

KE/KT Rectangular Duct Fans

A robust, easy-maintenance fan that pairs simple installation with high performance



- High-Performance
- Durable and reliable
- Installation in any position
- Easy maintenance, swing-out service lid

[Find more details in our online catalogue](#)



Flexible for installation

The KE/KT fans are intended to use for **supply** or **extract** air, designed to be installed in **any position**. This ensures that the fans can be used in a variety of **commercial** applications.

Reliability

The combination of **reliable casing** and motor construction ensures to minimize the need for maintenance of the fans and allows long **continuous operation**. Thanks to **swing-out service lid** it is **easy to maintain**.

Performance

High performance impeller together with **high efficient** external rotor motors are designed to ensure high-level performance.

Simple installation

Standard **flanges** simplify stand-alone installation of the fan as far as together with **wide range of accessories** as flexible connections, filters, heaters, coolers, dampers, etc.

Features

Construction

Casing made of **galvanised** sheet steel, corrosion **class C3**. Motor with impeller mounted on '**swing out**' service lid. **Connection flanges** are size **PG20**. Fans are equipped with an **internal terminal box** to simplify wiring process on site.

Impeller

Single inlet **radial** impellers with **forward curved** blades. Made of **lightweight, galvanised** sheet steel. Impellers dynamically **balanced** and paired with corresponding external rotor motors.

Motor

KE/KT fans are equipped with **AC** external rotor motors are suitable for **50Hz** and **60Hz**. All motors are supported by **long-life** ball bearings.

Motor protection

KE/KT Fans have **integrated thermal contacts** with external leads for connection to **external motor protection device** (separate accessory).

Control

Motors of KE/KT fans are controlled by **5-step** or **stepless** speed regulator as well as by frequency converter provided as accessory. Speed regulation can be combined with timer, thermostat, hygrostat, etc. by using wide range of electrical accessories.

Installation

Installation of the fan possible **indoor** in **any position**. All models share **inlet and outlet flanges** to maximize adaptability with standard duct accessories, filter boxes, duct heaters/coolers, sound attenuators, etc. For **preventing vibration** to the duct it is recommended to use **DS flexible connection**.

Technical parameters

Nominal data

Voltage (nominal)	400	V
Frequency	50	Hz
Phases	3~	
Input power	1,619	W
Input current	2.71	A
Impeller speed	1,201	rpm
Air flow	max 3,827	m³/h
Temperature of transported air	max 61	°C
Max temperature of transported air, when speed controlled	61	°C

Sound data

Sound pressure level at 3m (20m² Sabin)	56	dB(A)
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Protection/Classification

Enclosure class, motor	IP54
Insulation class	F

Data according to ErP

ErP ready	ErP 2018
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Dimensions and weights

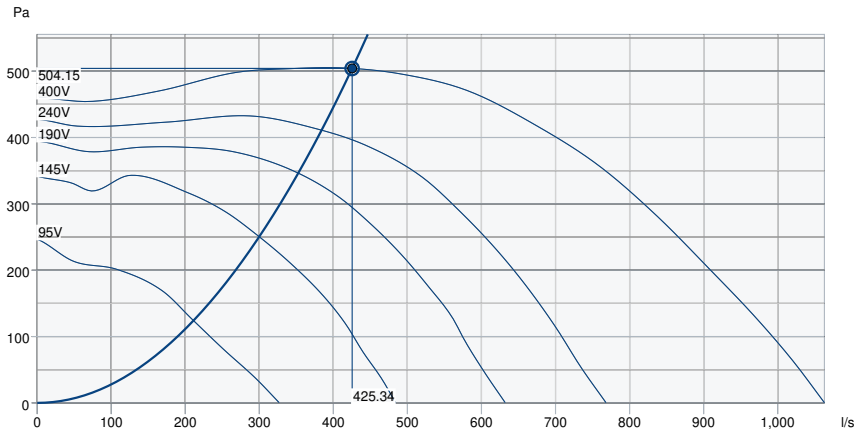
Duct dimension, inlet (height x width)	300 x 600	mm
Duct dimension, outlet (height x width)	300 x 600	mm
Weight	30.6	kg

Others

Motor type	AC
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Performance

Performance curve



Hydraulic data

Required air flow	425.28 l/s
Required static pressure	504 Pa
Working air flow	425.34 l/s
Working static pressure	504 Pa
Air density	1.204 kg/m³
Power	522.7 W
Fan control - RPM	1,422 rpm
Current	1.21 A
SFP	1.229 kW/m³/s
Control voltage	400.0 V
Supply voltage	400 V

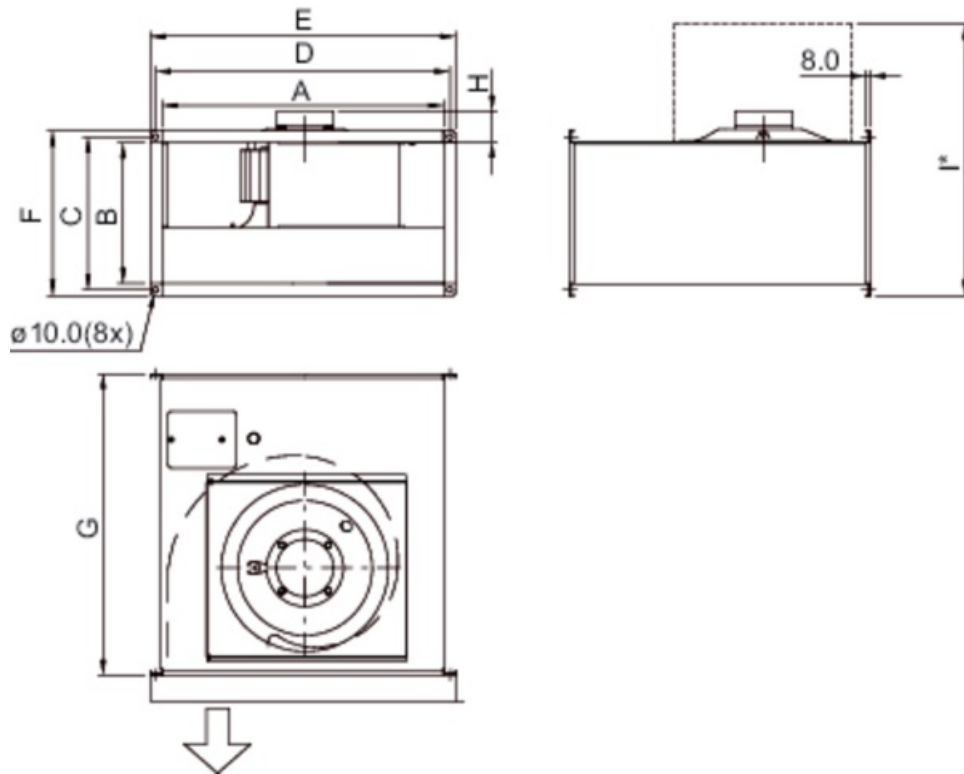
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	62	73	65	64	69	68	68	63	77
Outlet	dB(A)	61	73	68	71	73	72	72	65	80
Surrounding	dB(A)	42	60	56	49	53	51	50	49	63
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	56
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	42

Accessories

Ecodesign

Product			
Trade name		Systemair	
Product name		KT 60-30-4	
Ecodesign			
ErP compliance		2018	
Unit category		NRVU	
Drive		External MSD or VSD	
Unit type		UVU	
Heat recovery type		None	
Temperature ratio (UVU)		Not applicable	
qv nom		0.425	m³/s
P nom		0.522	kW
Ps nom		504	Pa
Fan efficiency		41	%
External Leakage		0.8	%
Sound power (LWA)		58	dB(A)

Dimension

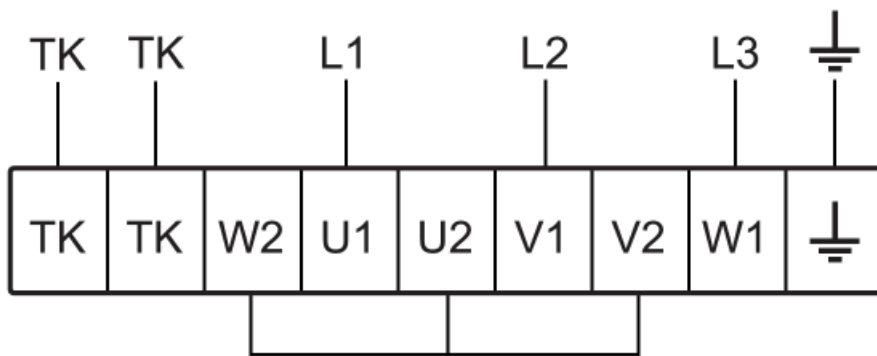


	A	B	C	D	E	F	G	H	I*
KT 40-20	398	198	220	420	440	240	502	32	530
KT 50-25	498	248	270	520	540	290	532	68	610
KT 50-30	498	298	320	520	540	340	562	68	695
KT 60-30	598	298	320	620	640	340	642	89	715
KT 60-35	598	348	370	620	640	390	717	92	805
KT 70-40-4	698	398	420	720	740	440	787	92	900
KT 70-40-6/8	698	398	420	720	740	440	787	92	900
KT 80-50	798	497	520	820	840	540	880	113	1090
KT 100-50	998	497	520	1020	1040	540	980	113	1140

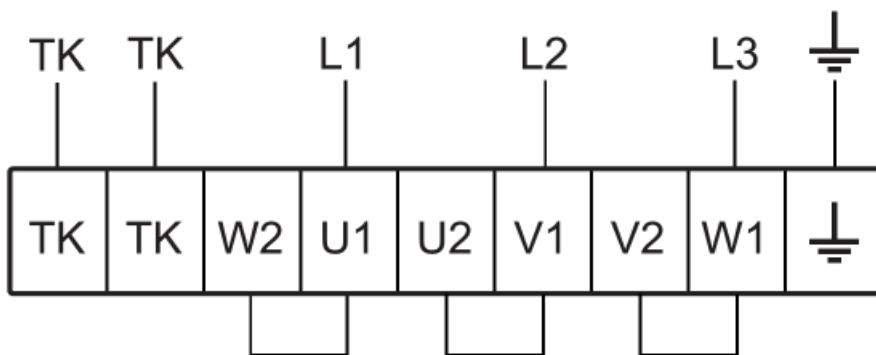
I* = Dimension with fully open hatch.

Wiring

400V 3~



230V 3~



Accessories

- Frequency converter FRQ5S-4A (36233)
- GFL 60-30 Counter flange (2708)
- Motor protect. switch S-DT 16E (161207)
- RTRD 4 Speed cont. Systemair (5942)
- STDT 16E Motor Protection (5153)
- DTV500A (96807)
- Presence detector/IR24-P (6995)
- Safety switch 3-pole grey (210680)
- DS 60-30 Flexible connection (1547)
- FFK 60-30 Filter cassette rect (1758)
- PGK 60-30-3-2,0 Duct cooler (6610)
- RB 60-30/34-2 400V/3 Duct heat (9641)
- VBR 60-30-2 Water heating batt (5466)
- Room hygrostat HR-S (286251)
- Frequency converter FRQS-4A (36231)
- Motor protect. switch S-DT 16 (161206)
- REV-5POL/07-7,5kW R/Y (33980)
- RTRDU 4 Speed contr. Systemair (5946)
- CO2RT-R-D Transmitter (6993)
- HR1 Room Humidistat (215150)
- RT 0-30 Room Thermostat (5151)
- T 120 Timer (5165)
- DXRE 60-30-3-2,5 Duct cooler (7955)
- LDR 60-30 Silencer (5072)
- RB 60-30/22-2 400V/3 Duct heat (9638)
- RBM 60-30/27 400V/3 Duct heate (5453)
- VBR 60-30-4 Water heating batt (5474)

Documents

- [INSTALLATION__OPERATION_AND_MAINTENANCE_INSTRUCTION_KE__KT__RS__RSI__EN_001.PDF](#)
- [COMMISSIONING_RECCORD_FANS__EN.PDF](#)