

# VKAP 2.0



**NEW!**

Circular duct fans

Apvalūs kanaliniai ventilatoriai

Wentylatory do kanałów okrągłych

Круглые канальные вентиляторы



Circular duct fans are used for air supply or extract in ventilation and air conditioning systems. Are mounted into a system of round air ducts. Can be installed in any position. Not suitable for polluted air, aggressive and explosive gases.

Impeller with backward curved blades.

Motor: external rotor, motor protection with built-in thermal-contact with manual reset, maintenance free ball bearings.

The casing is manufactured from galvanised sheet steel and folded which ensures high air casing tightness.

All VKAP 2.0 range comply with ERP 2013 or higher ERP 2015

Mounting bracket LAV including.



Kanaliniai ventilatoriai, skirti vėdinimo ir oro kondicionavimo sistemoms, montuojami į apvalių ortakių sistemą. Naudojami oro tiekimui ir šalinimui. Nenaudojami užteršto oro, agresyvių, sprogių dujų transportavimui.

Sparnuotė: atgal lenktais sparneliais, plastmasinė arba cinkuoto plieno.

Variklis: išorinis rotorius, tiesioginė pavara, integruota termokontaktinė variklio apsauga su rankiniu atstatymu, ilgai tarnaujantys, nereikalaujantys priežiūros guoliai.

Korpusas šampuotas iš cinkuotos skardos užtikrina aukštą oro sandarumą.

Visi VKAP 2.0 atitinka ERP 2013 reikalavimus ar aukštesnius ERP 2015.

Komplektuojamas su laikikliu LAV.



Wentylatory kanałowe okrągłe używane są do zasilania lub wyciągu powietrza w systemach wentylacyjnych i klimatyzacyjnych. Montowane są w system kanałów okrągłych. Mogą być instalowane w dowolnej pozycji. Nie nadają się do zanieczyszczonego powietrza, agresywnych i wybuchowych gazów.

Wirnik z łopatkami wygiętymi do tyłu.

Silnik: z zewnętrznym wirnikiem, zabezpieczenie silnika z wbudowanym zabezpieczeniem termicznym z ręcznym resetem, bezobsługowe łożyska kulkowe.

Obudowa wykonana jest z blachy stalowej ocynkowanej.

Wszystkie VKAP 2.0 zgodne są z ERP 2013 lub wyższej ERP 2015.

Wspornika montażowy LAV.



Канальные вентиляторы для систем вентиляции и кондиционирования, устанавливаются в систему круглых воздуховодов. Эксплуатируются в целях подачи и вытяжки воздуха. Не используются при транспортировке загрязнённого воздуха, агрессивных, взрывоопасных газов.

Крыльчатка: загнутые назад лопасти.

Двигатель: наружный ротор, прямая передача, встроенная термодатная защита двигателя, не требующие ухода подшипники с длительным сроком службы.

Прилагается монтажный кронштейн LAV.

## Accessories

Single phase speed controller



TGRV

p. 138

Single phase speed controller



ETY

p. 141

Mounting clamp



AP

p. 152

Guard grille



AGO

p. 212

Back draft shutter



RSK

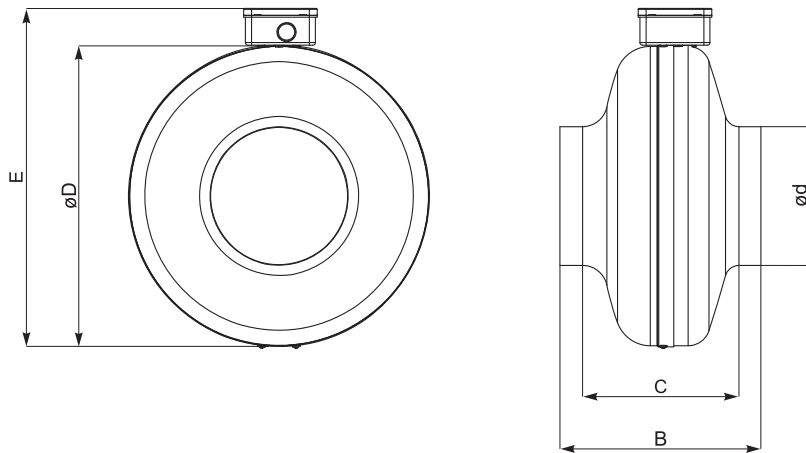
p. 205

Circular duct silencer



AKS

p. 198



Type	Dimensions [mm]				
	B	C	øD	ød	E
VKAP 100 MD/LD 2.0	189	152	244	100	287
VKAP 125 MD/LD 2.0	182	143	243	125	286
VKAP 160 MD 2.0	189	143	244	160	287
VKAP 160 LD 2.0	217	166	344	160	387
VKAP 200 MD 2.0	219	167	344	200	387
VKAP 200 LD 2.0	231	179	344	200	387
VKAP 250 MD 2.0	223	160	344	250	387
VKAP 250 LD 2.0	230	167	344	250	387
VKAP 315 MD 2.0	243	175	402	315	444
VKAP 315 LD 2.0	256	188	402	315	444

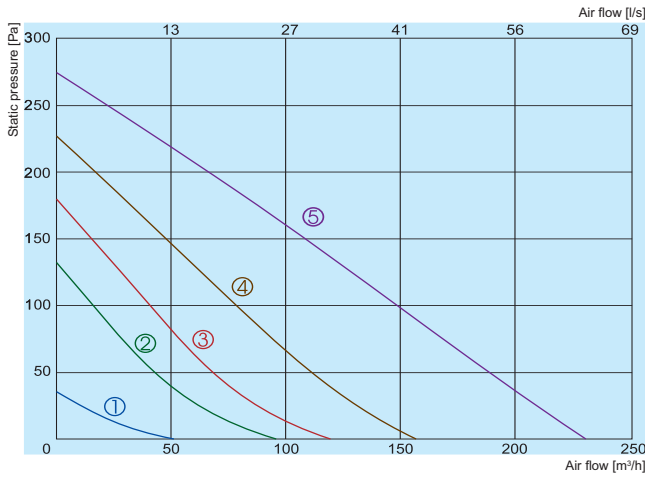
Type	Accessories										
	TGRV	ETY	AP	AGO	RSK	AKS	FD	FDI	EKA	AVS	AVA
VKAP 100 MD/LD 2.0	1,5	1,5	100	100	100	100	100	100	100	100	100
VKAP 125 MD/LD 2.0	1,5	1,5	125	125	125	125	125	125	125	125	125
VKAP 160 MD 2.0	1,5	1,5	160	160	160	160	160	160	160	160	160
VKAP 160 LD 2.0	1,5	1,5	160	160	160	160	160	160	160	160	160
VKAP 200 MD 2.0	1,5	1,5	200	200	200	200	200	200	200	200	200
VKAP 200 LD 2.0	1,5	1,5	200	200	200	200	200	200	200	200	200
VKAP 250 MD 2.0	1,5	1,5	250	250	250	250	250	250	250	250	250
VKAP 250 LD 2.0	1,5	1,5	250	250	250	250	250	250	250	250	250
VKAP 315 MD 2.0	1,5	1,5	315	315	315	315	315	315	315	315	315
VKAP 315 LD 2.0	1,5	1,5	315	315	315	315	315	315	315	315	315

## Accessories



# VKAP 2.0

## VKAP 100 MD 2.0



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

### 100 MD 2.0

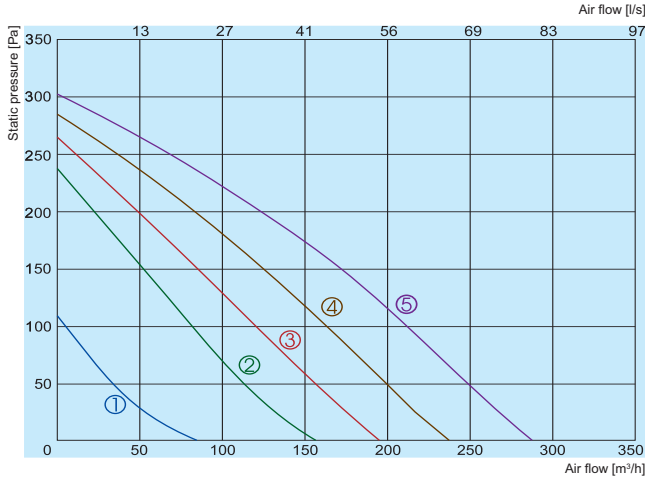
In duct

Surrounding

Measured at 203 m³/h, 32 Pa

LWA total, dB(A)	Lwa, dB(A)							
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
In duct	61	43	58	51	55	50	39	30
Surrounding	46	24	25	35	44	41	28	20

## VKAP 100 LD 2.0



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

### 100 LD 2.0

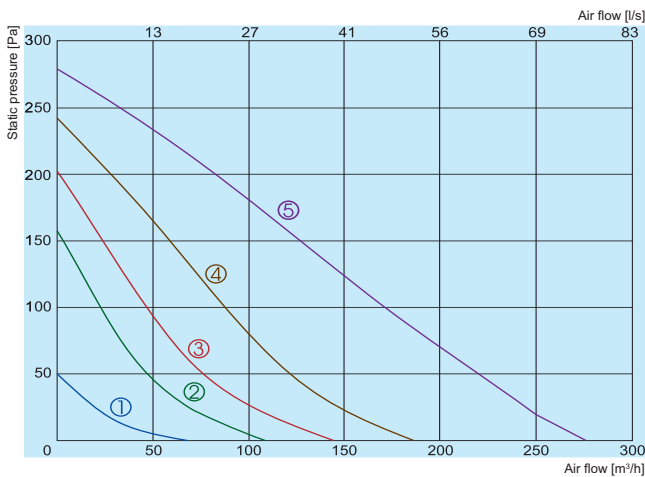
In duct

Surrounding

Measured at 264 m³/h, 32 Pa

LWA total, dB(A)	Lwa, dB(A)							
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
In duct	70	53	60	60	67	65	57	48
Surrounding	58	33	26	43	55	54	47	36

## VKAP 125 MD 2.0



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

### 125 MD 2.0

In duct

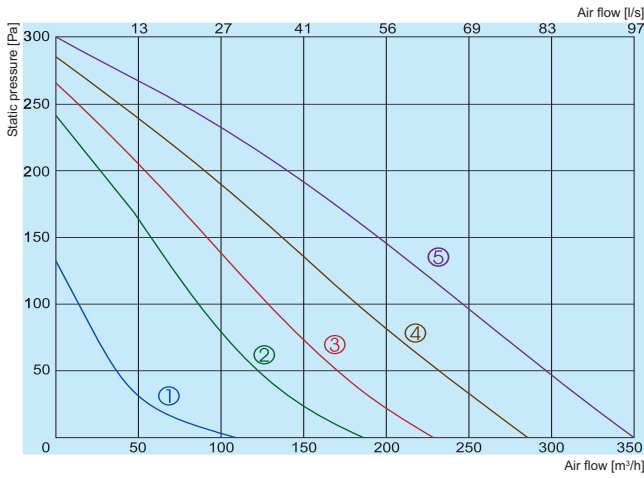
Surrounding

Measured at 251 m³/h, 20 Pa

LWA total, dB(A)	Lwa, dB(A)							
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
In duct	59	42	54	52	53	52	39	31
Surrounding	44	20	29	35	41	40	28	17

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.

## VKAP 125 LD 2.0



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

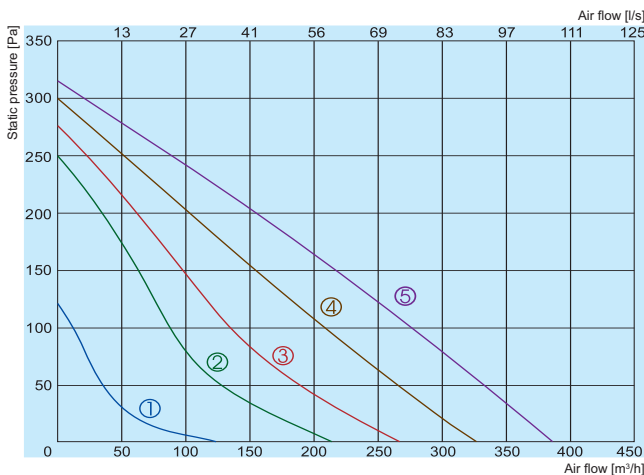
### 125 LD 2.0

In duct  
Surrounding  
Measured at 331 m³/h, 19 Pa

LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	68	49	53	61	65	63	55
Surrounding	56	27	28	44	53	51	43

	100 MD 2.0	100 LD 2.0	125 MD 2.0	125 LD 2.0
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50
Power consumption	[kW]	0,044	0,063	0,044
Current	[A]	0,19	0,27	0,19
Speed	[min <sup>-1</sup> ]	1992	2400	1907
Max. airflow	[m³/h]	232	290	278
Min./Max. air temperature	[°C]	-30/40	-30/70	-30/40
Weight	[kg]	3	3	3
Wiring diagram		No.2	No.1	No.2
Protection class:	motor	IP-44	IP-44	IP-44
	terminal box	IP-55	IP-55	IP-55
Comply with ERP 2013/2015		+/+	+/+	+/+

## VKAP 160 MD 2.0



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

### 160 MD 2.0

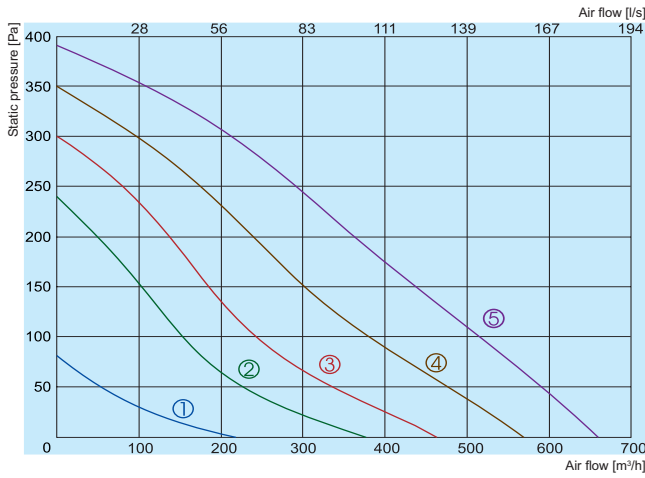
In duct  
Surrounding  
Measured at 365 m³/h, 20 Pa

LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	68	47	50	56	64	63	62
Surrounding	56	25	20	39	52	51	50

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.

# VKAP 2.0

## VKAP 160 LD 2.0



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

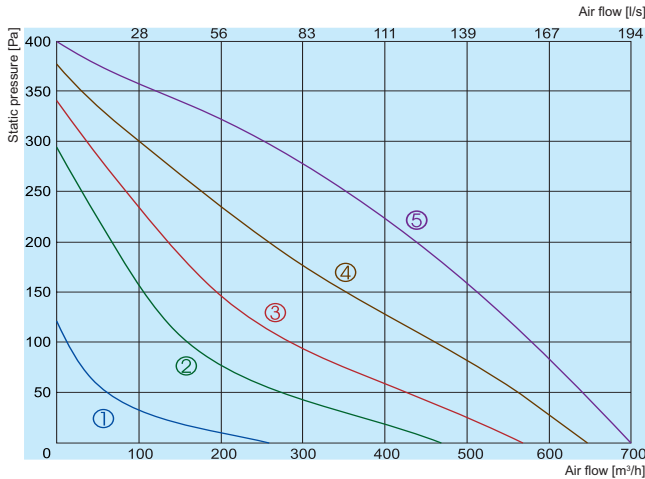
### 160 LD 2.0

In duct  
Surrounding

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	74	51	67	67	71	63	49
Surrounding	61	29	48	50	59	51	34

Measured at 531 m³/h, 80 Pa

## VKAP 200 MD 2.0



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

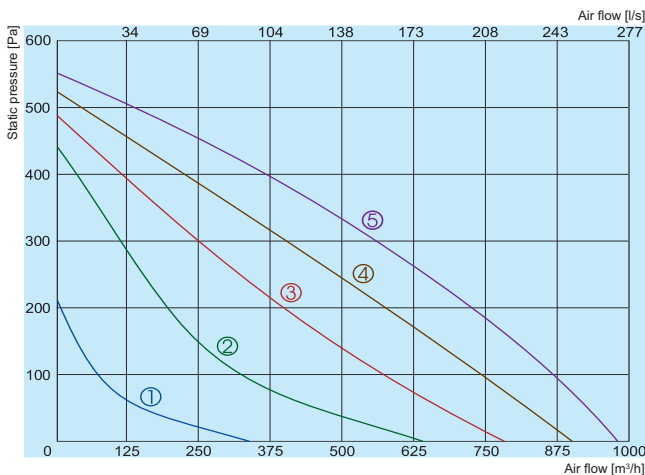
### 200 MD 2.0

In duct  
Surrounding

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	70	44	53	60	67	64	52
Surrounding	55	14	23	40	49	42	38

Measured at 673 m³/h, 30 Pa

## VKAP 200 LD 2.0



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

### 200 LD 2.0

In duct  
Surrounding

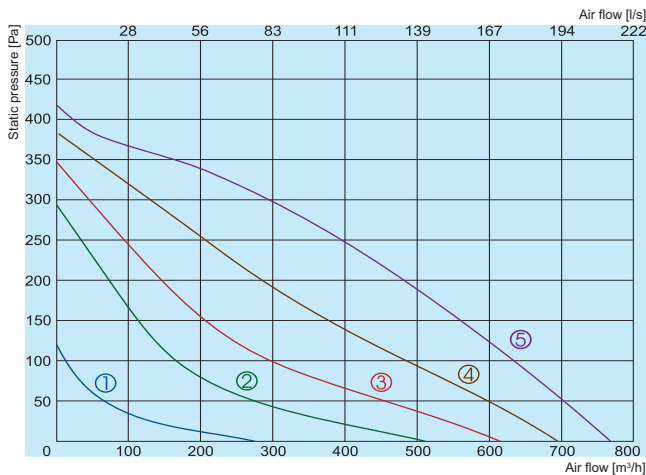
Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	74	53	61	65	69	66	62
Surrounding	58	23	31	45	51	46	48

Measured at 915 m³/h, 42 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.

		160 MD 2.0	160 LD 2.0	200 MD 2.0	200 LD 2.0
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,097	0,064	0,097	0,146
Current	[A]	0,42	0,28	0,42	0,65
Speed	[min <sup>-1</sup> ]	2500	2400	2500	2560
Max. airflow	[m <sup>3</sup> /h]	386	673	700	960
Min./Max. air temperature	[°C]	-30/60	-30/70	-30/60	-30/70
Weight	[kg]	3	4	4,5	5,0
Wiring diagram		No.1	No.1	No.1	No.1
Protection class:	motor	IP-44	IP-44	IP-44	IP-44
	terminal box	IP-55	IP-55	IP-55	IP-55
Comply with ERP 2013/2015		+/+	+/+	+/+	+/-

## VKAP 250 MD 2.0



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

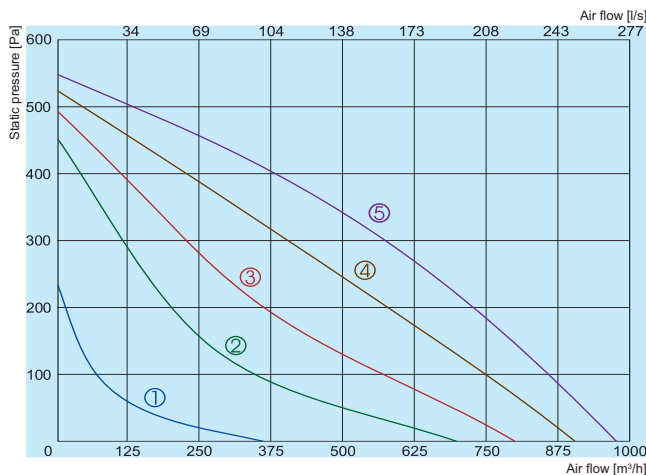
### 250 MD 2.0

In duct  
Surrounding

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	71	42	52	59	67	64	66
Surrounding	51	19	29	39	47	44	38

Measured at 733 m³/h, 30 Pa

## VKAP 250 LD 2.0



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

### 250 LD 2.0

In duct  
Surrounding

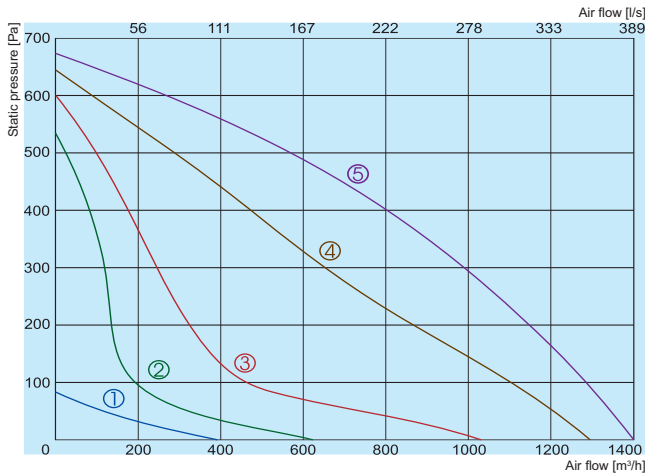
Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	74	54	62	66	69	67	66
Surrounding	55	31	39	46	49	47	48

Measured at 893 m³/h, 39 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.

# VKAP 2.0

## VKAP 315 MD 2.0



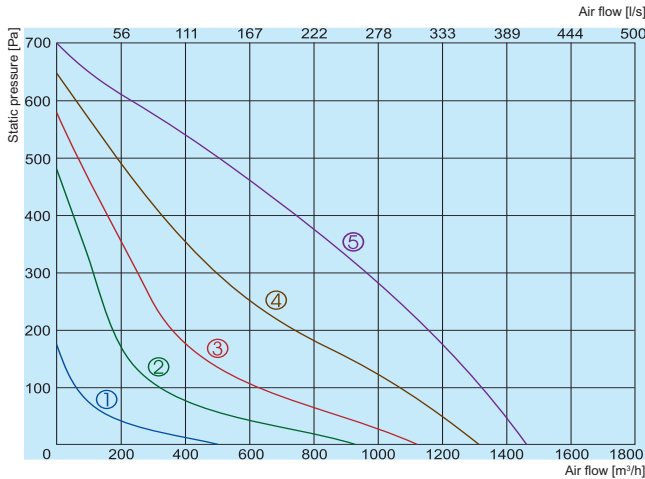
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 315 MD 2.0

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	78	53	62	70	75	68	67	68
Surrounding	57	32	40	49	54	49	47	44

Measured at 1195 m³/h, 100 Pa

## VKAP 315 LD 2.0



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

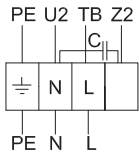
### 315 LD 2.0

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	75	51	61	67	67	68	68	69
Surrounding	54	30	39	46	46	49	48	45

Measured at 1583 m³/h, 43 Pa

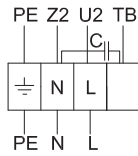
		250 MD 2.0	250 LD 2.0	315 MD 2.0	315 LD 2.0
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,099	0,143	0,245	0,270
Current	[A]	0,43	0,63	1,08	1,2
Speed	[min <sup>-1</sup> ]	2500	2560	2730	2617
Max. airflow	[m³/h]	760	938	1310	1670
Min./Max. air temperature	[°C]	-30/60	-30/70	-30/60	-40/80
Weight	[kg]	4,5	4,5	6,5	6,5
Wiring diagram		No.1	No.1	No.3	No.1
Protection class:	motor	IP-44	IP-44	IP-44	IP-44
	terminal box	IP-55	IP-55	IP-55	IP-55
Comply with ERP 2013/2015		+/+	+/-	+/-	+/-

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



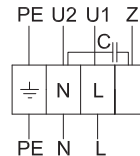
**U<sub>2</sub>** - blue or grey  
**Z<sub>2</sub>** - black  
**TB** - brown  
 Fan with manual reset

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



**U<sub>2</sub>** - blue or grey  
**Z<sub>2</sub>** - black  
**TB** - brown  
 Fan with manual reset

**Wiring diagram No. 3 (1~230V)**



**U<sub>1</sub>** - blue  
**U<sub>2</sub>** - black  
**Z** - brown  
**PE** - green - yellow  
 Fan with manual reset