

K 100 XL sileo

Item no. 25360

Version: 60 Hz

Symbol



Description

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

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

The fans have backward-curved blades and external rotor motors. To simplify the installation the K Sileo fan has a fixing bracket together with screws for mounting the bracket included as standard. The FK mounting clamp facilitates easy installation and removal, and 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 has integral thermal contacts with manual reset.

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



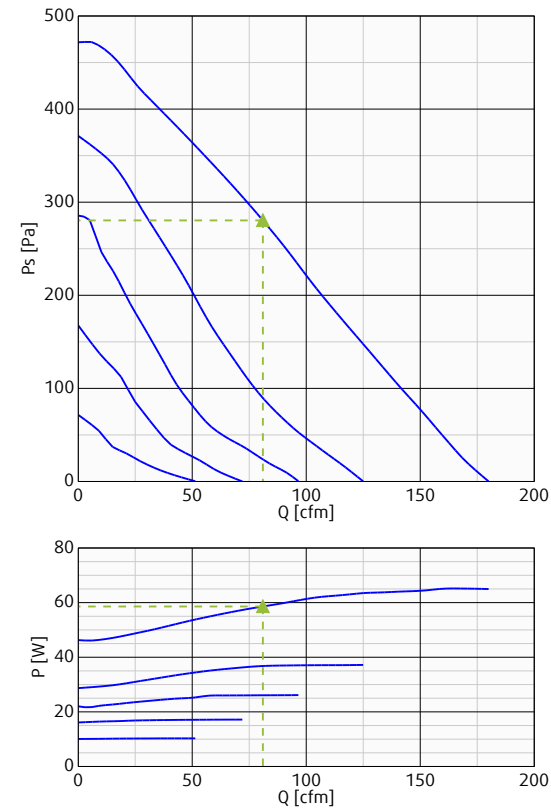
Technical parameters

Default group		
Voltage	230	V
Frequency	60	Hz
Phase	1	~
Input power (P1)	65.1	W
Current	0.288	A
Max. airflow	180	cfm
Fan impeller speed	2598	r.p.m.
Max. temperature of transported air	70	°C
Max. temperature of transported air when voltage-controlled	70	°C
Sound pressure level at 3 m (20m ² Sabine)	47.9	dB(A)
Weight	3	kg
Insulation class	B	
Enclosure class, motor	44	IP
Capacitor	1.5	µF

ErP		
Energy class, basic unit	E	
Energy class, basic unit option	C	
ErP ready	ErP 2016/ErP 2018	

Performance

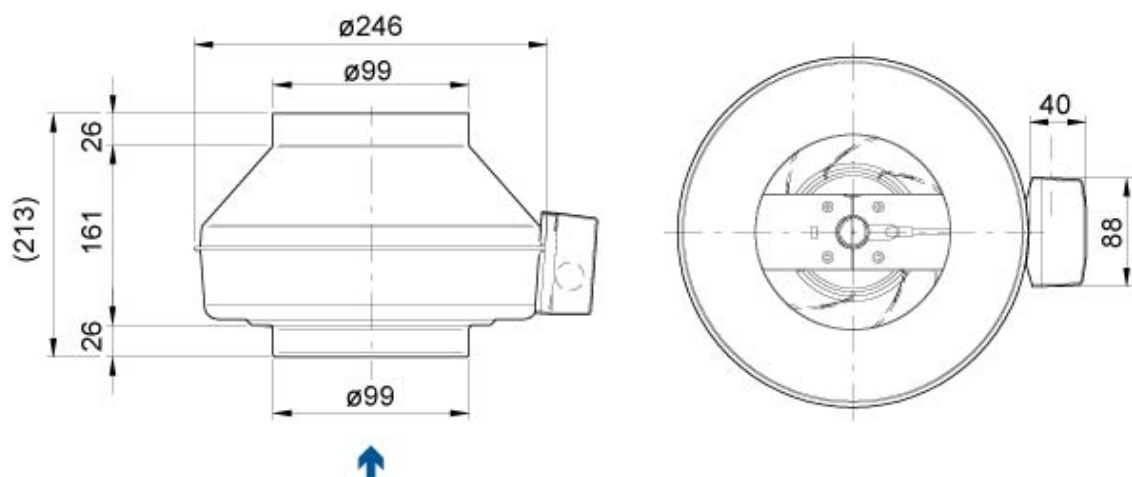
Performance



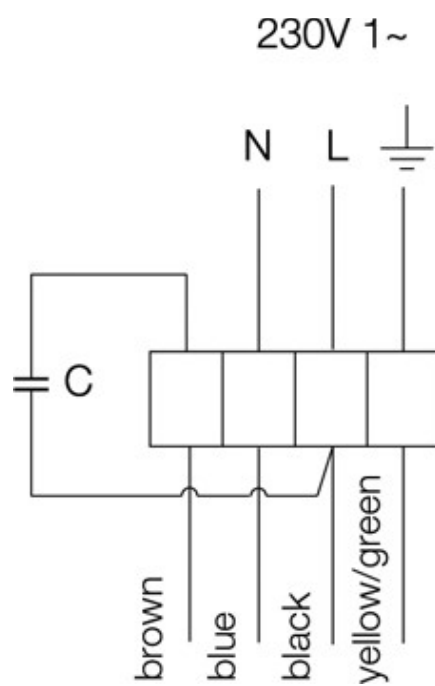
Max efficiency

Hydraulic data										
Air flow		81				cfm				
Static pressure		280				Pa				
Power		58.6				W				
Speed		2877				r.p.m.				
Current		0.26				A				
SFP		1.53				kW/(m³/s)				
Voltage		230				V				
Acoustic data		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	55	66	64	67	65	62	55	44	72
Outlet	dB(A)	54	65	60	65	64	61	54	42	71
Surrounding	dB(A)	26	29	34	52	50	48	41	28	55

Dimensions



Wiring



Accessories

Item no.	Name	Type
32293	RETP 6 Temp/Pressure regulator	Electric accessories
33978	REV-3POL/03 ON/OFF	Electric accessories
5000	RE 1,5 Speed control	Electric accessories
5004	REU 1.5 Speed control	Electric accessories
5044	DTV500-OEM incl connection kit	Electric accessories
5150	HR1 Room Humidistat IP21	Electric accessories
5151	RT 0-30 Room Thermostat	Electric accessories
5165	T 120 Timer	Electric accessories
5314	REE 1 Speed control	Electric accessories
5698	REPT 6 Digital regulator	Electric accessories
6993	CO2RT-R-D Transmitter	Electric accessories
6995	Presence detector/IR24-P	Electric accessories
1607	FK 100 Fast clamp	Accessories
1623	VKK-100 Back draft damper	Accessories
1630	IGK-100 Wall Grid	Accessories
1724	VBF 100 Water heating battery	Accessories
1764	THB 160 Hood w.cover pl. black	Accessories
1766	FFR 100 Filter cassette	Accessories
1802	FGR 100 Filter cassette G3	Accessories
1839	THS 160 Hood w.cover pl. black	Accessories
30019	CWK 100-3-2,5 Duct cooler,circ	Accessories
5188	LDC 100-600 Silencer	Accessories
5189	LDC 100-900 Silencer	Accessories
5288	CB 100-0,4 230V/1 Duct heater	Accessories
5376	CB 100-0,6 230V/1 Duct heater	Accessories
5456	VBC 100-2 Water heating batt	Accessories
5479	CBM 100-0,6 230V/1 Duct heater	Accessories
5597	RSK-100 Back draft damper	Accessories
5606	SG 100 Protection guard	Accessories
5636	VK-10 Louvre shutter	Accessories
8180	LDC 100-300 Silencer	Accessories
9838	VBC 100-3 Water heating batt	Accessories
37419	FRQS-E-6A	Electric accessories
37421	FRQSS-E-6A	Electric accessories

Eco design

Basic unit		
Trade name	Systemair	
Product name	K 100 XL Sileo	
ErP compliance	2016	
SEC Average	-10.2	kWh/ (m ² .a)
SEC Cold	-26.6	kWh/ (m ² .a)
SEC Warm	-0.801	kWh/ (m ² .a)
SEC Class	E	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	511	cfm
P max	64	W
Sound power	47	dB(A)
qv ref	356	cfm
Ps ref	50	Pa
SPI	0.8	kW/ (m ³ /s)
CTRL	1	-
MISC	1.1	-
x-value	1.5	-
External Leakage	0.03	%
AEC average	278	kWh
AEC cold	278	kWh
AEC warm	278	kWh
AHS Average	1715	kWh/a
AHS Cold	3355	kWh/a
AHS Warm	776	kWh/a

Units with local demand control		
Trade name	Systemair	
Product name	K 100 XL Sileo	
ErP compliance	2018	
SEC Average	-24.7	kWh/ (m ² .a)
SEC Cold	-51.7	kWh/ (m ² .a)
SEC Warm	-9.15	kWh/ (m ² .a)
SEC Class	C	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	511	cfm
P max	64	W
Sound power	47	dB(A)
qv ref	356	cfm
Ps ref	50	Pa
SPI	0.8	kW/ (m ³ /s)
CTRL	0.65	-
MISC	1.1	-
x-value	1.5	-
External Leakage	0.03	%
AEC average	146	kWh
AEC cold	146	kWh
AEC warm	146	kWh
AHS Average	2830	kWh/a
AHS Cold	5536	kWh/a
AHS Warm	1280	kWh/a

Specification text

The Circular duct fan is reliable in operation and maintenance free and its box consists of electroplated steel plate. The pipe connection with a length of 25 millimetre according to EN 1506:1997 allows an easy assembling. A mounting bracket for easy installation is included. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. Furthermore the fan has a free wheeling radial impeller with backward curved impeller vane. The actuation is carried out by a maintenance free, speed controlled external rotor motor. Through dropping the tension, the fans can be speed controlled with the help of a stepless thyristor or a 5- step transformer. The K fans have integral thermal contacts with reset device according to EN 60335-2-80 for protecting the engine. For annealing the engine is designed inside the air flow. Completely with the impeller in two levels the engine is statically and dynamically weighed heavy according DIN ISO 1940. According to EN 12237:2003 the fan has a leakage performance class C. Through the airproofed box and the IP 55 classified terminal box with a IP 68 classified M20 cable connection an installation outside and in damp locations is possible.

Online resources

K fan mounting.wmv
202341_Fans_Instructions_CE__A003.pdf