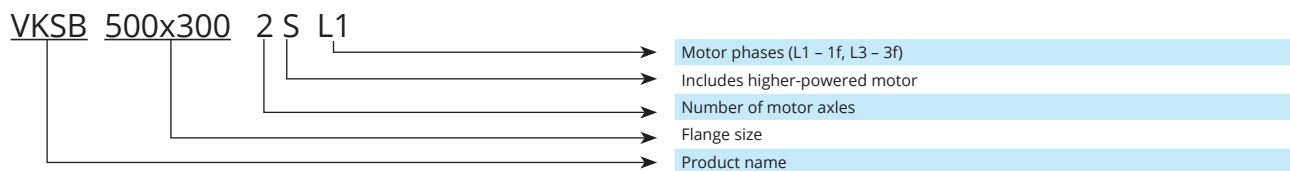


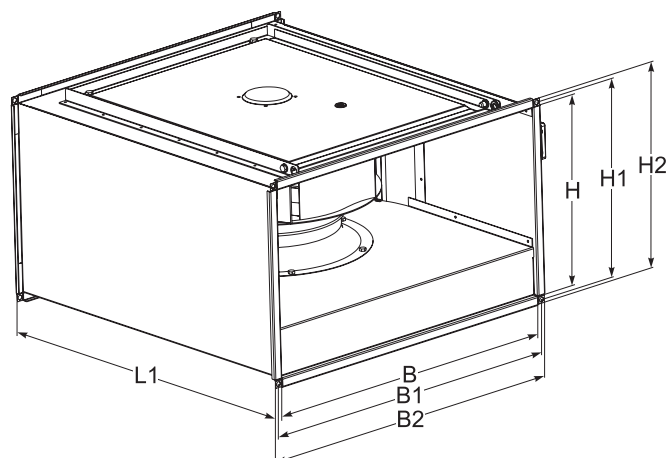


<b>Features</b>	<ul style="list-style-type: none"> <li>› 300x150 mm to 1000x500 mm flanges;</li> <li>› Airflow up to 9490 m<sup>3</sup>/h;</li> <li>› Can be mounted on floors, walls or ceilings;</li> <li>› Backward-curved impeller from plastic or galvanized steel;</li> <li>› Cost-effective.</li> </ul>
<b>Power supply</b>	230V/50Hz/1f or 400V/50Hz/3f.
<b>Temperature range</b>	From -25/-30°C up to 40/70°C, depending on unit size.
<b>Sizes</b>	300x150, 400x200, 500x250, 500x300, 600x300, 600x350, 700x400, 800x500 and 1000x500.
<b>Construction</b>	<ul style="list-style-type: none"> <li>› Casing: galvanized sheet steel;</li> <li>› Fan: centrifugal impeller and external rotor motor;</li> <li>› Motor protection with built-in thermal-contact;</li> <li>› Motor protection class: IP44/IP54 depending on the unit;</li> <li>› Terminal box protection class: IP55.</li> </ul>
<b>Installation</b>	<ul style="list-style-type: none"> <li>› Device can only be used indoors.</li> <li>› Not suitable for polluted air or volatile and explosive gases.</li> </ul>
<b>Speed control options</b>	<ul style="list-style-type: none"> <li>› Electronic voltage controller (phase cut).</li> <li>› Voltage controlled speed controller.</li> </ul>



## Accessories

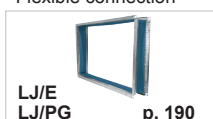
<p>Single phase speed controller</p> <p><b>TGRV</b> p. 127</p>	<p>Three phase speed controller</p> <p><b>TGRT</b> p. 127</p>	<p>Single phase speed controller</p> <p><b>ETY/MTY</b> p. 128</p>	<p>Rectangular duct silencer</p> <p><b>SKS</b> p. 173</p>	<p>Filter cassette</p> <p><b>FDS</b> p. 166</p>	<p>Electrical duct heater</p> <p><b>EKS</b> p. 142</p>
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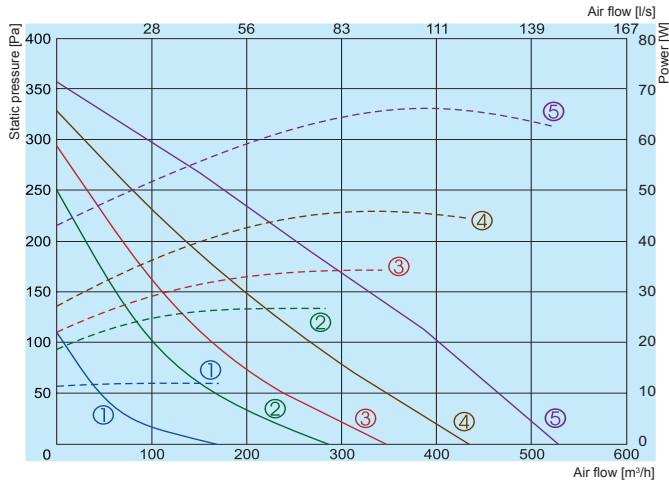
Type	Dimensions [mm]						
	B	B1	B2	H	H1	H2	L1
VKSB 300x150	300	320	340	150	170	190	400
VKSB 500x300	500	520	540	300	320	340	560
VKSB 600x300	600	620	640	300	320	340	640
VKSB 600x350	600	620	640	350	370	390	700
VKSB 700x400	700	720	740	400	420	440	780
VKSB 800x500	800	820	840	500	520	540	880
VKSB 1000x500	1000	1020	1040	500	520	540	980

Type	Accessories							
	TGRV	TGRT	ETY/MTY	LJ/E	LJ/PG	SKS	FDS	EKS
VKSB 300x150-2 L1	1,5	-	1,5	30x15	30x15	30-15	30-15	300x150
VKSB 500x300-2 L1	1,5	-	1,5	50x30	50x30	50-30	50-30	500x300
VKSB 500x300-2S L1	3	-	2,5	50x30	50x30	50-30	50-30	500x300
VKSB 500x300-4 L3	-	1	-	50x30	50x30	50-30	50-30	500x300
VKSB 600x300-4 L1	2	-	2,5	60x30	60x30	60-30	60-30	600x300
VKSB 600x300-4 L3	-	1	-	60x30	60x30	60-30	60-30	600x300
VKSB 600x350-4 L1	3	-	2,5	60x35	60x35	60-35	60-35	600x350
VKSB 600x350-4 L3	-	1	-	60x35	60x35	60-35	60-35	600x350
VKSB 700x400-4-L1	5	-	4	70x40	70x40	70-40	70-40	700x400
VKSB 700x400-4-L3	-	2	-	70x40	70x40	70-40	70-40	700x400
VKSB 800x500-4 L1	5	-	4	80x50	80x50	80-50	80-50	800x500
VKSB 800x500-4 L3	-	4	-	80x50	80x50	80-50	80-50	800x500
VKSB 1000x500-4 L3	-	5	-	100x50	100x50	100-50	100-50	1000x500

Flexible connection



## VKSB 300x150-2 L1



Performance  
Power consumption

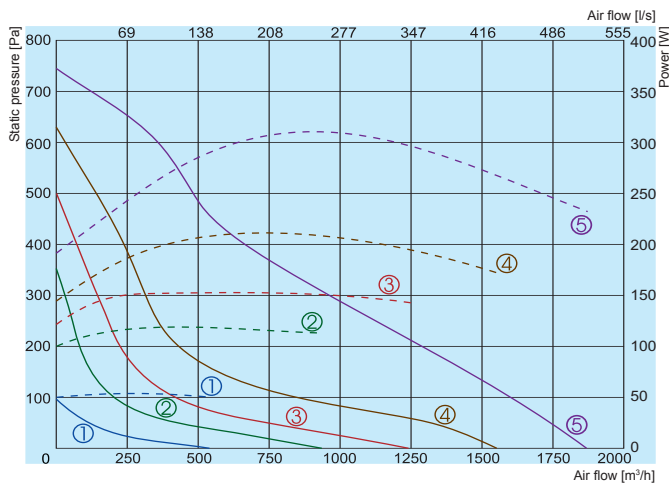
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 300x150-2 L1

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	70	41	52	68	62	60	52
Outlet	73	38	55	68	65	66	55
Surrounding	57	25	41	54	50	50	41

Measured at 328 m³/h, 152 Pa

## VKSB 500x300-2 L1



Performance  
Power consumption

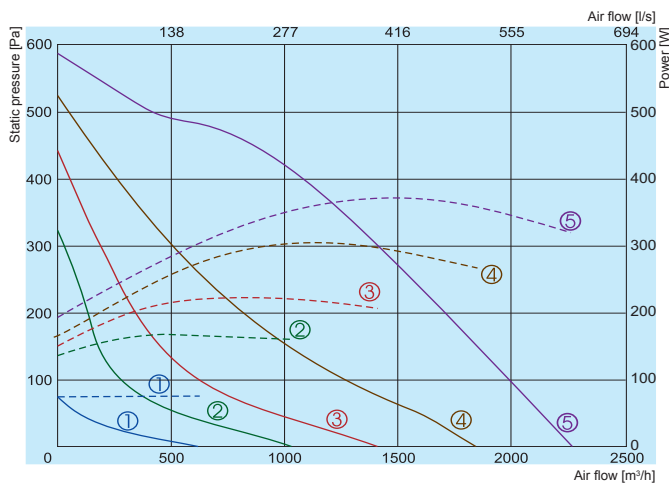
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 500x300-2 L1

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	74	61	56	69	66	67	60
Outlet	79	61	63	74	72	75	65
Surrounding	60	47	43	57	53	51	47

Measured at 889 m³/h, 300 Pa

## VKSB 500x300-2S L1



Performance  
Power consumption

- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

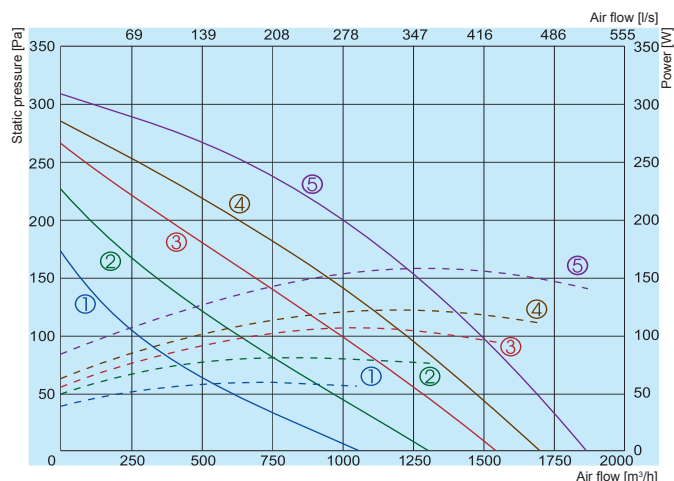
### 500x300-2S L1

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	74	61	56	69	66	65	59
Outlet	80	61	63	74	72	70	67
Surrounding	60	47	43	57	53	47	40

Measured at 1009 m³/h, 413 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

## VKSB 500x300-4 L3



Performance  
Power consumption

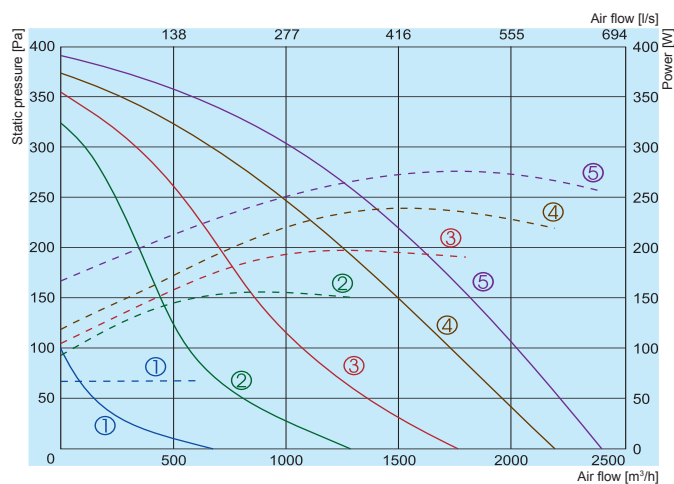
- ① 130V
- ② 170V
- ③ 220V
- ④ 270V
- ⑤ 400V

### 500x300-4 L3

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	76	62	65	70	69	70	66	60
Outlet	80	65	68	72	75	73	70	69
Surrounding	63	49	51	55	59	55	52	50

Measured at 1476 m³/h, 104 Pa

## VKSB 600x300-4 L1



Performance  
Power consumption

- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 600x300-4 L1

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	78	64	72	69	70	72	70	65
Outlet	81	67	74	73	75	74	72	68
Surrounding	63	46	52	59	58	56	51	48

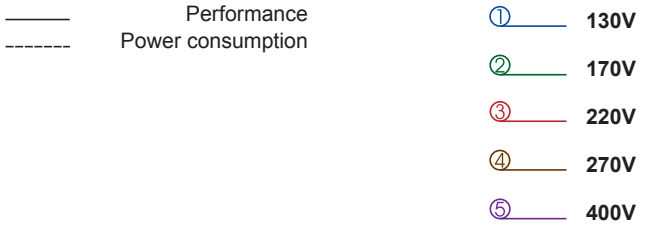
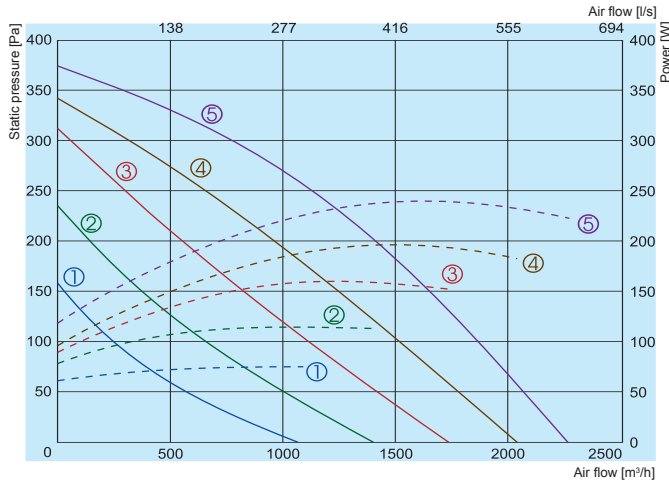
Measured at 2013 m³/h, 100 Pa

		300x150-2 L1	500x300-2 L1	500x300-2S L1	500x300-4 L3	600x300-4 L1
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	400/50	230/50
Power consumption	[kW]	0,067	0,313	0,388	0,16	0,28
Current	[A]	0,29	1,36	1,74	0,37	1,34
Speed	[min <sup>-1</sup> ]	2467	2225	2750	1370	1390
Capacitor	[µF]	2	8	10	-	6
Max. airflow	[m³/h]	527	1872	2264	1864	2390
Min./Max. air temperature	[°C]	-30/50	-30/40	-25/60	-20/50	-20/65
Weight	[kg]	7,0	17,0	17,0	18,0	19,0
Wiring diagram		No. 4	No. 4	No.1	No. 3	No. 2
Protection class:	motor	IP-44	IP-44	IP-44	IP-54	IP-54
	terminal box	IP-55	IP-55	IP-55	IP-55	IP-55
Comply with ERP		2016	-	-	2018	-

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

The company reserves the right to make changes of technical data without prior notice

## VKSB 600x300-4 L3

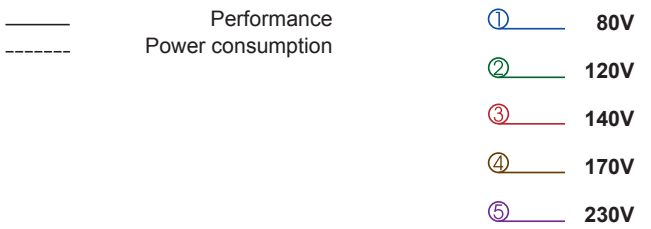
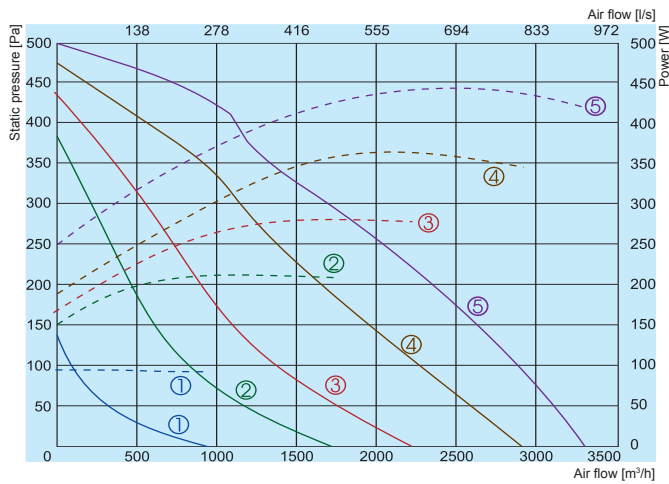


### 600x300-4 L3

LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	77	62	70	68	69	71	64
Outlet	80	68	72	73	73	74	68
Surrounding	62	43	48	59	57	52	45

Measured at 1865 m<sup>3</sup>/h, 101 Pa

## VKSB 600x350-4 L1

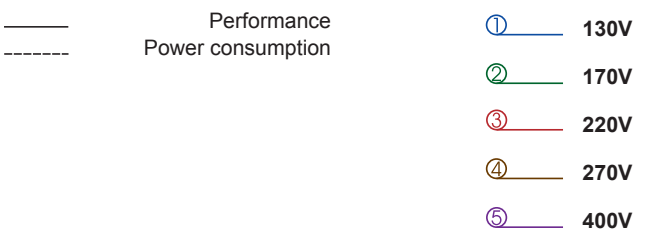
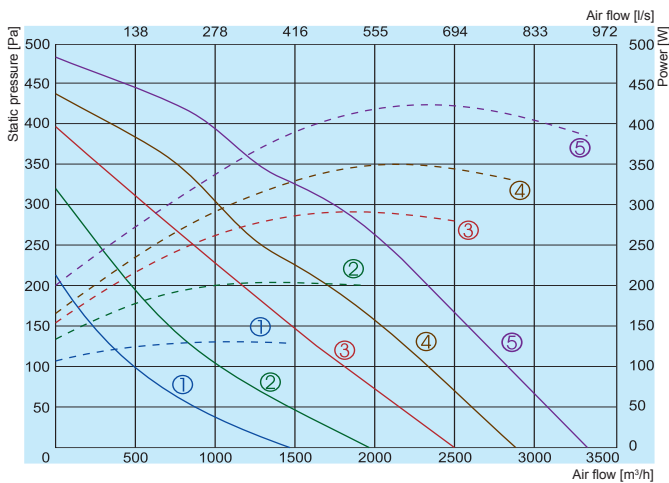


### 600x350-4 L1

LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	77	57	64	68	73	72	65
Outlet	82	61	64	74	78	75	70
Surrounding	65	46	52	57	61	59	53

Measured at 2748 m<sup>3</sup>/h, 124 Pa

## VKSB 600x350-4 L3

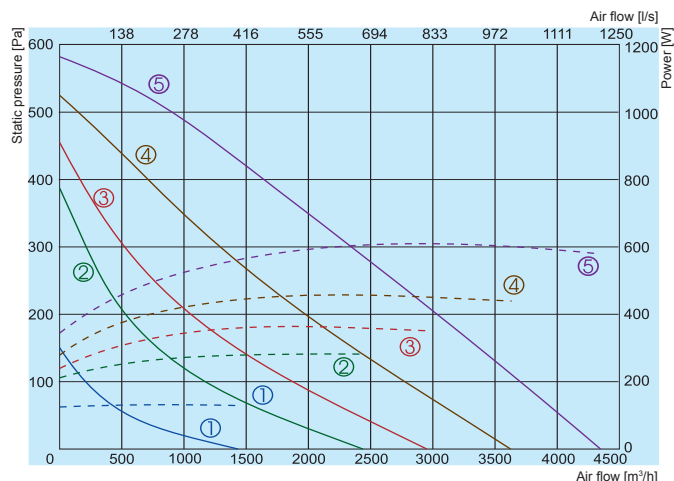


### 600x350-4 L3

LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	77	57	64	68	73	72	65
Outlet	82	61	64	74	78	75	70
Surrounding	65	46	52	57	61	59	53

Measured at 2747 m<sup>3</sup>/h, 118 Pa

## VKSB 700x400-4 L1



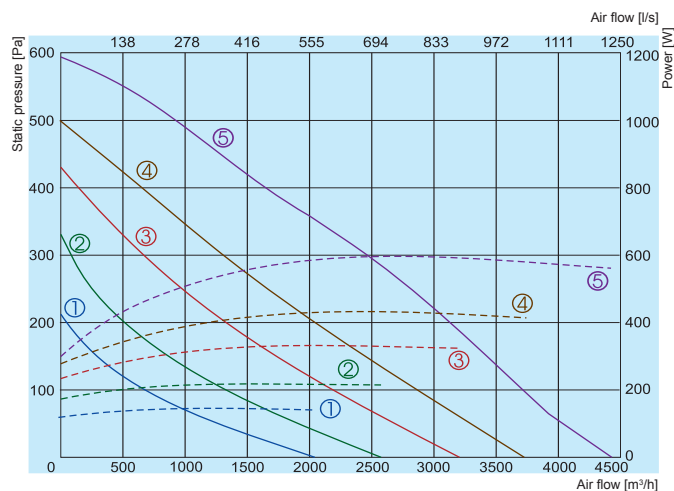
- Performance  
Power consumption
- ① 80V
  - ② 120V
  - ③ 140V
  - ④ 170V
  - ⑤ 230V

### 700x400-4 L1

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	81	60	59	70	79	74	70	62
Outlet	84	61	68	74	80	77	76	69
Surrounding	68	48	52	58	66	61	58	52

Measured at 3550 m<sup>3</sup>/h, 119 Pa

## VKSB 700x400-4 L3



- Performance  
Power consumption
- ① 130V
  - ② 170V
  - ③ 220V
  - ④ 270V
  - ⑤ 400V

### 700x400-4 L3

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	80	58	60	71	77	75	71	61
Outlet	84	60	66	76	78	78	77	68
Surrounding	69	52	51	59	67	60	55	54

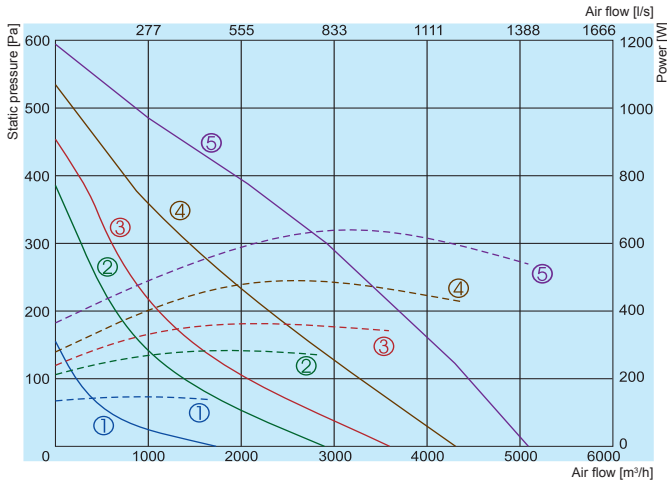
Measured at 3608 m<sup>3</sup>/h, 114 Pa

		600x300-4 L3	600x350-4 L1	600x350-4 L3	700x400-4 L1	700x400-4 L3
Voltage/Frequency	[V/Hz]	400/50	230/50	400/50	230/50	400/50
Power consumption	[kW]	0,24	0,45	0,43	0,62	0,60
Current	[A]	0,47	2,14	0,83	2,85	1,28
Speed	[min <sup>-1</sup> ]	1340	1280	1320	1240	1250
Capacitor	[µF]	-	10	-	12	-
Max. airflow	[m <sup>3</sup> /h]	2262	3296	3315	4371	4426
Min./Max. air temperature	[°C]	-20/60	-20/60	-20/55	-20/60	-20/40
Weight	[kg]	21,0	24,0	27,0	48,0	64,0
Wiring diagram		No. 3	No. 2	No. 3	No. 2	No. 3
Protection class:	motor	IP-54	IP-54	IP-54	IP-54	IP-54
	terminal box	IP-55	IP-55	IP-55	IP-55	IP-55
Comply with ERP		2018	-	2016	-	-

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

The company reserves the right to make changes of technical data without prior notice

## VKSB 800x500-4 L1



Performance  
Power consumption

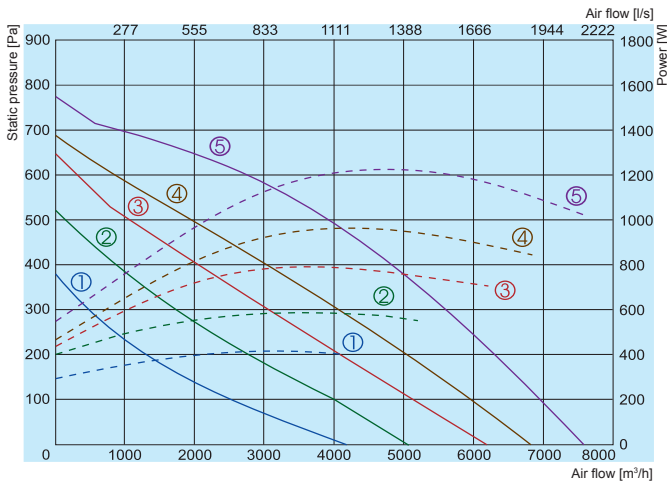
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 800x500-4 L1

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	81	63	65	70	78	75	68
Outlet	86	67	67	77	84	77	73
Surrounding	68	51	52	56	65	60	55

Measured at 4204 m³/h, 134 Pa

## VKSB 800x500-4 L3



Performance  
Power consumption

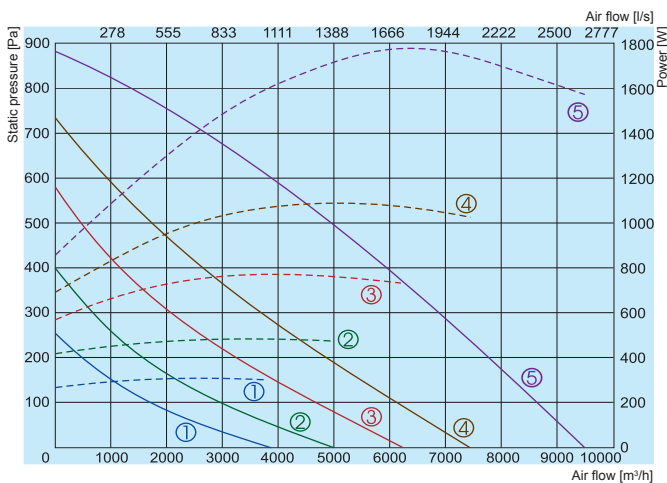
- ① 130V
- ② 170V
- ③ 220V
- ④ 270V
- ⑤ 400V

### 800x500-4 L3

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	88	79	68	78	86	78	75
Outlet	92	78	77	86	87	85	80
Surrounding	74	64	59	66	70	65	61

Measured at 7027 m³/h, 100 Pa

## VKSB 1000x500-4 L3



Performance  
Power consumption

- ① 130V
- ② 170V
- ③ 220V
- ④ 270V
- ⑤ 400V

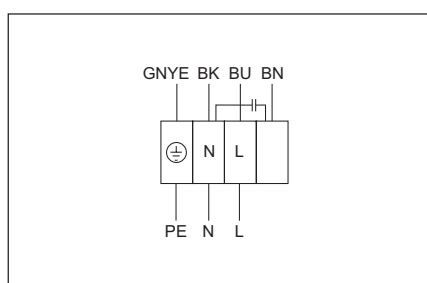
### 1000x500-4 L3

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	93	86	72	84	90	80	75
Outlet	96	80	82	91	89	90	83
Surrounding	78	68	63	72	74	68	63

Measured at 8622 m³/h, 102 Pa

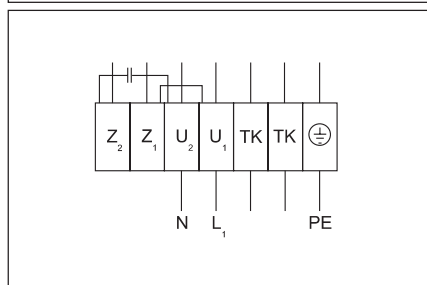
The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

		800x500-4 L1	800x500-4 L3	1000x500-4 L3
Voltage/Frequency	[V/Hz]	230/50	400/50	400/50
Power consumption	[kW]	0,66	1,2	1,79
Current	[A]	3,0	2,31	3,43
Speed	[min <sup>-1</sup> ]	1240	1330	1180
Capacitor	[μF]	12	-	-
Max. airflow	[m <sup>3</sup> /h]	5084	7643	9494
Max. air temperature	[°C]	-20/60	-20/55	-20/40
Weight	[kg]	56,0	69,0	89,0
Wiring diagram		No. 2	No. 3	No. 3
Protection class:	motor	IP-54	IP-54	IP-54
	terminal box	IP-55	IP-55	IP-55
Comply with ERP		-	-	-



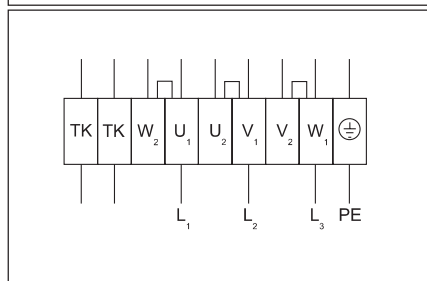
### Wiring diagram No. 1 (1~230V)

GNYE - green-yellow  
 BK - black  
 BU - blue  
 BN - brown



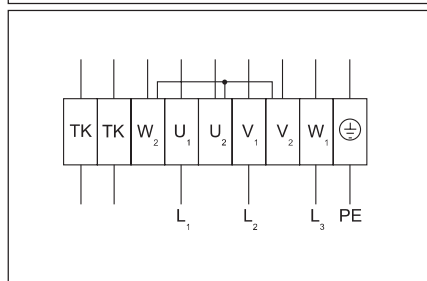
### Wiring diagram No. 2 (1~230V)

U<sub>1</sub> - brown  
 U<sub>2</sub> - blue  
 Z<sub>1</sub> - black  
 Z<sub>2</sub> - orange  
 TK - white  
 PE - green-yellow



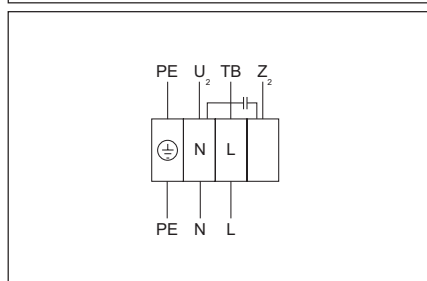
### Wiring diagram No. 3 (Δ - 3~230V)

U<sub>1</sub> - brown  
 U<sub>2</sub> - red  
 V<sub>1</sub> - blue  
 V<sub>2</sub> - grey  
 W<sub>1</sub> - black  
 W<sub>2</sub> - orange  
 TK - white  
 PE - green-yellow



### Wiring diagram No. 3 (Y - 3~400V)

U<sub>1</sub> - brown  
 U<sub>2</sub> - red  
 V<sub>1</sub> - blue  
 V<sub>2</sub> - grey  
 W<sub>1</sub> - black  
 W<sub>2</sub> - orange  
 TK - white  
 PE - green-yellow



### Wiring diagram No. 4 (1~230V)

U<sub>2</sub> - blue or grey  
 Z<sub>2</sub> - black  
 TB - brown  
 PE - green-yellow