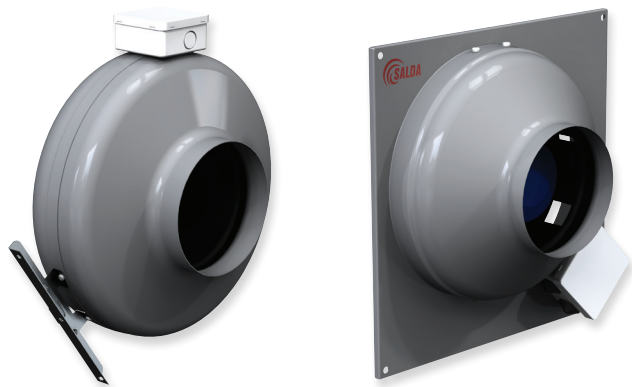


# VKA/VKAS

VKA

VKAS



Circular duct fans

Ventilateurs pour gaines circulaires

Rohrventilatoren

Ventiladores para conductos circulares



## VKA

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, maintenance free ball bearings.

Mounting bracket LAV including.

## VKAS

Circular duct fans used for air extract in ventilation and air conditioning systems. Are mounted on the walls. Not suitable for polluted air, aggressive and explosive gases.

VKA/VKAS with powder coating finishing RAL 7035.



## VKA

Kanalventilatoren, die für Lüftungs- und Klimaanlage bestimmt sind, werden in das System der runden Luftführungskanäle montiert. Sie werden für Zuluft und -Abluft verwendet. Nicht geeignet für die Beförderung von verschmutzter Luft, aggressiven, explosiven Gasen.

Laufrad ist rückwärts gekrümmt.

Der Motor: Außenrotor, Direktantrieb, integrierter Thermokontakt-Motorschutz, dauerhafte, keine Pflege erfordernde Lager.

Inklusiv Montage-Konsole LAV.

## VKAS

Kanalventilatoren, die für Lüftungs- und Klimaanlage bestimmt sind, werden an die Wand montiert. Sie werden für Zuluft und Abluft verwendet. Nicht geeignet für die Beförderung von verschmutzter Luft, aggressiven, explosiven Gasen.

VKA/VKAS gehäuse gestrichen RAL 7035.



## VKA

Ventilateurs pour gaines destinés aux systèmes de ventilation et de climatisation en montage direct sur conduits d'air circulaires. Utilisation en apport d'air neuf ou extraction d'air vicié. Le produit n'est pas adapté au transport d'air fortement pollué, de gaz agressifs ou explosifs.

Turbine : réaction (pales incurvées vers l'arrière).

Moteur : rotor extérieur, entraînement direct, protection moteur intégrée par thermocontact, roulements à longue durée de vie ne nécessitant pas d'entretien.

Supports de montage LAV.

## VKAS

Ventilateurs pour gaines destinés aux systèmes de ventilation et de climatisation en montage mural en applique.

Utilisation en apport d'air neuf ou extraction d'air vicié. Le produit n'est pas adapté au transport d'air fortement pollué, de gaz agressifs ou explosifs.

Enveloppe VKA/VKAS peinte avec RAL 7035.



## VKA

Estos ventiladores se utilizan para la extracción de aire. Los ventiladores de conducto de tipo circular se utilizan para el suministro de aire o extracción en los sistemas de ventilación y aire acondicionado. Se montan en sistemas de conductos de aire circular. Puede ser instalado en cualquier posición. No es adecuado para su uso con aire contaminado, gases agresivos y explosivos.

Rodete de álabes curvados hacia atrás.

Motor: rotor externo, con protección térmica y rodamientos a bolas sin mantenimiento.

El soporte de montaje LAV incluido.

## VKAS

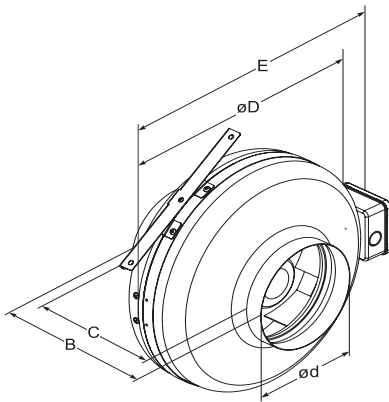
Ventiladores para conductos de tipo circular utilizados para la extracción de aire en los sistemas de ventilación y aire acondicionado. Montaje sobre muros. No es adecuado para uso con aires contaminados, gases agresivos y explosivos.

VKA/VKAS con acabado en pintura RAL 7035.

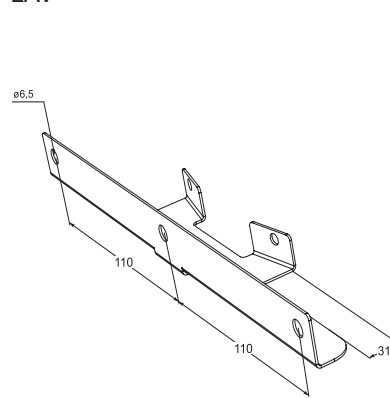
## Accessories

Single phase speed controller	Single phase speed controller	Mounting clamp	Guard grille	Back draft shutter	Circular duct silencer
TGRV p. 102	ETY p. 105	AP p. 116	AGO p. 176	RSK p. 169	AKS p. 162

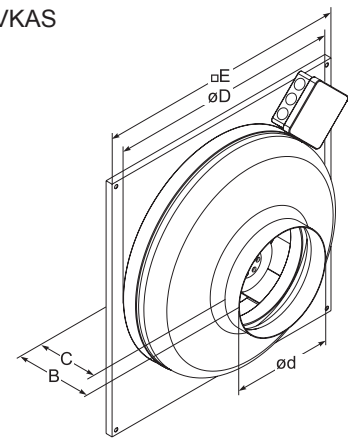
VKA



LAV



VKAS



VKA

Type	Dimensions [mm]				
	B	C	øD	ød	E
VKA 100 MD/LD	206±2	167±2	245	100	290
VKA 125 MD/LD	206±2	175±2	245	125	290
VKA 150 LD	227±2	176±2	345	150	390
VKA 160 MD	202±2	153±2	245	160	290
VKA 160 LD	227±2	176±2	345	160	390
VKA 200 MD	219±2	167±2	345	200	390
VKA 200 LD	227±2	175±2	345	200	390
VKA 250 MD	223±2	163±2	345	250	390
VKA 250 LD	230±2	170±2	345	250	390
VKA 315 MD	247±2	179±2	400	315	445
VKA 315 LD	257±2	189±2	400	315	445

VKAS

Type	Dimensions [mm]				
	B	C	øD	ød	□E
VKAS 100 MD/LD	122	103	242	100	310
VKAS 125 MD/LD	116	101	242	125	310
VKAS 150 LD	129	104	342	150	400
VKAS 160 MD	116	92	242	160	310
VKAS 160 LD	129	104	342	160	400
VKAS 200 MD	123	99	342	200	400
VKAS 200 LD	131	107	342	200	400
VKAS 250 MD	125	100	342	250	400
VKAS 250 LD	131	106	342	250	400
VKAS 315 MD	156	116	400	315	460
VKAS 315 LD	166	126	400	315	460

Type	Accessories										
	TGRV	ETY	AP	AGO	RSK	AKS	FD	FDI	EKA	AVS	AVA
VKA/VKAS 100 MD/LD	1,5	1,5	100	100	100	100	100	100	100	100	100
VKA/VKAS 125 MD/LD	1,5	1,5	125	125	125	125	125	125	125	125	125
VKA/VKAS 150 LD	1,5	1,5	150	150	150	150	-	-	-	-	-
VKA/VKAS 160 MD	1,5	1,5	160	160	160	160	160	160	160	160	160
VKA/VKAS 160 LD	1,5	1,5	160	160	160	160	160	160	160	160	160
VKA/VKAS 200 MD	1,5	1,5	200	200	200	200	200	200	200	200	200
VKA/VKAS 200 LD	1,5	1,5	200	200	200	200	200	200	200	200	200
VKA/VKAS 250 MD	1,5	1,5	250	250	250	250	250	250	250	250	250
VKA/VKAS 250 LD	1,5	1,5	250	250	250	250	250	250	250	250	250
VKA/VKAS 315 MD	1,5	1,5	315	315	315	315	315	315	315	315	315
VKA/VKAS 315 LD	1,5	1,5	315	315	315	315	315	315	315	315	315

## Accessories

Filter cassette



FD

p. 155

Filter cassette



FDI

p. 156

Electric duct heater



EKA

p. 120

Heating coil



AVS

p. 134

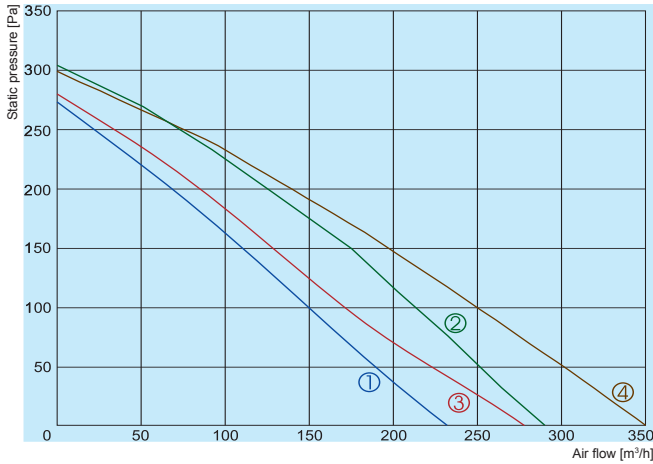
Duct water cooler



AVA

p. 148

# VKA/VKAS



- ① VKA 100 MD
- ② VKA 100 LD
- ③ VKA 125 MD
- ④ VKA 125 LD

		100 MD	100 LD	125 MD	125 LD
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,044	0,063	0,044	0,067
Current	[A]	0,19	0,27	0,19	0,29
Speed	[min <sup>-1</sup> ]	1992	2478	1907	2514
Max. airflow	[m <sup>3</sup> /h]	232	290	278	350
Min./Max. air temperature	[°C]	-30/40	-30/70	-30/40	-30/70
Weight	[kg]	3	3	3	3
Wiring diagram		No. 2	No. 1	No. 2	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		+	+	+	+

## 100 MD

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

Measured at 203 m<sup>3</sup>/h, 32 Pa

## 100 LD

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

Measured at 264 m<sup>3</sup>/h, 32 Pa

## 125 MD

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

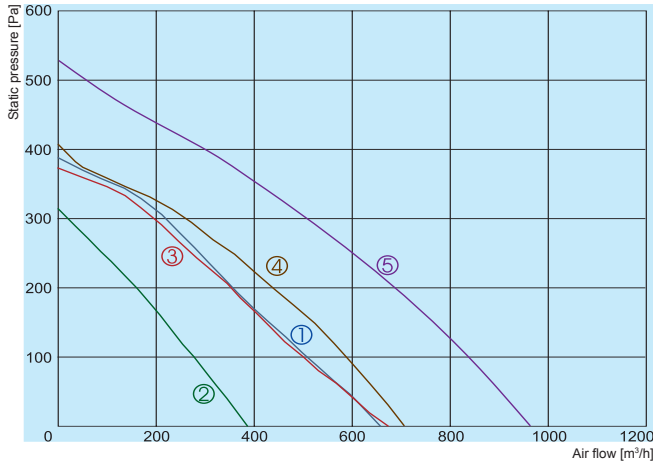
Measured at 251 m<sup>3</sup>/h, 20 Pa

## 125 LD

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	46
Surrounding	56	27	28	44	53	51	43	32

Measured at 331 m<sup>3</sup>/h, 19 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.



- ① VKA 150 LD
- ② VKA 160 MD
- ③ VKA 160 LD
- ④ VKA 200 MD
- ⑤ VKA 200 LD

		150 LD	160 MD	160 LD	200 MD	200 LD
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,100	0,065	0,100	0,100	0,140
Current	[A]	0,42	0,28	0,41	0,42	0,62
Speed	[min <sup>-1</sup> ]	2503	2409	2503	2503	2590
Max. airflow	[m <sup>3</sup> /h]	657	386	673	700	960
Min./Max. air temperature	[°C]	-30/60	-30/70	-30/60	-30/60	-30/70
Weight	[kg]	4	3	4	4,5	5,0
Wiring diagram		No. 1	No. 1	No. 1	No. 1	No. 1
Protection class:	motor	IP-44	IP-44	IP-44	IP-44	IP-44
	terminal box	IP-55	IP-55	IP-55	IP-55	IP-55
Comply with ERP 2013		+	+	+	+	+

### 150 LD

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 530 m<sup>3</sup>/h, 86 Pa

### 160 MD

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	49
Surrounding	56	25	20	39	52	51	34

Measured at 365 m<sup>3</sup>/h, 20 Pa

### 160 LD

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 m<sup>3</sup>/h, 80 Pa

### 200 MD

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	62	52
Surrounding	55	14	23	40	49	42	38

Measured at 673 m<sup>3</sup>/h, 30 Pa

### 200 LD

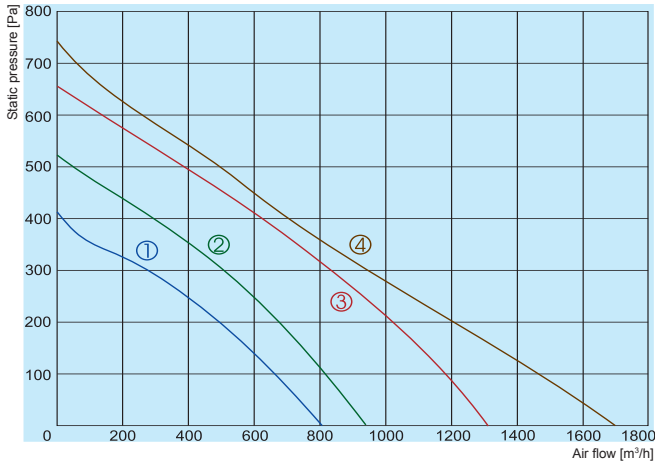
LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
In duct	74	53	61	65	69	66	62
Surrounding	58	23	31	45	51	46	48

Measured at 915 m<sup>3</sup>/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.

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

# VKA/VKAS



- ① VKA 250 MD
- ② VKA 250 LD
- ③ VKA 315 MD
- ④ VKA 315 LD

		250 MD	250 LD	315 MD	315 LD
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,100	0,136	0,214	0,292
Current	[A]	0,43	0,6	0,96	1,27
Speed	[min <sup>-1</sup> ]	2505	2590	2500	2266
Max. airflow	[m <sup>3</sup> /h]	760	938	1310	1670
Min./Max. air temperature	[°C]	-30/60	-30/70	-25/70	-30/45
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		+	+	-	-

## 250 MD

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	56
Surrounding	51	19	29	39	47	44	47	38

Measured at 733 m<sup>3</sup>/h, 30 Pa

## 250 LD

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	67	66
Surrounding	55	31	39	46	49	47	48	48

Measured at 893 m<sup>3</sup>/h, 39 Pa

## 315 MD

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

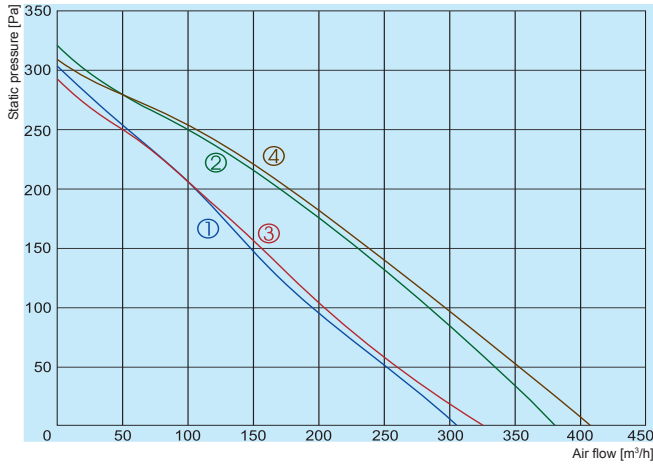
Measured at 1195 m<sup>3</sup>/h, 100 Pa

## 315 LD

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 m<sup>3</sup>/h, 43 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.



- ① VKAS 100 MD
- ② VKAS 100 LD
- ③ VKAS 125 MD
- ④ VKAS 125 LD

		100 MD	100 LD	125 MD	125 LD
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,045	0,064	0,045	0,066
Current	[A]	0,2	0,28	0,2	0,29
Speed	[min <sup>-1</sup> ]	1992	2478	1907	2514
Max. airflow	[m <sup>3</sup> /h]	300	380	324	400
Min./Max. air temperature	[°C]	-30/40	-30/70	-30/40	-30/70
Weight	[kg]	2,5	2,5	2,5	2,5
Wiring diagram		No. 2	No. 1	No. 2	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		+	+	+	+

### 100 MD

	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

Measured at 253 m<sup>3</sup>/h, 45 Pa

### 100 LD

	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

Measured at 325 m<sup>3</sup>/h, 61 Pa

### 125 MD

	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

Measured at 262 m<sup>3</sup>/h, 46 Pa

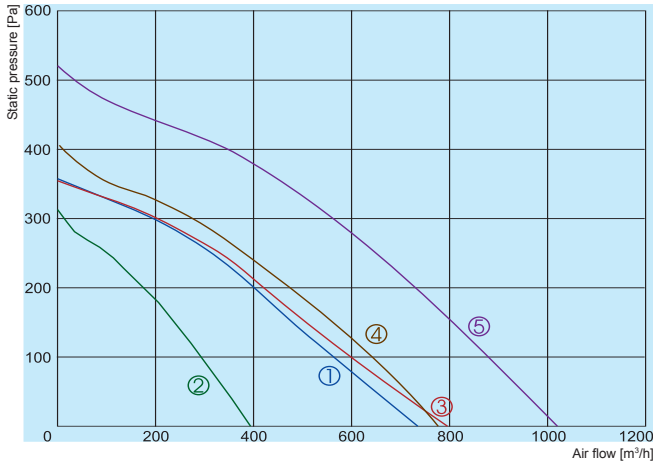
### 125 LD

	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	46
Surrounding	56	27	28	44	53	51	43	32

Measured at 362 m<sup>3</sup>/h, 41 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.

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



- ① — VKAS 150 LD
- ② — VKAS 160 MD
- ③ — VKAS 160 LD
- ④ — VKAS 200 MD
- ⑤ — VKAS 200 LD

		150 LD	160 MD	160 LD	200 MD	200 LD
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,092	0,064	0,095	0,097	0,140
Current	[A]	0,40	0,28	0,41	0,42	0,62
Speed	[min <sup>-1</sup> ]	2503	2409	2503	2503	2590
Max. airflow	[m <sup>3</sup> /h]	730	395	794	775	1000
Min./Max. air temperature	[°C]	-30/60	-30/70	-30/60	-30/60	-30/70
Weight	[kg]	4	2,8	4	4,1	4,8
Wiring diagram		No. 1	No. 1	No. 1	No. 1	No. 1
Protection class:	motor	IP-44	IP-44	IP-44	IP-44	IP-44
	terminal box	IP-55	IP-55	IP-55	IP-55	IP-55
Comply with ERP 2013		+	+	+	+	+

### 150LD

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 600 m<sup>3</sup>/h, 81 Pa

### 160 MD

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	49
Surrounding	56	25	20	39	52	51	34

Measured at 355 m<sup>3</sup>/h, 40 Pa

### 160LD

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 599 m<sup>3</sup>/h, 101 Pa

### 200 MD

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	62	52
Surrounding	55	14	23	40	49	42	38

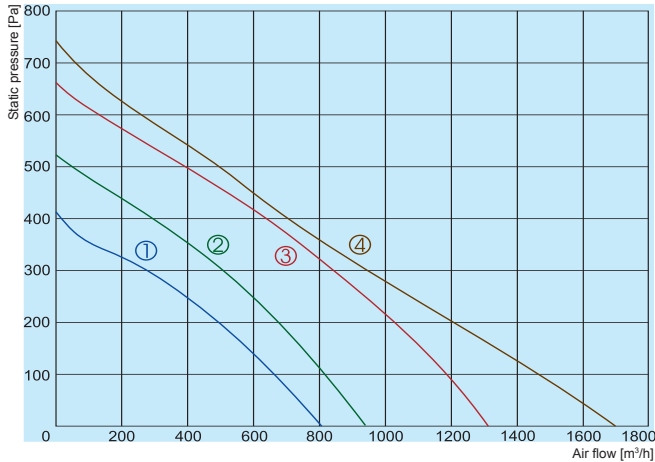
Measured at 670 m<sup>3</sup>/h, 80 Pa

### 200 LD

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 956 m<sup>3</sup>/h, 46 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.



- ① VKAS 250 MD
- ② VKAS 250 LD
- ③ VKAS 315 MD
- ④ VKAS 315 LD

		250 MD	250 LD	315 MD	315 LD
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,099	0,136	0,214	0,303
Current	[A]	0,43	0,6	0,96	1,33
Speed	[min <sup>-1</sup> ]	2505	2590	2500	2266
Max. airflow	[m <sup>3</sup> /h]	800	960	1310	1670
Min./Max. air temperature	[°C]	-30/70	-30/70	-25/70	-30/45
Weight	[kg]	4,1	4,9	5,6	6,0
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		+	+	-	-

### 250 MD

	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	56
Surrounding	51	19	29	39	47	44	47	38

Measured at 763 m<sup>3</sup>/h, 31 Pa

### 250 LD

	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	67	66
Surrounding	55	31	39	46	49	47	48	48

Measured at 926 m<sup>3</sup>/h, 40 Pa

### 315 MD

	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 1257 m<sup>3</sup>/h, 50 Pa

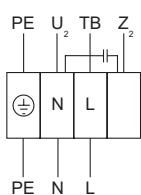
### 315 LD

	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 1595 m<sup>3</sup>/h, 49 Pa

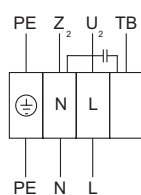
The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

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



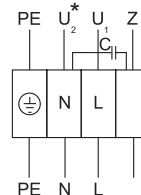
U<sub>2</sub> - blue or grey  
 Z<sub>2</sub> - black  
 TB - brown  
 PE - green - yellow

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



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

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



U<sub>1</sub> - blue  
 U<sub>2</sub>\* - black  
 Z - brown  
 PE - green - yellow