

KVK DUO Insulated duct fans

Run & Standby fan in one casing for non-stop operation

- Twin fan Run & Standby
- Low noise level
- Suitable for External installation as standard
- Safe and maintenance free operation

Find more details in our online catalogue

Run & Standby

KVK DUO is intended to use for **supply** or **extract** air in a variety of **commercial** and **domestic** applications with high demand for **non-interruptive ventilation**, required according to regulation. For transportation of **clean** or **contaminated** air.

Reliability

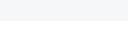
Corrosion resistance casing, thermal insulation and external terminal box with high protection class permits **outdoor** and **indoor** use. The combination of reliable casing and motor construction ensures to minimize the need for maintenance of the fans and allows long **continuous operation**.

Low noise level

KVK DUO has **fully insulated casing**. That ensures a good acoustic insulation in terms of the radiated sound. A wide range of recommended silencers for inlet and outlet allows further noise reduction.

Certifications





process and makes the fan easy to maintain.

To ensure long lifecycle it is recommended to inspect the fan

according to the manual. The detachable service lid simplify this

Easy maintainance



🖑 systemair 🛛 KV DUO 315 EC

Features

Casing of **EC** models made of magnesium zinc plated sheet metal with corrosion **class C5.** Casing of **AC** models made of galvanized sheet steel, corrosion **class C3.**

Casing of all fans is completely acoustically/thermally insulated and has internal surface liner that prevents the migration of insulation fibers into the airstream.

All casings has circular connection **spigots** with **rubber seals. EC** models are also equipped with an external **terminal box** with protection class **IP65**.

Motor protection

Models with AC motors have prewired integral thermal contacts TK with leads to external motor protection device. Models with EC motors have an integrated electronic thermal protection, including locked-rotor protection and soft-start.

Impeller

AC models use double inlet radial fans with forward-curved impellers made of sheet steel.

EC models use backward curved radial impellers. These are from lightweight, hard-wearing fiberglass

reinforced polyamide.

All impellers dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depends on type, fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

The input voltage for **EC motors** single phase can vary between 200 and 277V, for three phase between 380 and 480V.

Control

EC motor with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**

AC motor can be controlled by 5-step or stepless speed regulator

Fans can be **demand controlled** via additional accessories like sensors and controllers for CO2, temperature, humidity, presence indication, etc.

Installation

KVK DUO fans can be installed in any position **indoor** and **outdoor**. Circular spigot with rubber seals is perfectly designed to connect to the circular ducts by using **fast clamps FK preventing vibration** to the duct. A service cover with screw connection and hinges with pins make cleaning and maintenance easy.

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Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	169	W
Input current	1.17	А
Impeller speed	,824	rpm
Air flow max 0	.558	m³/s
Temperature of transported air ma	x 60	°C
Max temperature of transported air, when speed controlled	60	°C

Sound data

Sound pressure level at 3m (20m ² Sabin)	56	dB(A)
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Protection/Classification

Enclosure class, motor	IP54	
Insulation class	В	

Data according to ErP

ErP ready	ErP 2016; ErP 2018

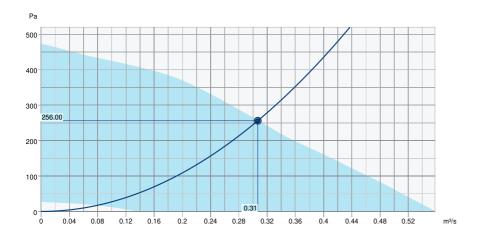
Dimensions and weights	
Duct dimension; Circular, inlet	315 mm
Duct dimension; Circular, outlet	315 mm
Weight	37.5 kg
Others	

Duct connection type	Circular	
Motor type	EC	

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Performance

Performance curve



Hydraulic data	
Required air flow	0.31 m³/s
Required static pressure	256 Pa
Working air flow	0.31 m³/s
Working static pressure	256 Pa
Air density	1.204 kg/m³
Power	159.6 W
Fan control - RPM	1,791 rpm
Current	1.09 A
SFP	0.520 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)	49	69	69	58	57	55	50	44	73
Outlet	dB(A)	51	68	68	62	61	59	52	48	72
Surrounding	dB(A)	27	61	59	48	44	39	32	26	63
Sound pressure level at 3m (20m ² Sabine)	dB(A)	-	-	-	-	-	-	-	-	56
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	42

Accessories

Article name: KV DUO 315 EC | Product link: https://shop.systemair.com/en-GB/productPermalink?p=94082 | Item Number: 76833 | Variant: 230V 1~ 50Hz | Document type: Product card | Created at: 14.12.2023 | Generated by: Systemair Online Catalogue | Language: English

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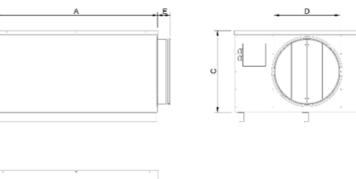
Ecodesign

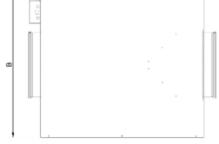
Product	
Trade name	Systemair
Product name	KV DUO 315 EC

Ecodesign		
ErP compliance	2018	
Unit category N	RVU	
Drive Integrated	VSD	
Unit type	UVU	
Heat recovery type	lone	
Temperature ratio (UVU) Not applie	able	
qv nom (.307	m³/s
P nom	0.16	kW
Ps nom	256	Pa
Fan efficiency	49.1	%
External Leakage	5	%
Sound power (LWA)	52	dB(A)

Systemair кv DUO 315 EC Dimension

8



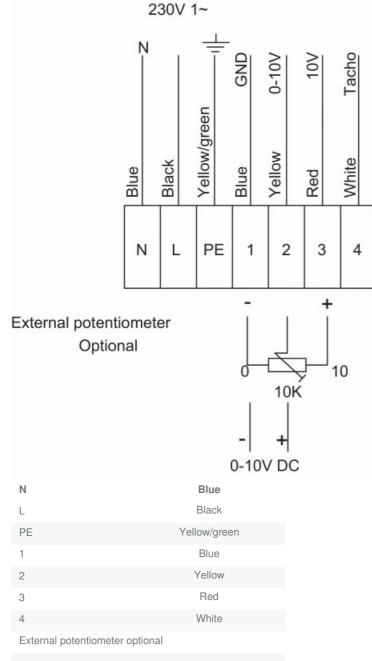


KV DUO	Α	в	С	D	Е
150	500	360	280	150	40
250	580	430	360	250	60
315	740	650	425	315	60
400	1000	895	505	400	65
500	1265	940	605	500	80
630	1383	1205	884	630	80

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Systemair кv DUO 315 EC Wiring





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- CXE/AVC Modbus (37256)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent control board (3115)
- MTP 10, 10K, Speed control (32731)
- Potentiometer MTP 20, 0-10V (310220)
- Step switch S-5EC, 0-10V (76738)
- HR1 Room Humidistat (215150)
- RT 0-30 Room Thermostat (5151)

- Item Number: #76833 Operating Mode: 230V 1~ 50Hz
- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Selector (9908)
- EC-Vent Room Unit (3018)
- MTV-1/010 Controller 0..10V+ (30650)
- Pressure controller PCA 1000D2 (76739)
- Step switch S-5EC-2, 0-10V (449084)
- Presence detector/IR24-P (6995)
- ACO8AC/EC ACO Panel IP40 (93042)

Documents

- INSTALLATION_OPERATION_AND_MAINTENANCE_INSTRUCTION_KV_DUO__KVK_DUO__KVK_003__EN.PDF
- COMMISSIONING_RECCORD_FANS__EN.PDF
- KV DUO 150-315 EC ACO EC.PDF