

KVK Silent 100E EC

Centrifugal circular duct fan <125W

Item Number: 92167

Variant: 230V 1~ 50Hz



- Low sound level, thick and high density insulation
- Compact design, easy installation
- Easy maintenance, service cover
- Air tight design
- High efficiency and low SFP in a real working point
- Potentiometer included, possible to speed control 0-100%
- Simple to install, mounting brackets included
- Integrated motor protection
- Aluzinc casing, C4 corrosion class

KVK Silent EC is a box fan with circular duct connections. The casing is insulated with thick and high density mineral wool insulation. The casing is manufactured from Aluzinc in corrosion class C4. A service cover with screw connection and hinges with pins make cleaning and service easy.

KVK Silent EC is delivered with integrated motor protection and pre-wired potentiometer (0-10V) that allows you to easily find the desired working point. The fan can be demand controlled via sensors for CO₂, temperature, humidity, presence indication and VAV. Size 315-500 also offers possibility to communication via Modbus.

KVK Silent EC can be installed in any position.

The FK mounting clamp (accessory) facilitates easy installation and removal and prevents the transfer of vibration to the duct.



Technical parameters

Nominal data		
Voltage (Nominal)	230	V
Frequency	50	Hz
Phase(s)	1~	
Input power	68	W
Input current	0.577	A
Impeller speed	3,512	r.p.m.
Air flow	max 0.0913	m ³ /s
Temperature of transported air	max 60	°C
Max temperature of transported air, when speed controlled	60	°C
Sound data		
Sound pressure level at 3m (20m ² Sabin)	43	dB
Protection/Classification		
Enclosure class, motor	IP54	
Insulation class	B	

Data according to ErP

Energy class, Basic unit	C
Energy class, Local demand	F
ErP ready	ErP 2016; ErP 2018

Dimensions and weights

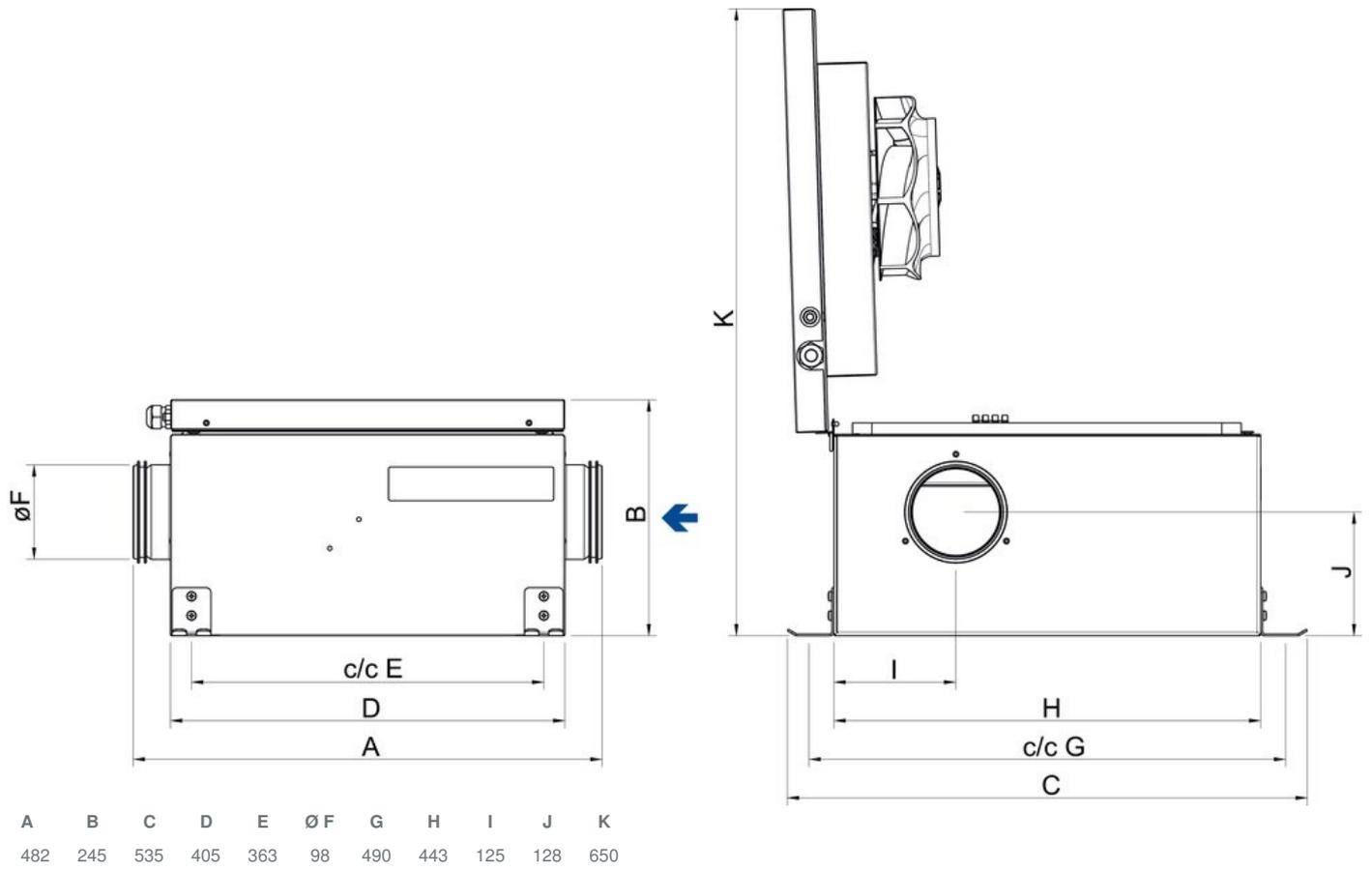
Duct dimension; Circular, inlet	100 mm
Duct dimension; Circular, outlet	100 mm
Weight	13.7 kg

Others

Duct connection type	Circular
Motor type	EC

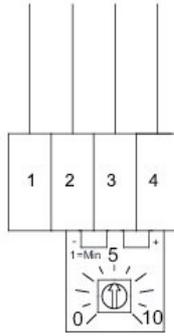
Performance

Dimension



Wiring

230V 1~



- A White
- B Blue
- C Yellow
- D Red

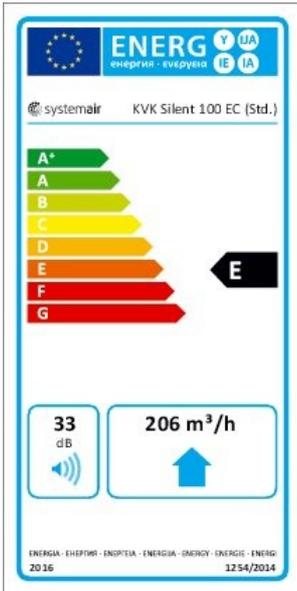
Ecodesign

Product	
Trade name	Systemair
Product name	KVK Silent 100 EC
Basic unit	
ErP compliance	2016
SEC Average	-8 kWh/(m ² .a)
SEC Cold	-24.4 kWh/(m ² .a)
SEC Warm	1.4 kWh/(m ² .a)
SEC Class	F
Unit category	RVU
Unit type	UVU
Drive	Integrated VSD
Temperature ratio (UVU)	Not applicable
qv max	293 m ³ /h
P max	68 W
Sound power level LWA	36 dB(A)
qv ref	0.0569 m ³ /s
Ps ref	50 Pa
SPI	0.133 W/(m ³ /h)
CTRL	0.65
MISC	1.1
x-value	2
External Leakage	0.2 %
External Leakage	Not applicable
AEC average	368 kWh
AHS Cold	368 kWh
AEC warm	368 kWh
AHS Average	17 kWh/a
AHS Cold	34 kWh/a
AHS Warm	8 kWh/a

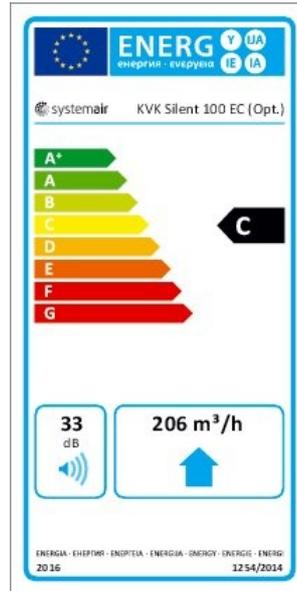
Units with local demand control		
ErP compliance		2018
SEC Average	-24.4	kWh/(m ² .a)
SEC Cold	-51.5	kWh/(m ² .a)
SEC Warm	-8.9	kWh/(m ² .a)
SEC Class		C
Unit category		RVU
Unit type		UVU
Drive		Integrated VSD
Heat recovery type		None
Temperature ratio (UVU)		Not applicable
qv max	293	m ³ /h
P max	68	W
Sound power level LWA	36	dB(A)
qv ref	0.0569	m ³ /s
Ps ref	50	Pa
SPI	0.133	W/(m ³ /h)
CTRL		0.65
MISC		1.1
x-value		2
External Leakage		0.2 %
External Leakage		Not applicable
AEC average	155	kWh
AEC cold	155	kWh
AEC warm	155	kWh
AHS Average	28	kWh/a
AHS Cold	55	kWh/a
AHS Warm	155	kWh/a

Energy class label

Energy class, Basic unit



Energy class, Local demand



Accessories

- CXE/AVC Modbus (37256)
- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Selector (9908)
- EC-Vent Room Unit (3018)
- MTP 20, on/off, 3-step (310220)
- REV-3POL/03 ON/OFF (33978)
- SG 100 Protection guard (5606)
- CO2RT-R-D Transmitter (6993)
- 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)
- DMD-C Pressure controller (15793)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent control board (3115)
- MTP 10, 10K, Speed control (32731)
- MTV-1/010 Controller 0..10V+ (30650)
- S-5EC/FRQ (76738)
- VKK-100 Back draft damper (1623)
- 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)
- VK-10 Louvre shutter (87682)

Documents

- EC-fans_Operating_and_Maintenance_instr_206268_CE_multilingual.pdf