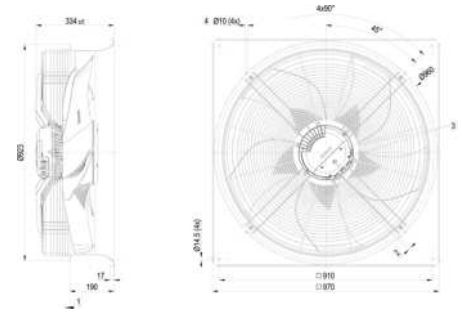


KARTA KATALOGOWA

W3G800-KS39-03

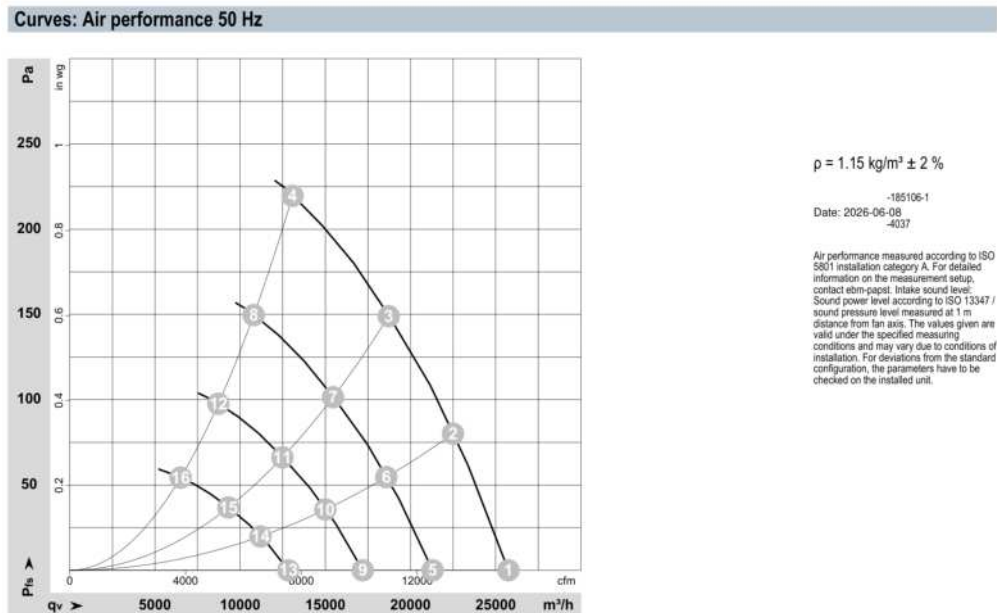
Wentylator osiowy EC na płycie montażowej AxiBlade, łopatki sierpowe (seria S), z kwadratową pełną dyszą

Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	3~ 400 V (380...480 V)	Wielkość	800 mm
Częstotliwość	50/60 Hz	Silnik	M3G150-FF
Prędkość obrotowa	940 obr/min	Materiał wirnika	tworzywo PP
Pobór mocy	1950 W	Obudowa	blacha stalowa ocynkowana, powlekana czarnym tworzywem (RAL 9005)
Pobór prądu	3,1 A	Obudowa elektroniki	odlew aluminiowy malowany na szaro
Maks. przeciwnieśnienie	220 Pa	Kratka ochronna	stal powlekana czarnym tworzywem (RAL 9005)
Temperatura otoczenia	-40...+60 °C	Liczba łopatek	5
Regulacja obrotów	MODBUS RTU	Kierunek obrotów	w prawo, patrząc na wirnik
Dane ErP (UE 327/2011)		Stopień ochrony	IP55
Sprawność całkowita	50,7 %	Klasa izolacji	F
Przepływ w pkt. optymalnym	16655 m³/h	Zabezpieczenie silnika	ochrona przed odwrotną polaryzacją i zablokowaniem wirnika
Przyrost ciśnienia	181 Pa	Łożyskowanie	kulkowe
Regulacja prędkości (ErP)	tak	Podłączenie	skrzynka zaciskowa
		Masa	41,9 kg

Charakterystyka przepływowa (50 Hz)



Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199
biuro@luftberg.pl · www.luftberg.pl

W3G800-KS39-03

EC axial panel fan - AxiBlade

sickle-shaped blades (S series)

with square full nozzle

ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Nominal data

Type	W3G800-KS39-03	
Motor	M3G150-FF	

Phase		3~
Nominal voltage	VAC	400
Nominal voltage range	VAC	380 .. 480
Frequency	Hz	50/60

Method of obtaining data		ml
Speed (rpm)	min ⁻¹	940
Power consumption	W	1950
Current draw	A	3.1
Max. back pressure	Pa	220
Max. back pressure	in. wg	0.88
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Occasional start-up at temperatures between -40 °C and -25 °C is permitted. For continuous operation at ambient temperatures below -25 °C (such as refrigeration applications), a fan design with special low-temperature bearings must be used.

Data according to Commission Regulation (EU) 327/2011 (prEN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	50.7	35.2	09 Power consumption P_{ed}	kW	1.75
02 Measurement category		A		09 Air flow q_v	m ³ /h	16655
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	181
04 Efficiency grade N		55.5	40	10 Speed (rpm) n	min ⁻¹	945
05 Variable speed drive		Yes		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

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The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings). The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again.

The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).

W3G800-KS39-03

EC axial panel fan - AxiBlade

sickle-shaped blades (S series)

with square full nozzle

Technical description

Weight	41.9 kg
Size	800 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted gray
Impeller material	PP plastic
Fan housing material	Sheet steel, galvanized and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Blade pitch	0°
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Operation and alarm display with LED - External 15-50 VDC input (parameterization) - Alarm relay - Integrated PI controller - Configurable inputs/outputs (I/O) - MODBUS V6.3 - Motor current limitation - RS-485 MODBUS-RTU - Soft start - Voltage output 3.3-24 VDC, Pmax = 800 mW - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
Power Factor Correction (PFC)	Passive (through low-capacitance DC link)
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-3 (household environment), except EN 61000-3-2 for professionally used equipment with a total rated power greater than 1 kW
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box
Motor protection	Reverse polarity and locked-rotor protection

W3G800-KS39-03

EC axial panel fan - AxiBlade

sickle-shaped blades (S series)
with square full nozzle

Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 61800-5-1; CE; UKCA
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1

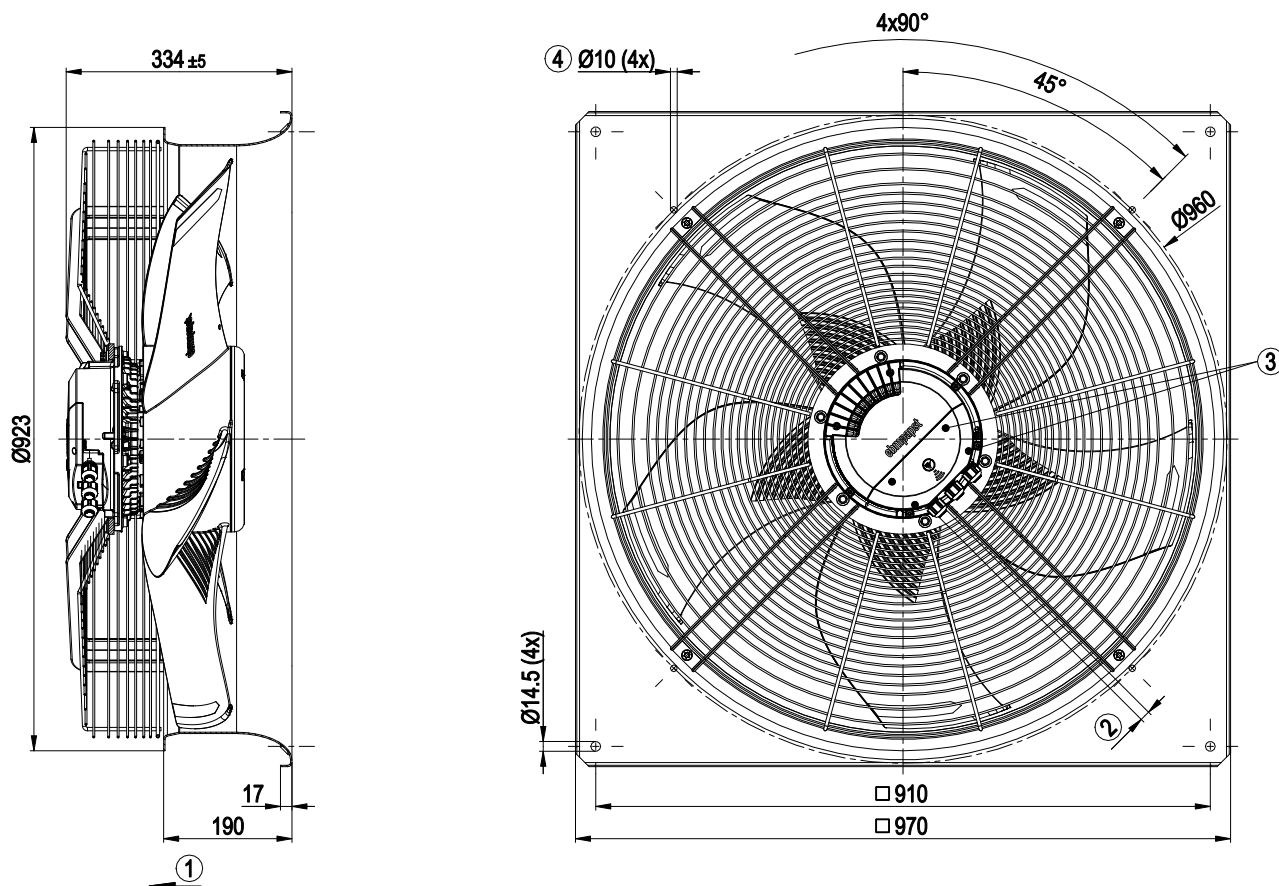
W3G800-KS39-03

EC axial panel fan - AxiBlade

sickle-shaped blades (S series)

with square full nozzle

Product drawing



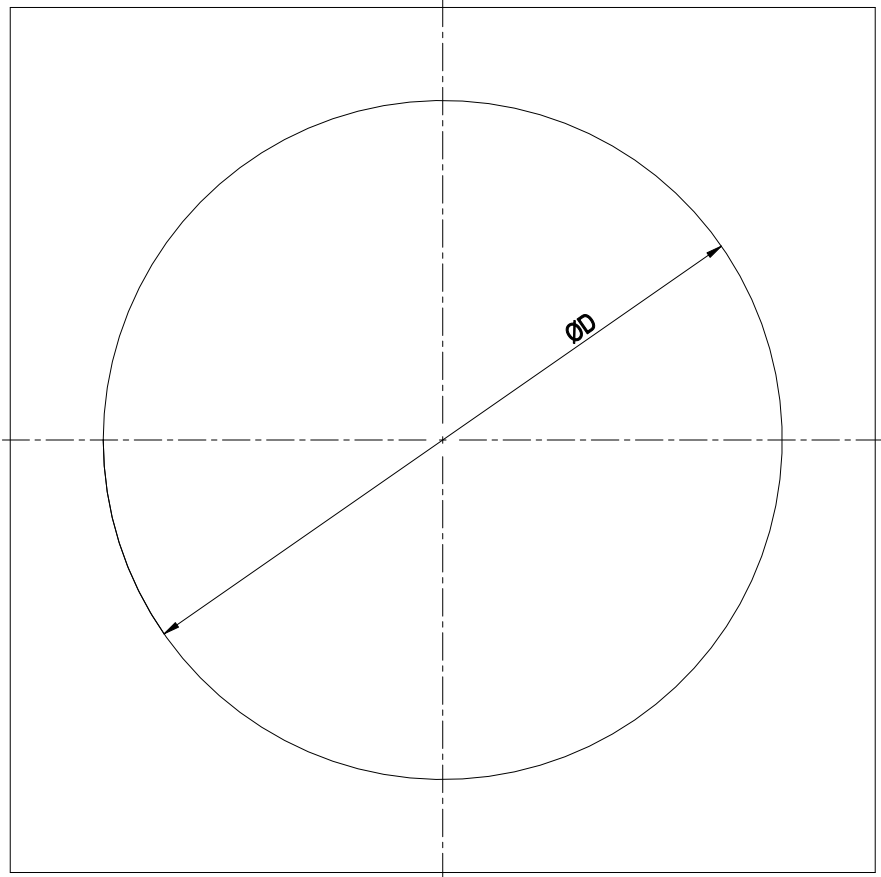
1	Airflow direction "V"
2	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm (The tightening torque is designed for PVC cables. If the cable materials are different, the tightening torque may have to be adjusted)
3	Tightening torque 1.5 ± 0.2 Nm
4	Attachment holes for FlowGrid (80000-2-2957 not included in scope of delivery)

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EC axial panel fan - AxiBlade

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with square full nozzle

Mounting dimensions



	Diameter of the necessary recess for mounting the fan housing in the end device
	BG630: D = Ø785 mm
	BG710: D = Ø830 mm
	BG800: D = Ø950 mm
	BG910: D = Ø1050 mm

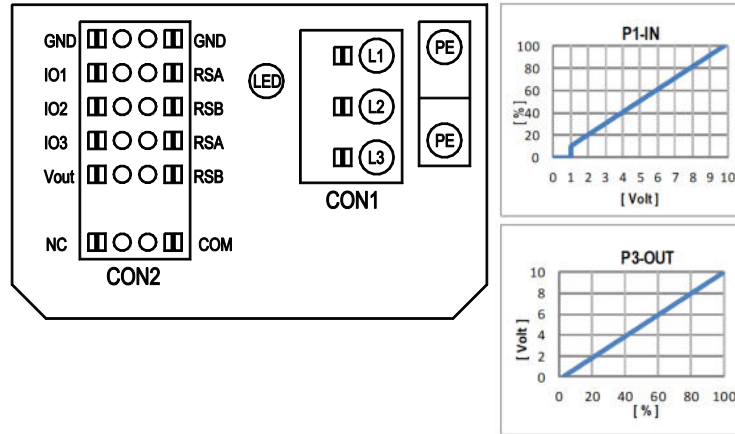
W3G800-KS39-03

EC axial panel fan - AxiBlade

sickle-shaped blades (S series)

with square full nozzle

Connection diagram



No.	Conn.	Designation	Function/assignment
	CON1	L1, L2, L3	Power supply, phase, see nameplate for voltage range
	PE	PE	Protective earth
	CON2	RSA	RS485 interface for MODBUS, RSA; SELV
	CON2	RSB	RS485 interface for MODBUS, RSB; SELV
	CON2	GND	Reference ground for control interface, SELV
	CON2	IO1	Function parameterizable (see "Optional interface functions" table) Factory setting: Digital input - high active, function: Disable input, SELV - inactive: Pin open or applied voltage < 1.5 VDC - active: applied voltage 3.5-50 VDC Reset function: Triggering of error reset on change of state from "enabled" to "disabled"
	CON2	IO2	Function parameterizable (see "Optional interface functions" table) Factory setting: Analog input 0-10 V / PWM, Ri=100 kΩ, function: Set value Characteristic curve parameterizable (see input characteristic curve P1-IN), SELV
	CON2	IO3	Function parameterizable (see "Optional interface functions" table) Factory setting: Analog output 0-10 V, max. 5 mA, function: Fan modulation level Characteristic curve parameterizable (see output characteristic curve P3-OUT), SELV
	CON2	Vout	Voltage output 3.3-24 VDC ±5%, Pmax=800 mW, voltage parameterizable Factory setting: 10 VDC short-circuit-proof, supply for external devices, SELV alternatively: 15-50 VDC input for parameterization via MODBUS without line voltage
	CON2	COM	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) / min. 10 mA, reinforced insulation on supply side and on control interface side
	CON2	NC	Status relay, floating status contact, break for failure
		LED	green: status = good, ready for operation orange: status = warning red: status = failure
		P1-IN	Input characteristic curve
		P3-OUT	Output characteristic curve

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EC axial panel fan - AxiBlade

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with square full nozzle

Terminal/plug assignment

○ configurable option																									
For further information and additional functions see EC Control Software, Fan-Set-App. or MODBUS Parameter Specification V6.3																									
CON2	configurable IO mode	electrical specification	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	D158 [0]	○	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]				
					active: applied voltage 3.5-50VDC, SELV	not active: pin open or applied voltage < 1.5VDC																			
					RI = 100k, characteristic curve parameterizable, f _{PWM} = 1k..10kHz SELV																				
					Umax = 50VDC, Imax = 20mA, SELV																				
					Umax = 50VDC, Imax = 20mA, SELV																				
					active: applied voltage 3.5-50VDC, SELV	not active: pin open or applied voltage < 1.5VDC																			
					RI = 100k, characteristic curve parameterizable, f _{PWM} = 1k..10kHz, SELV																				
					RI = 125R, characteristic curve parameterizable, SELV																				
					active: applied voltage 3.5-50VDC, SELV	not active: pin open or applied voltage < 1.5VDC																			
					RI = 100k, characteristic curve parameterizable, f _{PWM} = 1k..10kHz, SELV																				
					RI = 125R, characteristic curve parameterizable, SELV																				
					active: applied voltage 3.5-50VDC, SELV	not active: pin open or applied voltage < 1.5VDC																			
active: applied voltage < 1.5VDC, SELV	not active: pin open or applied voltage < 1.5VDC																								
active: pin open or applied voltage 3.5-50VDC	not active: applied voltage < 1.5VDC, SELV																								
active: applied voltage 3.5-50VDC	not active: pin open or applied voltage < 1.5VDC, SELV																								
function parameterizable, max. 5mA, max output frequency 300Hz, SELV	0-10V max. 5mA, max output frequency 300Hz SELV																								
0-10V max. 5mA, max output frequency 300Hz SELV	0-10V max. 5mA, max output frequency 300Hz SELV																								
MODBUS RTU, specification V6.3, SELV																									
RS485 bus connection,																									
voltage output																									
alternatively: Input auxiliary power supply for parameterization via RS485MODBUS RTU without line voltage																									

○ configurable option

For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3

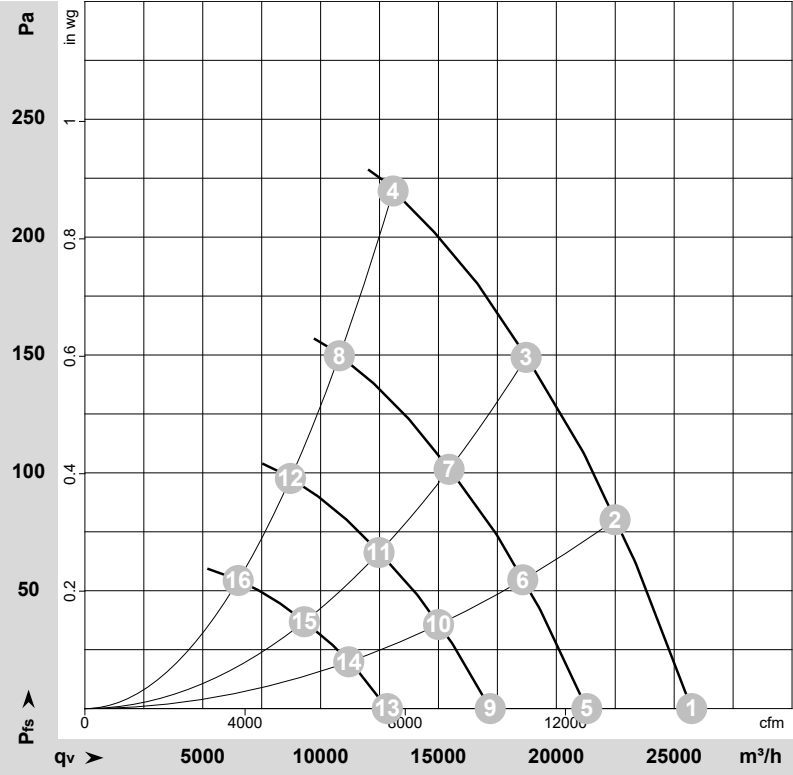
W3G800-KS39-03

EC axial panel fan - AxiBlade

sickle-shaped blades (S series)

with square full nozzle

Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

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Date: 2026-06-08
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Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	LwA _{out}	q _v	P _{fs}	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	400	50	940	1166	1.93	68	76	77	25740	0	15150	0.00
2	400	50	940	1457	2.35	67	74	75	22495	80	13240	0.32
3	400	50	940	1667	2.65	69	76	77	18720	150	11020	0.60
4	400	50	940	1950	3.10	79	86	88	13075	220	7695	0.88
5	400	50	780	660	1.09	64	71	72	21290	0	12530	0.00
6	400	50	780	821	1.32	62	69	70	18575	55	10935	0.22
7	400	50	780	938	1.49	65	71	72	15450	102	9095	0.41
8	400	50	780	1091	1.71	74	82	83	10795	150	6355	0.60
9	400	50	630	348	0.58	58	65	67	17195	0	10120	0.00
10	400	50	630	432	0.70	57	64	65	15005	36	8830	0.14
11	400	50	630	494	0.79	59	66	66	12480	66	7345	0.26
12	400	50	630	575	0.90	69	76	77	8720	98	5130	0.39
13	400	50	470	144	0.24	51	58	59	12830	0	7550	0.00
14	400	50	470	180	0.29	49	56	57	11195	20	6590	0.08
15	400	50	470	205	0.33	52	59	59	9310	37	5480	0.15
16	400	50	470	239	0.37	61	69	70	6505	54	3830	0.22

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
LwA_{out} = Sound power level outlet side · q_v = Air flow · p_{fs} = Pressure increase