

# AKU



Acoustically insulated fans

Akustiniai kanaliniai ventiliatoriai

Wentylatory izolowane akustycznie

Канальные акустические вентиляторы



Acoustically insulated duct fans are made of galvanized steel. The fan casing has thermal and acoustic 50 mm insulation. These products can not be exploited in explosive environment. Fans can supply/extract clean air. Fans are mounted into the round air duct systems. For the AKU units are used centrifugal fans and motors with maintenance-free ball bearings. Fans with TK terminals have integrated thermo-contact protection of the motor. Fans have easily opening cover which ensures easy service. The maximum motor current and the rated power supply voltage. If the control voltage is reduced, motor current can exceed the rated current. Considering this, we recommend respective speed controllers for every fan. Acoustically insulated fans can be mounted only indoors.



Kanaliniai akustiniai ventiliatoriai, pasižymi žemu triukšmo lygiu įsiurbimo kanale ir į aplinką. Apžiūros dangtis lengvai atidaromas ir prie korpuso tvirtinamas vyriais ir užraktais, todėl ventiliatorių lengva prižiūrėti bei valyti. Nenaudojami užteršto oro, agresyvių, sprogių dujų transportavimui. Sparnuotė: atgal lenktais sparneliais. Variklis: išorinis rotorius, ilgai tarnaujantys, nereikalaujantys priežiūros guoliai. Korpusas: iš cinkuotos skardos. Garso izoliacija: akmens vatos, akmens vatos su sustiprintu paviršiumi, 50mm storio, nedegi.



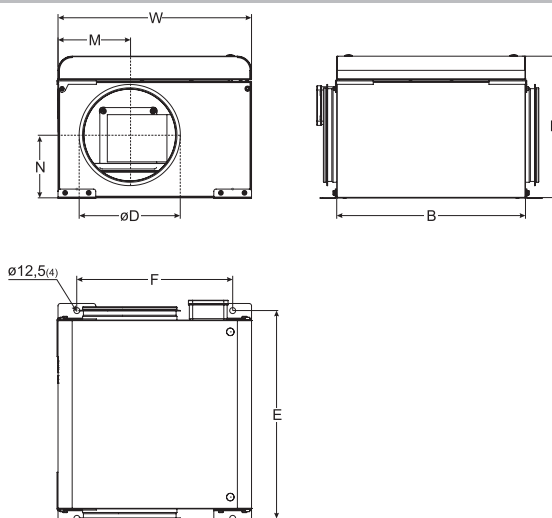
Wentylatory izolowane akustycznie. Obudowa wentylatora jest malowana proszkowo i posiada izolację termiczną i akustyczną grubości 50 mm. Nie nadają się do zastosowań w środowiskach agresywnych chemicznie oraz zagrożonych wybuchem. Nie zaleca się stosować w instalacjach zanieczyszczonych cząstkami stałymi, pyłami i odpadami technologicznymi. Nie stosować w instalacjach oddymiania, przeciwpożarowych, spalinowych. Wentylatory są zamontowane w systemach kanałowych o przekroju kołowym. Wentylatory promieniowe z bezobsługowymi łożyskami kulkowymi, wyposażone w zintegrowaną termo-kontaktową ochronę silnika. Wentylatory wyposażone w otwierane pokrywy, umożliwiające łatwą konserwację. Regulatory obrotów prędkości wentylatora dla każdego wentylatora z typoszeregu. Akustycznie izolowane wentylatory mogą być montowane tylko w pomieszczeniach zamkniętych.



Канальные акустические вентиляторы изготавливаются из оцинкованной жести. Корпус вентиляторов имеет 50 мм слой термической и акустической изоляции. Данные изделия не могут работать во взрывоопасной среде. Эксплуатируются в целях подачи и вытяжки чистого воздуха. Монтируются в системы круглых воздуховодов. В вентиляторах АКУ используются центробежные вентиляторы, подшипники двигателей которые не требуют ухода. Двигатели оснащены автоматической теплозащитой. Вентиляторы с клеммами ТК имеют встроенную термоконтakтную защиту двигателя. Обзорная крышка вентилятора открывается легко, что обеспечивает удобное обслуживание. Максимальный ток двигателя указан рядом с номинальным напряжением питания. При снижении напряжения ток двигателя может превысить указанное значение. Поэтому для каждого вентилятора рекомендуем соответствующие регуляторы скоростей. Акустические вентиляторы монтируются только в закрытых помещениях.

## Accessories

Single phase speed controller	Single phase speed controller	Mounting clamp	Guard grille	Back draft shutter	Circular duct silencer
TGRV p. 138	ETY/MTY p. 141	AP p. 152	AGO p. 212	RSK p. 205	AKS p. 198



Type	Dimensions [mm]							
	B	W	H	M	N	øD	E	F
AKU 125 M	400	410	300	133	171,5	125	440	330
AKU 125 D	400	410	300	133	171,5	125	440	330
AKU 160 M	400	410	300	261,5	141	160	440	330
AKU 160 D	400	410	300	261,5	141	160	440	330
AKU 200 M	444	444	420	222	250	200	484	364
AKU 200 D	400	410	300	258	133	200	440	330
AKU 200 S	600	560	420	170	244,5	200	640	480
AKU 250 M	444	444	420	222	221,5	250	484	364
AKU 250 D	694	694	500	218	304	250	734	614
AKU 250 S	694	694	500	228	304	250	734	614
AKU 315 M	694	694	500	238	270	315	734	614
AKU 315 D	768	768	570	252	319,5	315	808	688
AKU 400 D	768	768	570	252	304,5	400	808	688
AKU 400 S	705	768	685	384	420	400	745	688

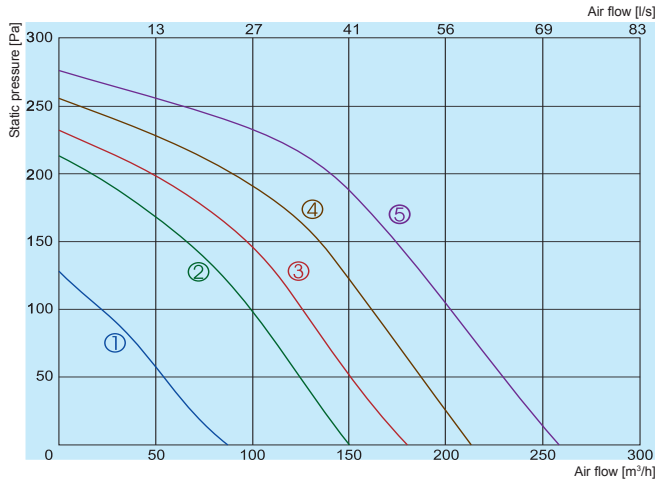
Type	Accessories										
	TGRV	ETY/MTY	AP	AGO	RSK	AKS	FD	FDI	EKA	AVS	AVA
AKU 125 M	1,5	1,5	125	125	125	125	125	125	125	125	125
AKU 125 D	1,5	1,5	125	125	125	125	125	125	125	125	125
AKU 160 M	1,5	1,5	160	160	160	160	160	160	160	160	160
AKU 160 D	1,5	1,5	160	160	160	160	160	160	160	160	160
AKU 200 M	1,5	1,5	200	200	200	200	200	200	200	200	200
AKU 200 D	1,5	1,5	200	200	200	200	200	200	200	200	200
AKU 200 S	1,5	1,5	200	200	200	200	200	200	200	200	200
AKU 250 M	2	1,5	250	250	250	250	250	250	250	250	250
AKU 250 D	4	4	250	250	250	250	250	250	250	250	250
AKU 250 S	2	1,5	250	250	250	250	250	250	250	250	250
AKU 315 M	7	-	315	315	315	315	315	315	315	315	315
AKU 315 D	11	-	315	315	315	315	315	315	315	315	315
AKU 400 D	11	-	400	400	400	400	400	400	400	400	400
AKU 400 S	11	-	400	400	400	400	400	400	400	400	400

### Accessories



# AKU

## AKU 125 M



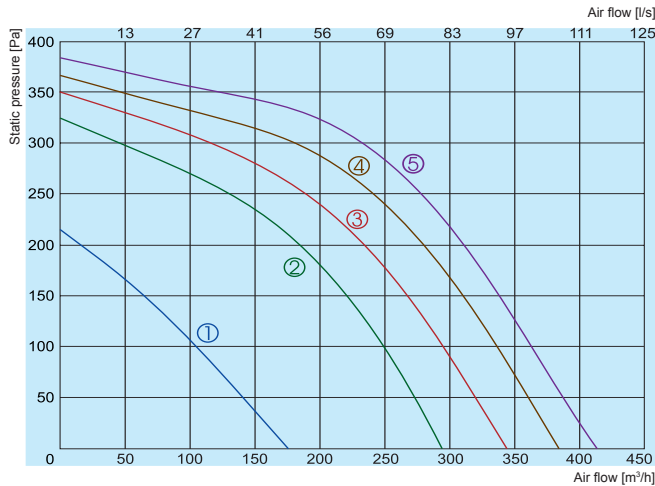
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 125 M

LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	55	48	43	48	50	43	37
Outlet	67	47	52	57	64	62	48
Surrounding	45	33	34	37	41	36	26

Measured at 181 m³/h, 132 Pa

## AKU 125 D



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

### 125 D

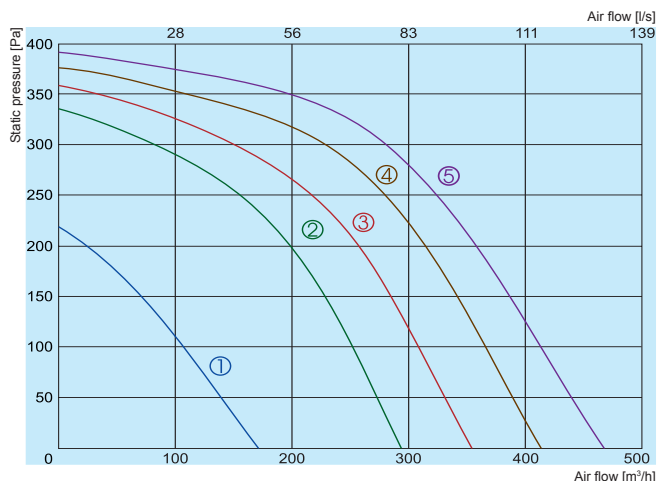
LWA total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	61	56	50	55	52	51	47
Outlet	74	53	56	63	70	69	60
Surrounding	51	40	39	43	45	44	38

Measured at 288 m³/h, 231 Pa

		AKU 125 M	AKU 125 D
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230
Power consumption	[kW]	0,075	0,120
Current	[A]	0,33	0,53
Speed	[min <sup>-1</sup> ]	2335	2480
Max. airflow	[m³/h]	258	411
Min./Max. air temperature	[°C]	-25/60	-25/65
Weight	[kg]	12,0	13,0
Wiring diagram		No. 2	No. 1
Protection class:	motor	IP-44	IP-44
	terminal box	IP-55	IP-55
Impeller		forward curved	forward curved
Inlet		single	single
Comply with ERP 2013		+	+

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.

## AKU 160 M



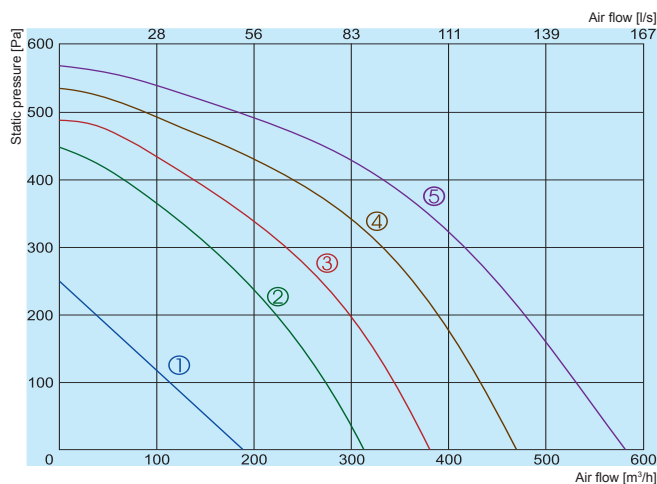
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 160 M

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	65	58	57	59	55	56	58	54
Outlet	76	55	62	66	72	71	67	64
Surrounding	54	42	46	47	48	47	46	43

Measured at 383 m³/h, 149 Pa

## AKU 160 D



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

### 160 D

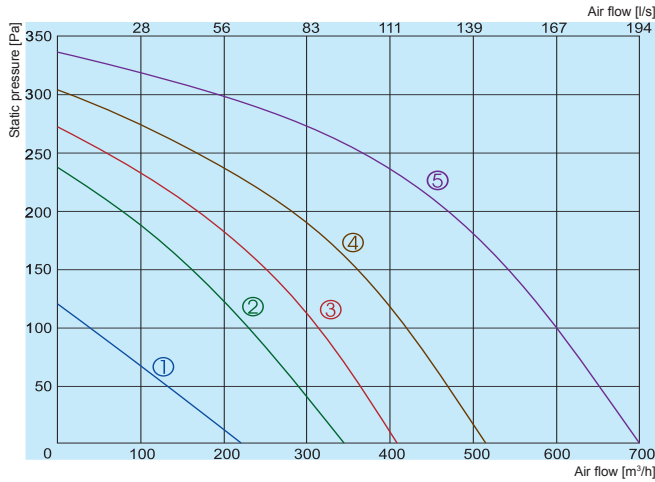
	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	67	59	56	61	58	58	59	55
Outlet	79	57	61	70	75	75	69	66
Surrounding	57	43	45	50	51	50	47	45

Measured at 492m³/h, 179 Pa

		AKU 160 M	AKU 160 D
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230
Power consumption	[kW]	0,135	0,215
Current	[A]	0,59	0,93
Speed	[min <sup>-1</sup> ]	2480	2130
Max. airflow	[m³/h]	465	583
Min./Max. air temperature	[°C]	-25/65	-25/65
Weight	[kg]	13,0	14,0
Wiring diagram		No. 1	No. 1
Protection class:	motor	IP-44	IP-44
	terminal box	IP-55	IP-55
Impeller		forward curved	forward curved
Inlet		single	single
Comply with ERP 2013		+	+

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.

## AKU 200 M



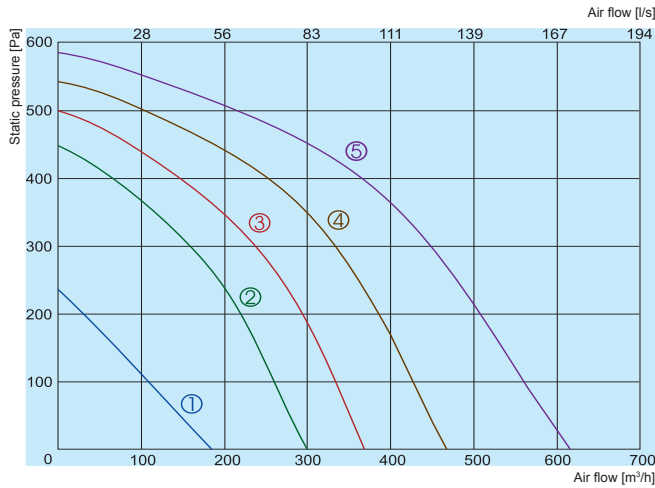
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 200 M

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	63	57	50	55	56	55	50
Outlet	73	56	58	62	69	68	61
Surrounding	52	42	40	43	47	45	40

Measured at 575m³/h, 122 Pa

## AKU 200 D



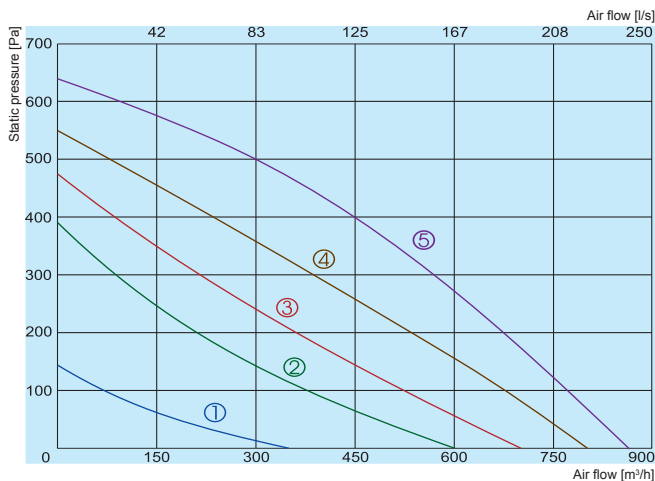
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 200 D

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	69	59	60	62	62	61	57
Outlet	78	55	63	69	74	72	66
Surrounding	56	41	47	49	51	49	45

Measured at 516 m³/h, 183 Pa

## AKU 200 S



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

### 200 S

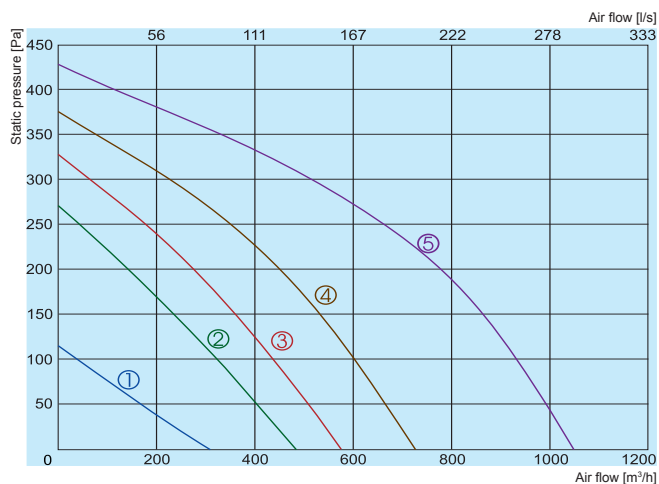
Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	64	54	61	57	54	52	52
Outlet	80	56	66	77	74	72	63
Surrounding	57	41	50	53	49	46	43

Measured at 755 m³/h, 117 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.

		AKU 200 M	AKU 200 D	AKU 200 S
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230	~1, 230
Power consumption	[kW]	0,167	0,239	0,145
Current	[A]	0,72	1,04	0,64
Speed	[min <sup>-1</sup> ]	1550	2130	2510
Max. airflow	[m <sup>3</sup> /h]	697	611	870
Min./Max. air temperature	[°C]	-25/55	-25/65	-25/70
Weight	[kg]	17,0	13,0	26,0
Wiring diagram		No. 1	No. 1	No. 1
Protection class:	motor	IP-44	IP-44	IP-44
	terminal box	IP-55	IP-55	IP-55
Impeller		forward curved	forward curved	backwards curved
Inlet		double	single	single
Comply with ERP 2013		+	+	+

## AKU 250 M



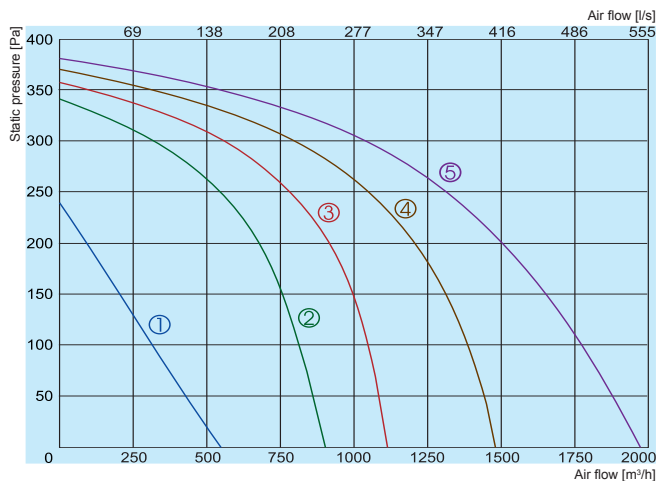
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 250 M

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	69	61	60	60	58	66	59	53
Outlet	82	59	64	70	72	80	70	65
Surrounding	59	45	48	49	49	56	48	43

Measured at 937 m<sup>3</sup>/h, 100 Pa

## AKU 250 D



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

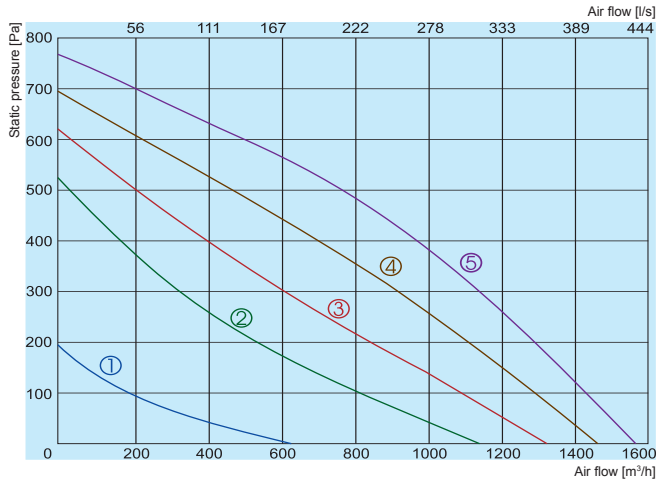
### 250 D

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	65	58	59	54	57	55	56	50
Outlet	79	59	65	73	75	71	71	63
Surrounding	57	45	49	50	51	47	48	42

Measured at 1380 m<sup>3</sup>/h, 241 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.

## AKU 250 S



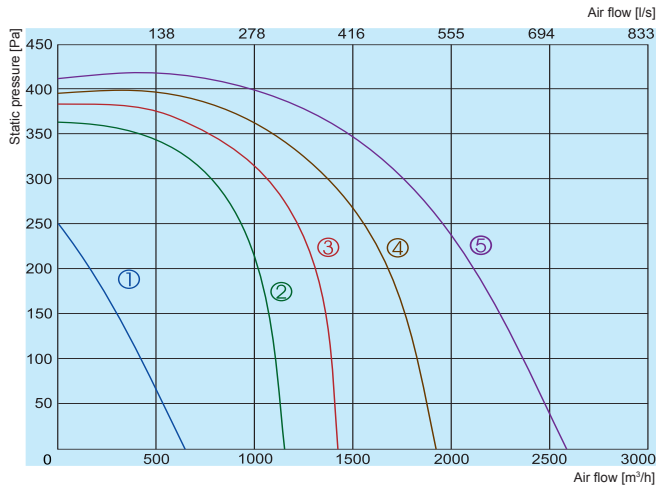
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 250 S

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	68	56	65	58	59	57	55
Outlet	81	67	73	77	75	72	69
Surrounding	59	47	55	52	51	48	44

Measured at 1349 m³/h, 161 Pa

## AKU 315 M



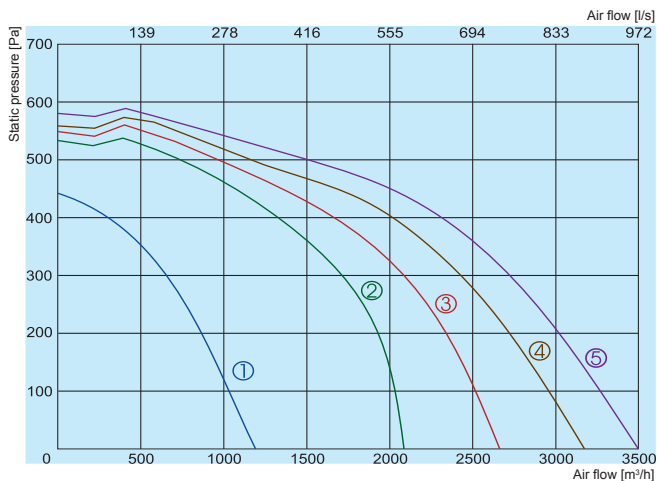
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 315 M

Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	71	66	66	59	60	61	54
Outlet	82	65	71	78	77	73	65
Surrounding	60	51	55	53	53	50	44

Measured at 2304 m³/h, 130 Pa

## AKU 315 D



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

### 315 D

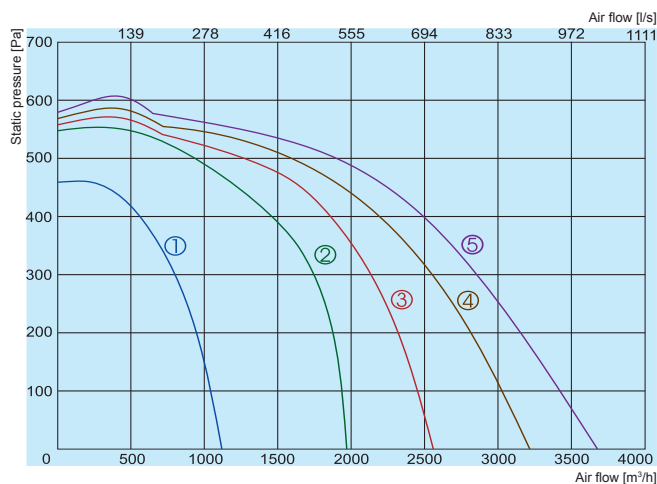
Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	73	65	67	61	65	64	58
Outlet	87	67	75	82	82	79	71
Surrounding	64	52	57	56	58	55	49

Measured at 3057 m³/h, 192 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.

		AKU 250 M	AKU 250 D	AKU 250 S	AKU 315 M	AKU 315 D
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230	~1, 230	~1, 230	~1, 230
Power consumption	[kW]	0,265	0,545	0,310	0,950	1,505
Current	[A]	1,15	2,56	1,35	4,79	6,61
Speed	[min <sup>-1</sup> ]	2082	1190	2665	1210	1290
Max. airflow	[m <sup>3</sup> /h]	1045	1976	1563	2596	3499
Min./Max. air temperature	[°C]	-25/40	-25/40	-25/60	-25/40	-25/40
Weight	[kg]	18,0	39,0	37,0	47,0	63,0
Wiring diagram		No. 2	No. 3	No. 2	No. 3	No. 3
Protection class:	motor	IP-44	IP-54	IP-44	IP-54	IP-54
	terminal box	IP-55	IP-55	IP-55	IP-55	IP-55
Impeller		forward curved	forward curved	backwards curved	forward curved	forward curved
Inlet		double	single	single	single	single
Comply with ERP 2013		+	-	+	+	+

## AKU 400 D



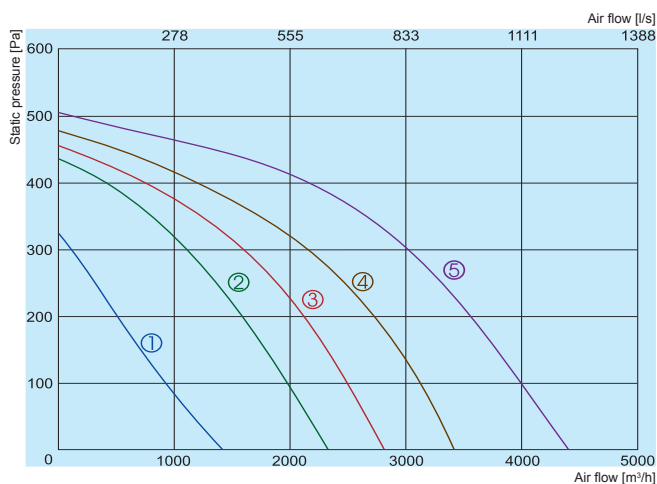
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 400 D

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	76	69	69	64	69	69	67	63
Outlet	89	70	78	84	83	82	81	75
Surrounding	66	55	60	58	60	59	57	53

Measured at 3259 m<sup>3</sup>/h, 161 Pa

## AKU 400 S



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

### 400 S

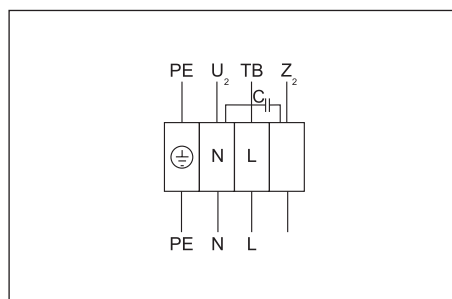
	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	80	71	74	69	71	74	73	66
Outlet	91	74	81	83	86	85	81	75
Surrounding	71	58	64	66	63	62	60	55

Measured at 3884 m<sup>3</sup>/h, 124 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.

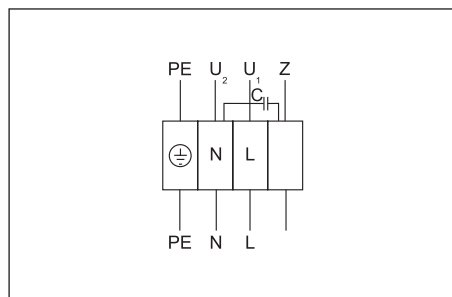


		AKU 400 D	AKU 400 S
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230
Power consumption	[kW]	1,720	1,40
Current	[A]	7,63	6,14
Speed	[min <sup>-1</sup> ]	1290	1150
Max. airflow	[m <sup>3</sup> /h]	3664	4391
Min./Max. air temperature	[°C]	-25/40	-25/40
Weight	[kg]	63,0	70,0
Wiring diagram		No. 3	No. 4
Protection class:	motor	IP-54	IP-54
	terminal box	IP-55	IP-55
Impeller		forward curved	backwards curved
Inlet		single	double
Comply with ERP 2013		+	+



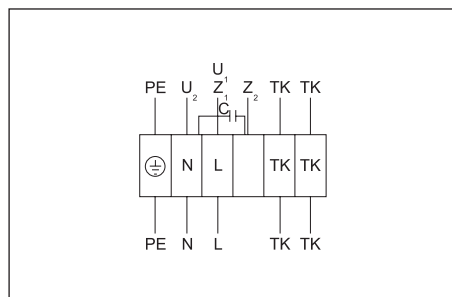
**Wiring diagram No. 1 (1~230V)**

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



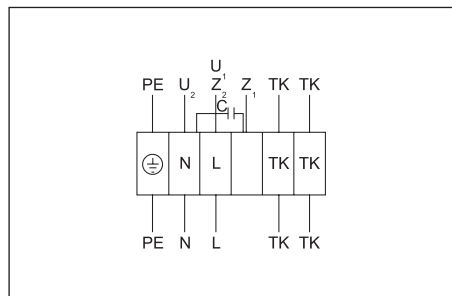
**Wiring diagram No. 2 (1~230V)**

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



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

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



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

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