

K 100E2

Centrifugal circular duct fan, <125W

Item Number: 1001

Variant: 230V 1~ 50Hz



- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Can be installed outdoors
- Maintenance-free and reliable

The K series is designed for installation in ducts. All the K-fans have minimum 25 mm long spigot connections.

The fans have backward-curved blades and external rotor motors. To simplify the installation the K-fan has a fixing bracket together with screws for mounting the bracket included as standard. The FK mounting clamp (as accessorie) prevents the transfer of vibration to the duct. The fans can be speed-controlled via a stepless thyristor or a 5-step transformer.

To protect the motor from overheating the fan is impedance protected.

The casing is manufactured from galvanised sheet steel and folded which gives the fan a close to air tight casing. Duct connected outdoor and wet room applications of the fan are possible due to the air tight casing. The K-fans have corrosion class C3...



Technical parameters

Norminal data		
Voltage (Nominal)	230	V
Frequency	50	Hz
Phase(s)	1~	
Input power	31	W
Input current	0.177	A
Impeller speed	2,407	r.p.m.
Air flow	max 0.05	m³/s
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C
Sound data		
Sound pressure level at 3m (20m² Sabin)	34	dB(A)

Protection/Classification

Enclosure class, motor	IP44
Insulation class	B

Data according to ErP

Energy class, Basic unit	F
Energy class, Local demand	D
ErP ready	ErP 2018

Dimensions and weights

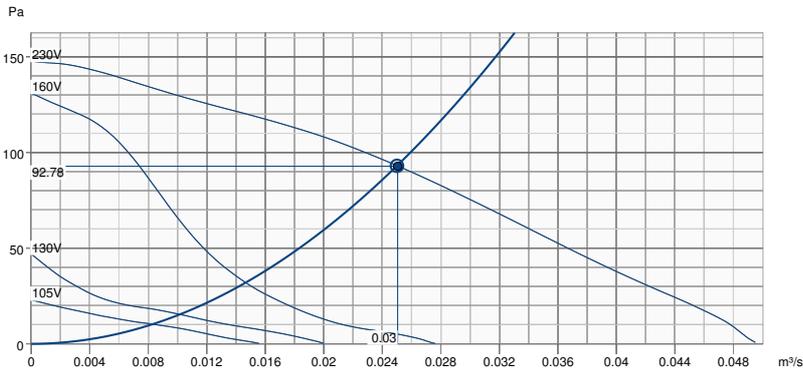
Duct dimension; Circular, inlet	100	mm
Duct dimension; Circular, outlet	100	mm
Weight	2.3	kg

Others

Duct connection type	Circular
Motor type	AC

Performance

Performance curve

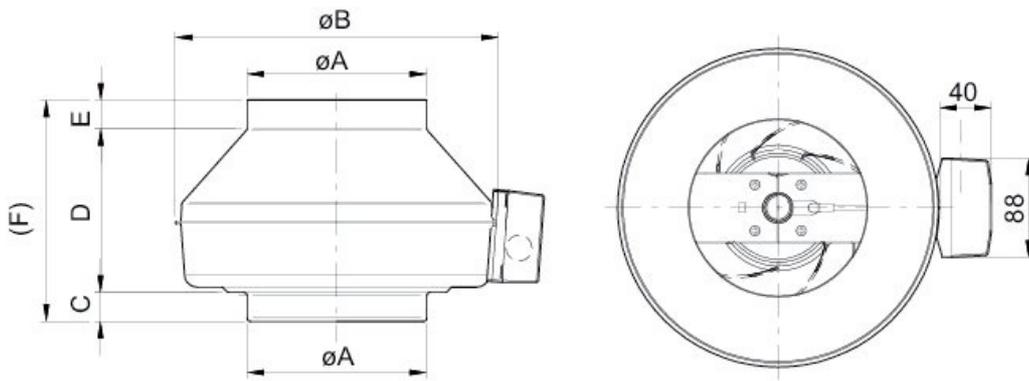


Hydraulic data

Required air flow	0.03 m³/s
Required static pressure	93 Pa
Working air flow	0.03 m³/s
Working static pressure	93 Pa
Air density	1.204 kg/m³
Power	28.8 W
Fan control - RPM	2498 rpm
Current	0.17 A
SFP	1.150 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	43	54	57	58	54	48	37	23	62
Outlet	dB(A)	48	49	56	53	51	44	34	23	59
Surrounding	dB(A)	17	16	21	36	38	30	18	13	41
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	34
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	20

Dimension

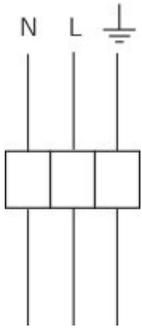


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ϕA	ϕB	C	D	E	F
99	218	26	166	26	218

Wiring

230V 1~



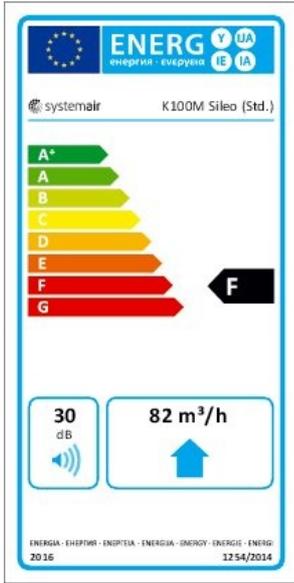
Ecodesign

Product		
Trade name	Systemair	
Product name	K 100 M Sileo	
Basic unit		
ErP compliance	2018	
SEC Average	-6.7	kWh/(m ² .a)
SEC Cold	-23.1	kWh/(m ² .a)
SEC Warm	2.7	kWh/(m ² .a)
SEC Class	F	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	83	m ³ /h
P max	28	W
Sound power level LWA	30	dB(A)
qv ref	0.016	m ³ /s
Ps ref	50	Pa
SPI	0.333	W/(m ³ /h)
CTRL	1	
MISC	1.1	
x-value	1.5	
External Leakage	0	%
AEC average	416.6	kWh
AHS Cold	416.6	kWh
AEC warm	416.6	kWh
AHS Average	1,715.2	kWh/a
AHS Cold	3,355.3	kWh/a
AHS Warm	775.6	kWh/a

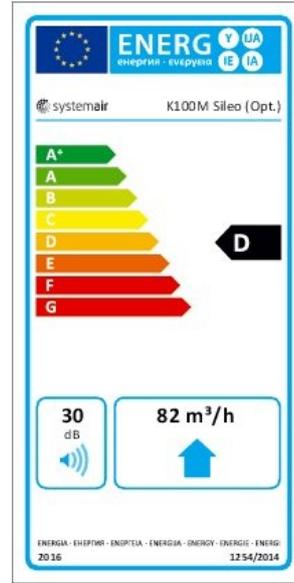
Units with local demand control		
ErP compliance		2018
SEC Average	-22.8	kWh/(m ² .a)
SEC Cold	-49.9	kWh/(m ² .a)
SEC Warm	-7.3	kWh/(m ² .a)
SEC Class		D
Unit category		RVU
Unit type		UVU
Drive		External MSD or VSD
Heat recovery type		None
Temperature ratio (UVU)		Not applicable
qv max	82	m ³ /h
P max	28	W
Sound power level LWA	30	dB(A)
qv ref	0.016	m ³ /s
Ps ref	50	Pa
SPI	0.333	W/(m ³ /h)
CTRL		0.65
MISC		1.1
x-value		1.5
External Leakage		0 %
AEC average	218.3	kWh
AEC cold	218.3	kWh
AEC warm	218.3	kWh
AHS Average	2,830	kWh/a
AHS Cold	5,536.2	kWh/a
AHS Warm	1,279.7	kWh/a

Energy class label

Energy class, Basic unit



Energy class, Local demand



Accessories

- FRQ5S-E-6A (37421)
- REE 1 Speed control (5314)
- REU 1.5 Speed control (5004)
- SG 100 Protection guard (5606)
- CO2RT-R-D Transmitter (6993)
- FRQS-E-6A (37419)
- IGK-100 Wall Grid (1630)
- RT 0-30 Room Thermostat (5151)
- CB 100-0,6 230V/1 Duct heater (5376)
- CBMF 100-0,6 230V/1 Duct heater (12241)
- FFR 100 Filter cassette (1766)
- FK 100 Fast clamp (1607)
- LDC 100-300 Silencer (8180)
- LDC 100-900 Silencer (5189)
- THB 160 Hood w. cover pl. Red (2034)
- THS 160 Hood w. cover pl. Red (2044)
- VBC 100-2 Water heating batt (5456)
- VBF 100 Water heating battery (1724)
- RE 1,5 Speed control (5000)
- REPT 6 Digital regulator (5698)
- REV-3POL/03 ON/OFF (33978)
- VKK-100 Back draft damper (1623)
- DTV500A (96807)
- HR1 Room Humidistat (215150)
- Presence detector/IR24-P (6995)
- CB 100-0,4 230V/1 Duct heater (5288)
- CBM 100-0,6 230V/1 Duct heater (5479)
- CWK 100-3-2,5 Duct cooler,circ (30019)
- FGR 100 Filter cassette (1802)
- LDC 100-1200 Silencer (5996)
- LDC 100-600 Silencer (5188)
- RSK-100 Back draft damper (5597)
- THB 160 Hood w.cover pl. black (1764)
- THS 160 Hood w.cover pl. black (1839)
- VBC 100-3 Water heating batt (9838)

Documents

- Fans_Operating and Maintenance_instr_202341_CE_multilingual.pdf
- K fan mounting.wmv

Specification