

KVK Slim 500 EC

Centrifugal circular duct fan

Item Number: [92157](#)

Variant: 230V 1~ 50/60Hz



- Slim design, easy to install
- Easy maintenance, service cover
- Low sound level, insulated cover
- 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 Slim is a box fan with circular duct connections. The lid is insulated to keep a low sound level. The fan can be installed in any position. The casing is manufactured from Aluzinc in corrosion class C4.

KVK Slim 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. 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; 60	Hz
Phase(s)	1~	
Input power	779	W
Input current	3.49	A
Impeller speed	1,464	r.p.m.
Air flow	max 1.741	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)	62 dB(A)
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Protection/Classification

Enclosure class, motor	IP54
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Insulation class	F
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Data according to ErP

ErP ready	ErP 2018
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Dimensions and weights

Duct dimension; Circular, inlet	500 mm
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Duct dimension; Circular, outlet	500 mm
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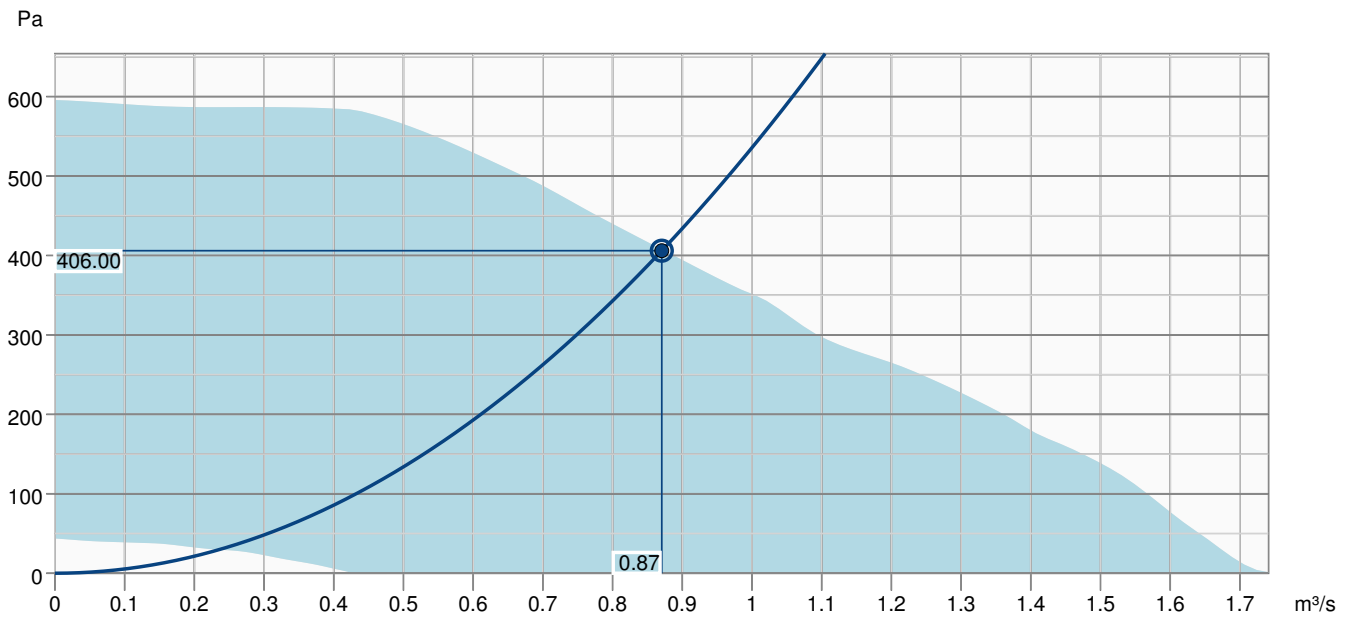
Weight	53.1 kg
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Others

Duct connection type	Circular
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Motor type	EC
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Performance curve

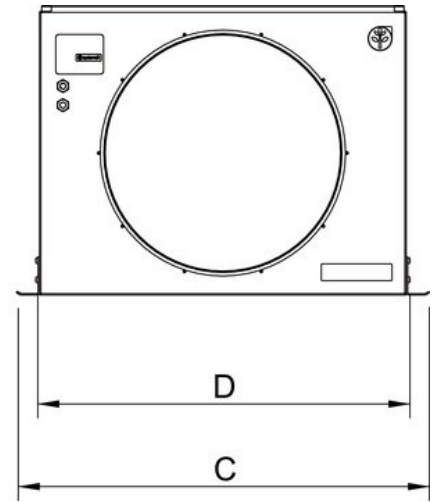
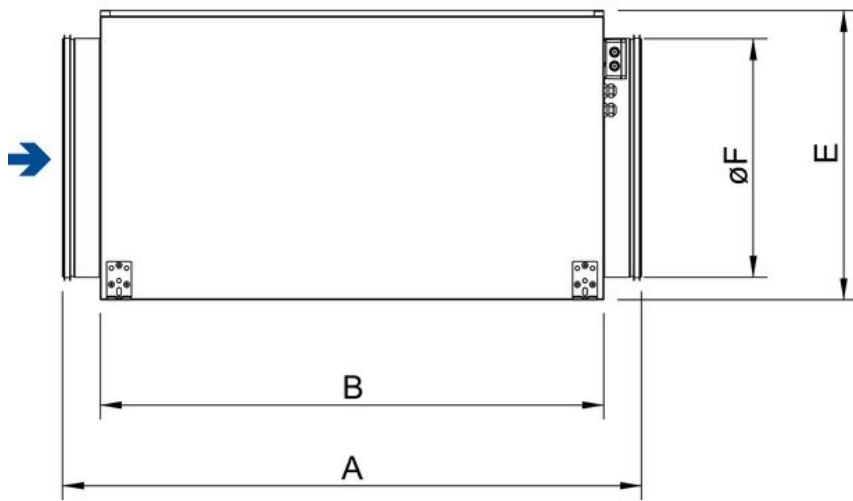


Hydraulic data

Required air flow	0.87 m³/s
Required static pressure	406 Pa
Working air flow	0.87 m³/s
Working static pressure	406 Pa
Air density	1.204 kg/m³
Power	756.5 W
Fan control - RPM	1488 rpm
Current	3.37 A
SFP	0.869 kW/m³/s
Control voltage	10.0 V
Supply voltage	230 V

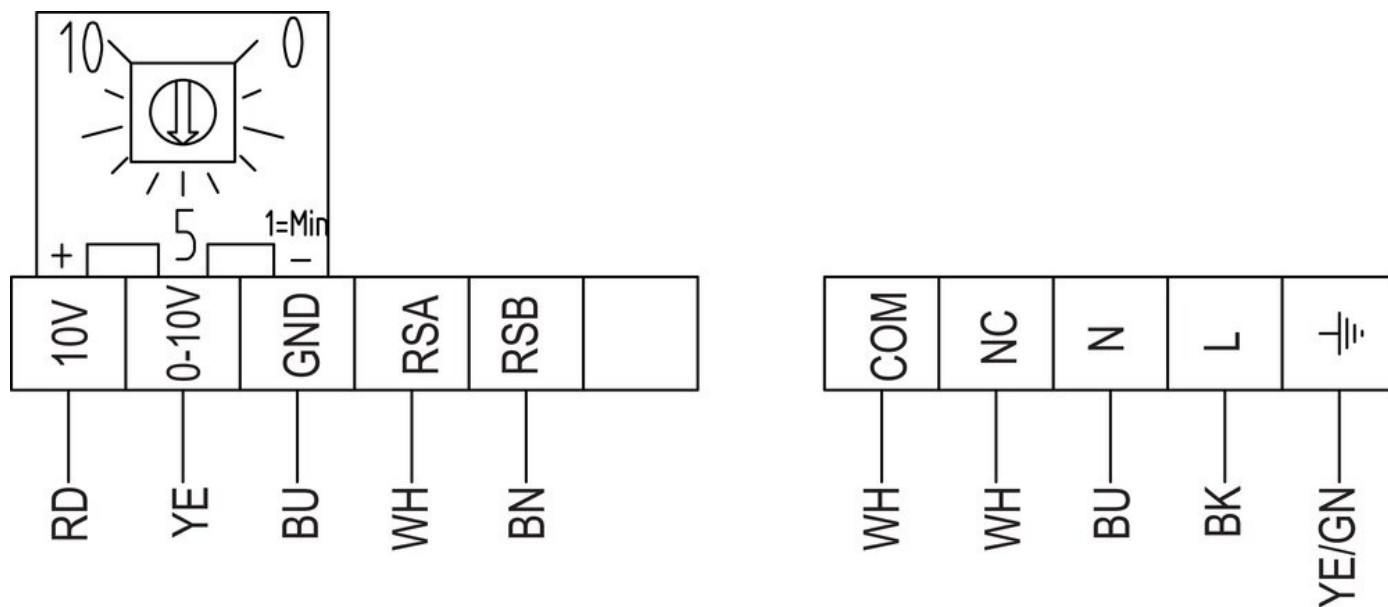
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	62	76	74	69	69	68	62	54	79
Outlet	dB(A)	55	72	69	67	73	71	64	54	78
Surrounding	dB(A)	46	59	65	60	61	62	57	50	69
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	62
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	48

Dimension



KVK SLIM	A	B	C	D	E	øF
500 EC	1213	1055	873	768	605	500

Wiring



RD Red

YE Yellow

BU Blue

WH White

GN Green

BN Brown

BK Black

Ecodesign

Product	
Trade name	Systemair
Product name	KVK Slim 500 EC
Ecodesign	
ErP compliance	2018
Unit category	NRVU
Drive	Integrated VSD
Unit type	UVU
Heat recovery type	None
Temperature ratio (UVU)	Not applicable
qv nom	0.871 m ³ /s
P nom	0.757 kW
Ps nom	406 Pa
Fan efficiency	46.7 %
External Leakage	1.4 %
Sound power level LWA	64 dB(A)

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)
- PCA 1000D2 Pressure controller (76739)
- RSK-500 Back draft damper (73049)
- SG 500 Protection guard (5615)
- Presence detector/IR24-P (6995)
- FK 500 Fast clamp (1617)
- VK-50 Louvre shutter (5646)
- 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)
- REV-3POL/03 ON/OFF (33978)
- S-5EC/FRQ (76738)
- CO2RT-R-D Transmitter (6993)
- RT 0-30 Room Thermostat (5151)
- VBC 500-2 Water heating batt (9837)

Documents

- KVK_SILENT_SLIM_OPERATING_MAINTENANCE_145899_CE_EN_A007.PDF
- MODBUS LITE V5.01 parameter specification.pdf