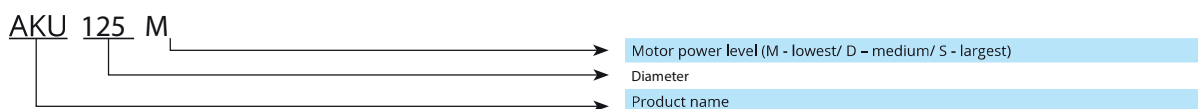




CIRCULAR DUCT FANS

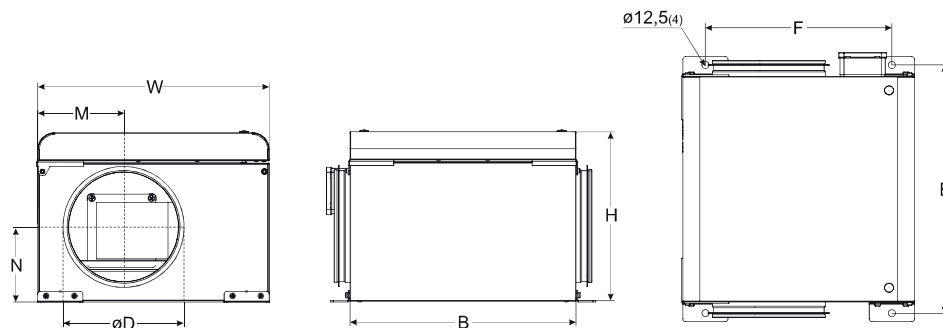
Features	<ul style="list-style-type: none"> <li>› Diameter -125 mm to 400 mm;</li> <li>› Airflow up to 4390 m<sup>3</sup>/h;</li> <li>› Easily mounted in any position;</li> <li>› Backward or forward-curved impeller;</li> <li>› Cost-effective;</li> <li>› Acoustically insulated.</li> </ul>
Power supply	230V/50Hz/1f.
Temperature range	From -25 °C up to 40/65°C, depending on size.
Sizes	125, 160, 200, 250, 315, 400.
Construction	<ul style="list-style-type: none"> <li>› Casing: galvanized sheet steel;</li> <li>› Acoustic and thermal wall insulation – 50mm;</li> <li>› Fan: centrifugal impeller and external rotor motor;</li> <li>› Motor protection with built-in thermal-contact (only for fans with TK terminals);</li> <li>› Motor protection class: IP44/ IP54;</li> <li>› Terminal box protection class: IP55.</li> </ul>
Installation	<ul style="list-style-type: none"> <li>› Mounting with ducts: Spiro, flexible aluminium or plastic.</li> <li>› Device can only be used indoors.</li> <li>› Not suitable for polluted air or volatile and explosive gases.</li> </ul>
Speed control options	<ul style="list-style-type: none"> <li>› Electronic voltage controller (phase cut);</li> <li>› Voltage controlled speed controller.</li> </ul>



## Accessories

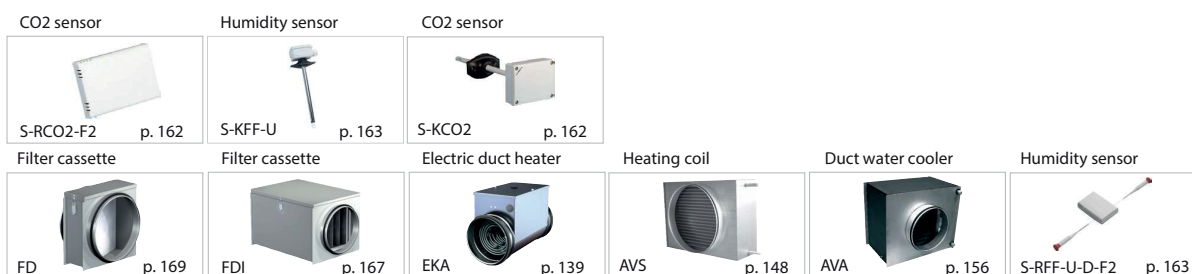
<p>Single phase speed controller</p> <p>TGRV p. 127</p>	<p>Single phase speed controller</p> <p>ETY/MTY p. 128</p>	<p>Mounting clamp</p> <p>AP p. 189</p>	<p>Guard grille</p> <p>AGO p. 181</p>	<p>Back draft shutter</p> <p>RSK p. 177</p>	<p>Circular duct silencer</p> <p>AKS p. 174</p>
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The company reserves the right to make changes of technical data without prior notice



Type	Dimensions [mm]							
	B	W	H	M	N	øD	E	F
AKU 125 M/D	400	410	300	133	171,5	125	440	330
AKU 160 M/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	238	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

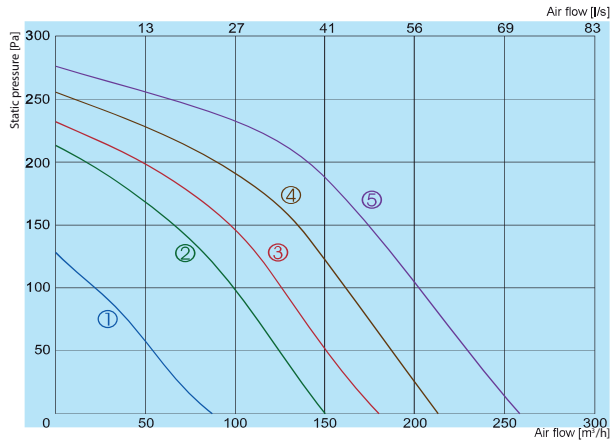
Type	Accessories										
	TGRV	ETY/MTY	S-RCO2-F2 S-KCO2	S-RFF-U-D-F2 S-KFF-U	AP AGO	RSK	AKS	FD FDI	EKA	AVS	AVA
AKU 125 M/D	1,5	1,5	+	+	125	125	125	125	125	125	125
AKU 160 M/D	1,5	1,5	+	+	160	160	160	160	160	160	160
AKU 200 M/D/S	1,5	1,5	+	+	200	200	200	200	200	200	200
AKU 250 M	2	1,5	+	+	250	250	250	250	250	250	250
AKU 250 D	4	4	+	+	250	250	250	250	250	250	250
AKU 250 S	2	1,5	+	+	250	250	250	250	250	250	250
AKU 315 M	7	-	+	+	315	315	315	315	315	315	315
AKU 315 D	11	-	+	+	315	315	315	315	315	315	315
AKU 400 D/S	11	-	+	+	400	400	400	400	400	400	400



CIRCULAR DUCT FANS

# AKU

## AKU 125 M



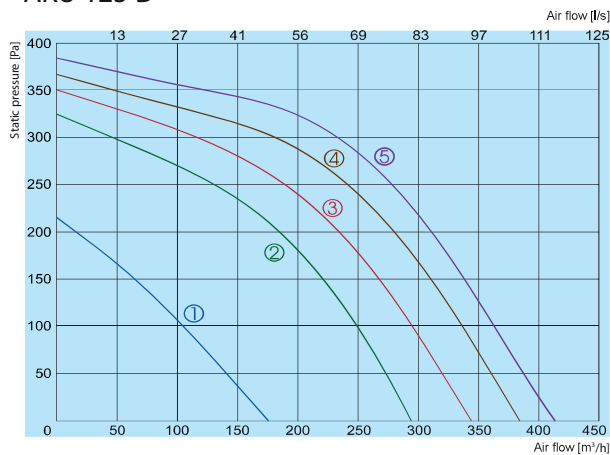
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 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	44	37
Outlet	67	47	52	57	64	62	56	48
Surrounding	45	33	34	37	41	36	33	26

Measured at 181 m<sup>3</sup>/h, 132 Pa

## AKU 125 D



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

### 125 D

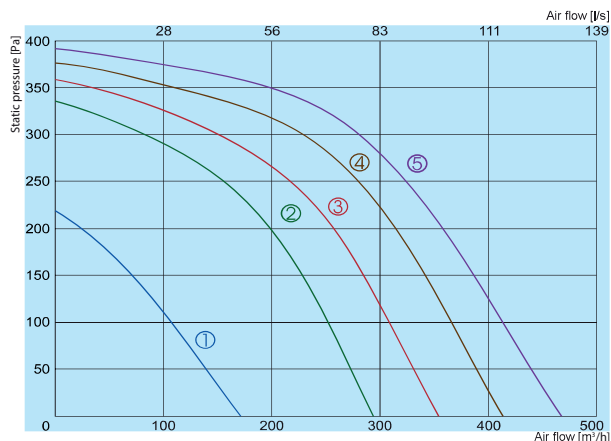
Lwa total, dB(A)	Lwa, dB(A)							
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Inlet	61	56	50	55	52	52	51	47
Outlet	74	53	56	63	70	69	65	60
Surrounding	51	40	39	43	45	44	41	38

Measured at 288 m<sup>3</sup>/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
Capacitor	[µF]	2	4
Max. airflow	[m <sup>3</sup> /h]	258	411
Min./Max. air temperature	[°C]	-20/70	-20/65
Weight	[kg]	11,9	13,5
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		2016	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.

## AKU 160 M



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

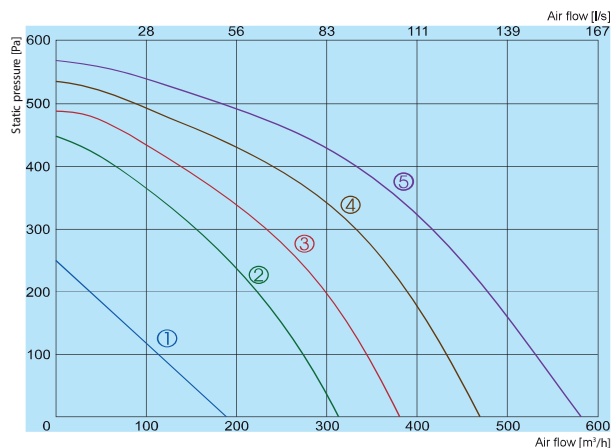
### 160 M

Inlet  
Outlet  
Surrounding

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

Measured at 383 m<sup>3</sup>/h, 149 Pa

## AKU 160 D



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

### 160 D

Inlet  
Outlet  
Surrounding

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

Measured at 492m<sup>3</sup>/h, 179 Pa

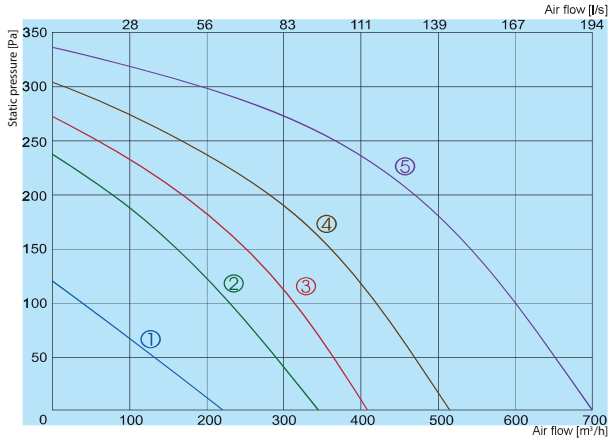
CIRCULAR DUCT FANS

		AKU 160 M	AKU 160 D
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230
Power consumption	[kW]	0,135	0,278
Current	[A]	0,59	1,20
Speed	[min <sup>-1</sup> ]	2480	2647
Capacitor	[µF]	4	5
Max. airflow	[m <sup>3</sup> /h]	465	583
Min./Max. air temperature	[°C]	-20/65	-40/50
Weight	[kg]	13,6	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		2016	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.

# AKU

## AKU 200 M



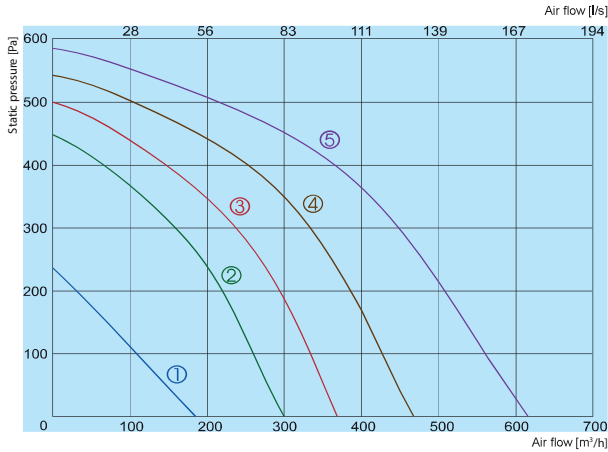
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 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 575 m<sup>3</sup>/h, 122 Pa

## AKU 200 D



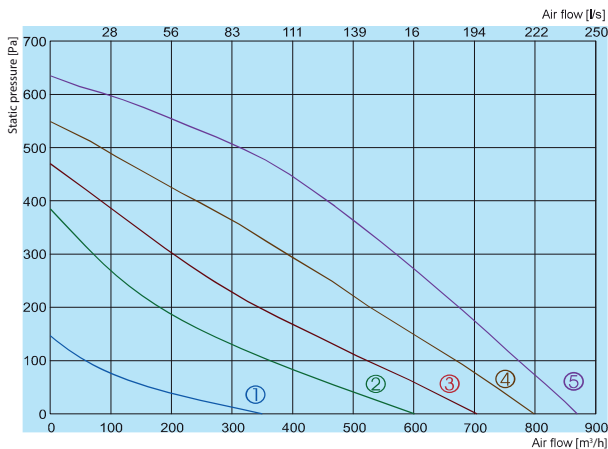
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 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	70	66
Surrounding	56	41	47	49	51	49	45

Measured at 516 m<sup>3</sup>/h, 183 Pa

## AKU 200 S



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

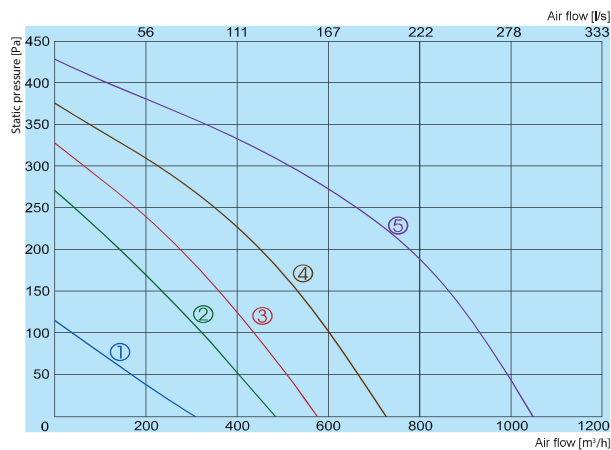
### 200 S

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	67
Surrounding	57	41	50	53	49	46	43

Measured at 755 m<sup>3</sup>/h, 117 Pa

		AKU 200 M	AKU 200 D	AKU 200 S
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230	~1, 230
Power consumption	[kW]	0,167	0,278	0,145
Current	[A]	0,72	1,20	0,64
Speed	[min <sup>-1</sup> ]	1550	2647	2510
Capacitor	[µF]	4	5	4
Max. airflow	[m <sup>3</sup> /h]	697	611	870
Min./Max. air temperature	[°C]	-20/55	-20/65	-20/75
Weight	[kg]	17,3	13,7	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	forward curved
Inlet		double	single	single
Comply with ERP		2016	-	-

## AKU 250 M



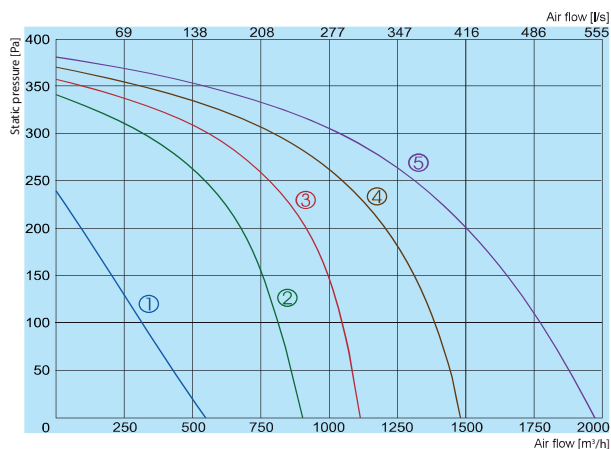
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 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

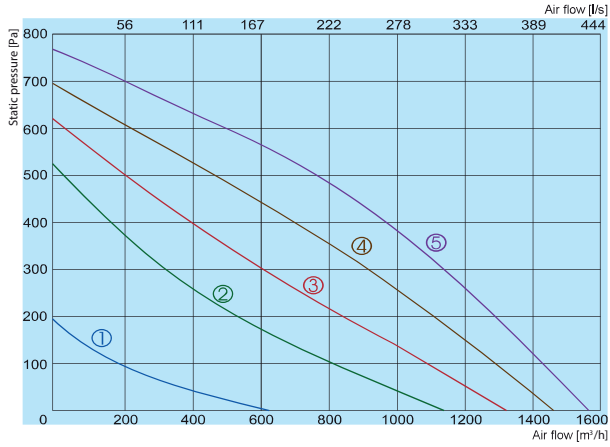
### 250 D

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

# AKU

## AKU 250 S



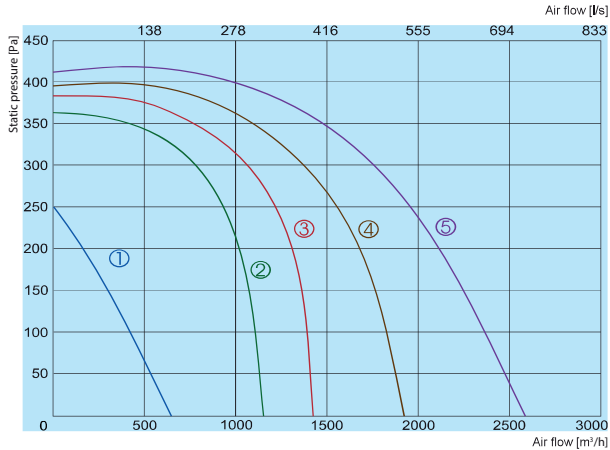
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 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	64
Surrounding	59	47	55	52	51	48	44

Measured at 1349 m<sup>3</sup>/h, 161 Pa

## AKU 315 M



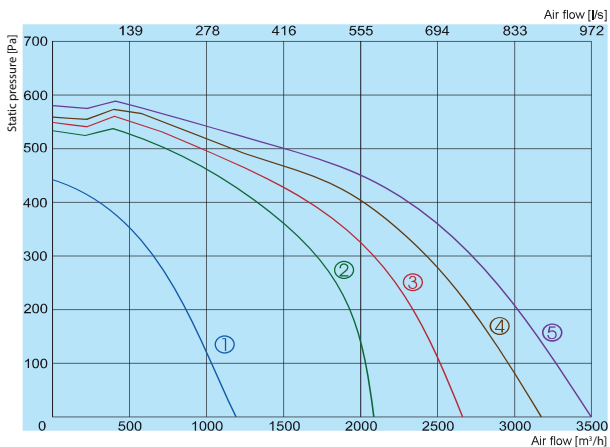
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 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 m<sup>3</sup>/h, 130 Pa

## AKU 315 D



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

### 315 D

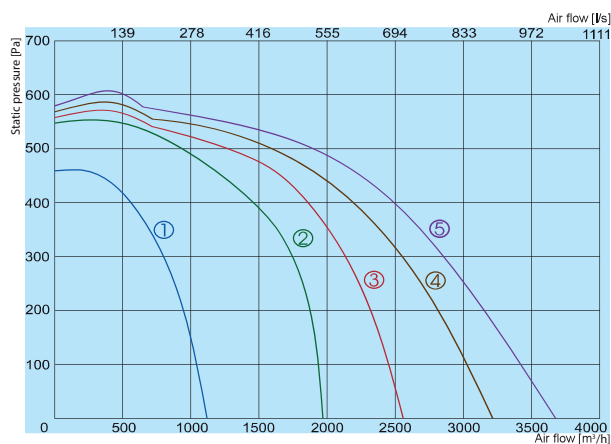
Lwa total, dB(A)	Lwa, dB(A)						
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	73	65	67	61	65	64	58
Outlet	87	67	75	82	82	79	71
Surrounding	64	52	57	56	58	55	49

Measured at 3057 m<sup>3</sup>/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
Capacitor	[μF]	5	10	10	16	35
Max. airflow	[m <sup>3</sup> /h]	1045	1976	1563	2596	3499
Min./Max. air temperature	[°C]	-20/40	-20/40	-20/60	-20/40	-20/40
Weight	[kg]	17,0	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	backward curved	forward curved	forward curved
Inlet		double	single	single	single	single
Comply with ERP		-	-	-	-	-

## AKU 400 D



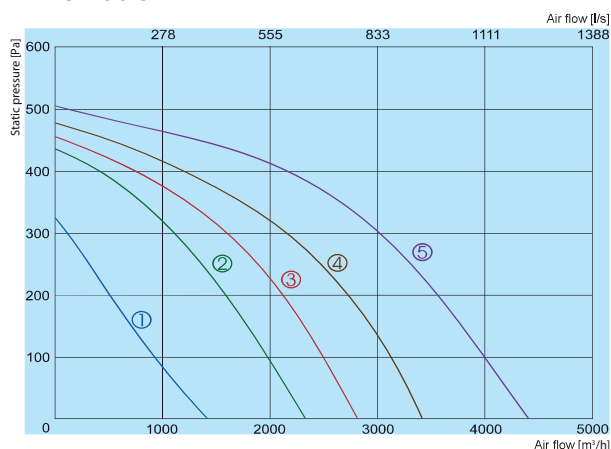
- ① 80V
- ② 120V
- ③ 140V
- ④ 170V
- ⑤ 230V

### 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

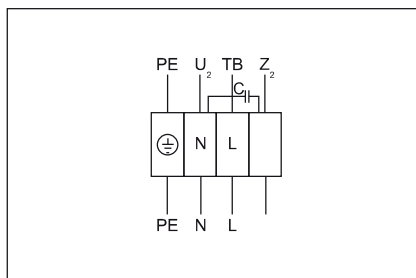
Lwa total, dB(A)	Lwa, dB(A)							
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Inlet	80	71	74	69	71	74	73	66
Outlet	91	74	81	83	86	85	81	75
Surrounding	71	58	64	66	63	62	60	55

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.

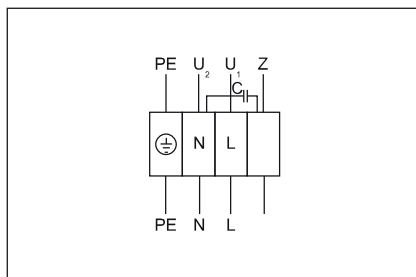


		AKU 400 D	AKU 400 S
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230
Power consumption	[kW]	1,720	1,40
Current	[A]	7,63	6,14
Speed	[min <sup>-1</sup> ]	1290	1500
Capacitor	[μF]	4	5
Max. airflow	[m <sup>3</sup> /h]	3664	4391
Min./Max. air temperature	[°C]	-20/40	-20/40
Weight	[kg]	63,0	70,0
Wiring diagram		No. 3	No. 4
Protection class:	motor	IP-54	IP-54
	terminal box	IP-55	IP-55
Impeller		forward curved	backward curved
Inlet		single	double
Comply with ERP		-	-



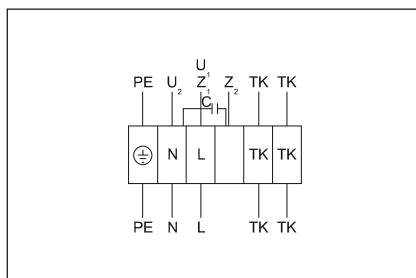
Wiring diagram No. 1 (1~230V)

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



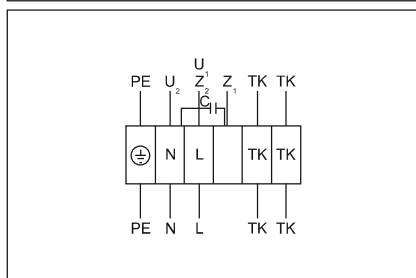
Wiring diagram No. 2 (1~230V)

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