

Explosion proof rectangular duct fans



KTEX

- In accordance with ATEX directive 94-9 EC
- Speed controllable
- Motor protection via cold conductor

KTEX fans can be installed in any position and are easy to connect using the DS flexible connections. These fans have impellers with forward-curved blades and external rotor motors. The casing is manufactured from galvanised sheet steel, with a copper inlet cone.

To protect the motor from overheating, these fans have cold conductor with external leads which must be connected to the U-EK230E EX motor protection relay.

Explosion proof versions comply with EN 50014, EN 50019, EN 1127-1 and EN 13463-1. Improved safety in accordance with Ex e IIB T3.

ELECTRICAL ACCESSORIES



U-EK 230E EX
p. 338



R-DK4 KT
p. 323



RTRD p. 321

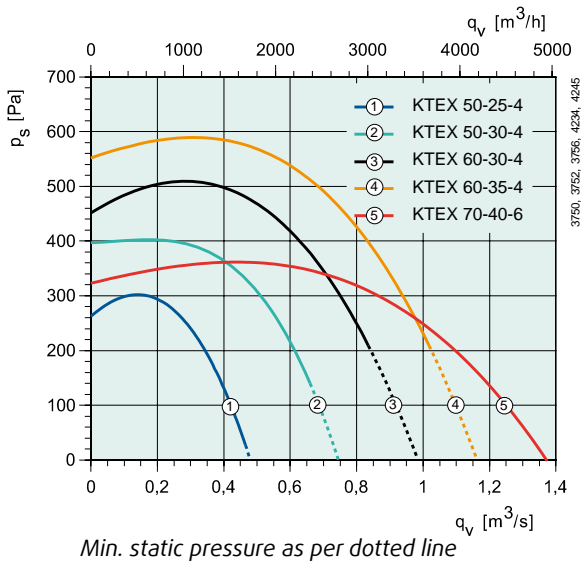


RTRDU
p. 321



Ex e-Terminal
box 32A
p. 339

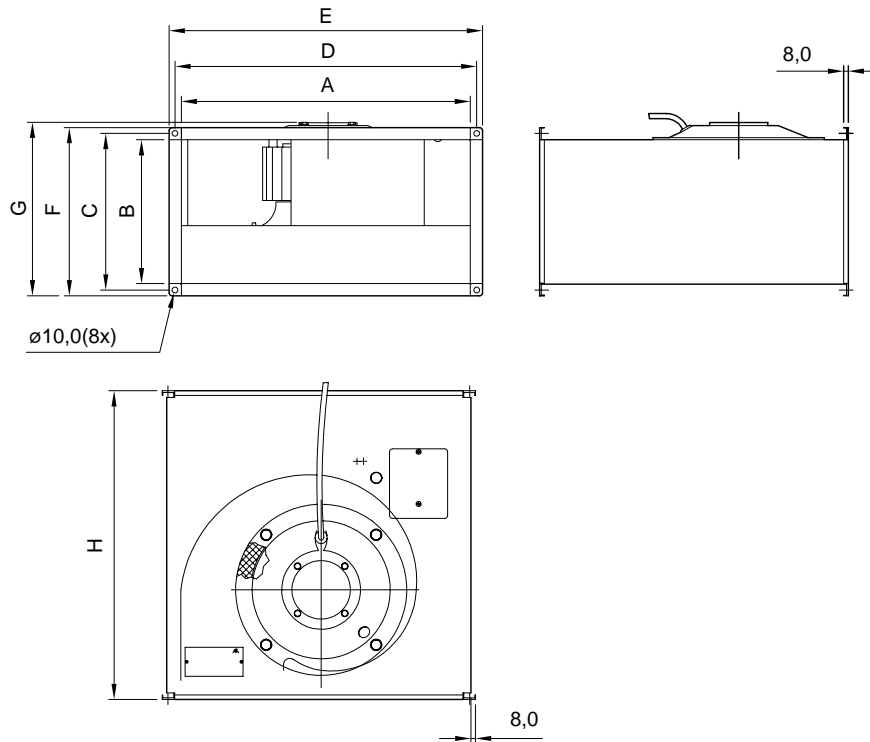
QUICK SELECTION



TECHNICAL DATA

KTEX		50-25-4	50-30-4	60-30-4	60-35-4	70-40-6
Art no.		1564	1566	1568	1570	1572
Voltage/Frequency	V/50 Hz	400 3~	400 3~	400 3~	400 3~	400 3~
Power	W	490	900	1300	2100	1800
Current	A	0.85	1.80	2.20	3.90	3.70
Max air flow	m³/s	0.467	0.66	0.82	1.01	1.38
R.p.m.	min ⁻¹	1290	1355	1330	1380	840
Max temp. of transported air	°C	-20... +40	-20... +40	-20... +40	-20... +40	-20... +40
" when speed controlled	°C	-20... +40	-20... +40	-20... +40	-20... +40	-20... +40
Sound pressure level at 3 m	dB(A)	57	58	58	62	55
Weight	kg	18	23.3	32	44	51
Insulation class, motor		F	F	F	F	F
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 44
Motor protection		U-EK230E EX	U-EK230E EX	U-EK230E EX	U-EK230E EX	U-EK230E EX
Certificate		SP 04ATEX3105X	SP 03ATEX3103X	SP 04ATEX3107X	SP 04ATEX3109X	SP 04ATEX3111X
Speed control, five step	Transformer	RTRD 2*	RTRD 4*	RTRD 4*	RTRD 7*	RTRD 4*
Speed control, five step high/low	Transformer	RTRDU 2*	RTRDU 4*	RTRDU 4*	RTRDU 7*	RTRDU 4*
Wiring diagram p. 391-400		11	11	11	11	11
* + U-EK230E EX						

DIMENSIONS



VENTILATION ACCESSORIES



DS-EX p. 363



FFK p. 357

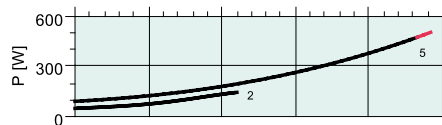
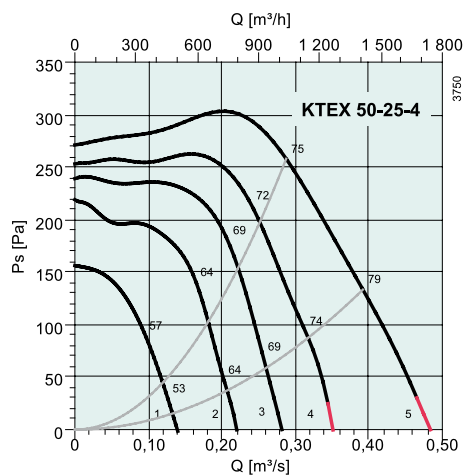


LDR p. 358

KTEX	A	B	C	D	E	F	G	H
50-25-4	498	248	270	520	540	290	299	532
50-30-4	498	298	320	520	540	340	351	562
60-30-4	598	298	320	620	640	340	366	642
60-35-4	598	348	370	620	640	390	421	717
70-40-6	698	398	420	721	740	440	466	787

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PERFORMANCE



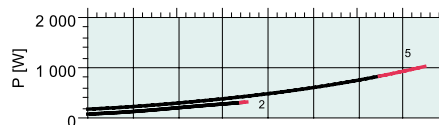
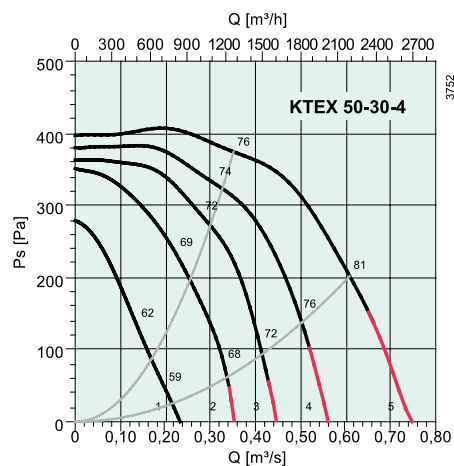
Min. static pressure 85 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	72	55	66	66	61	62	63	61	58
L _{WA} Outlet	72	46	60	64	66	67	64	62	58
L _{WA} Surrounding	64	57	59	57	53	53	50	46	43

With LDR 50-25

L _{WA} Inlet	60	55	56	51	36	37	43	46	46
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Measurement point: 0,288 m³/s; 258 Pa



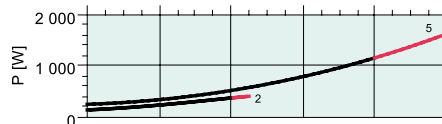
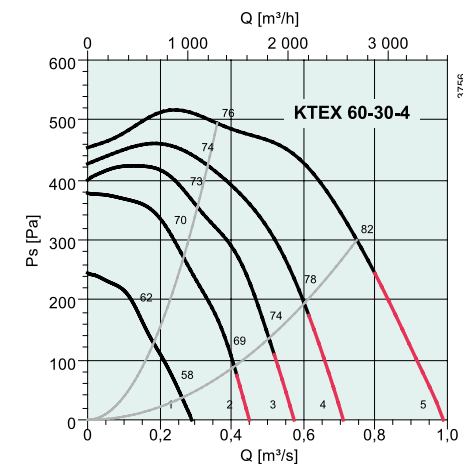
Min. static pressure 130 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	73	54	65	64	63	67	67	65	61
L _{WA} Outlet	79	48	62	67	70	74	71	70	65
L _{WA} Surrounding	65	54	56	61	55	58	53	49	46

With LDR 50-30

L _{WA} Inlet	61	54	57	49	43	36	50	51	50
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Measurement point: 0,351 m³/s; 374 Pa



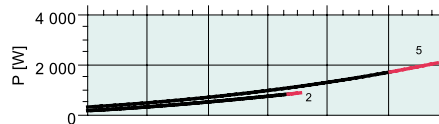
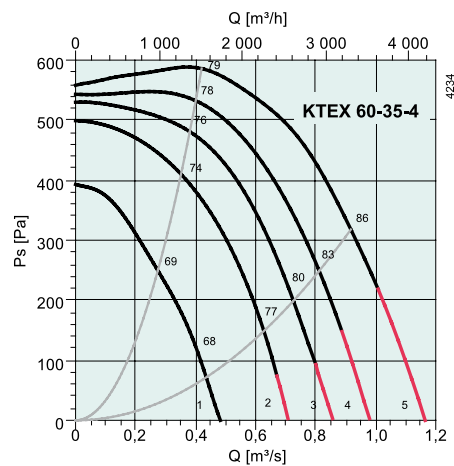
Min. static pressure 220 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	75	57	66	63	64	68	68	66	63
L _{WA} Outlet	89	60	70	75	80	84	83	82	77
L _{WA} Surrounding	65	55	60	57	55	56	56	51	47

With LDR 60-30

L _{WA} Inlet	62	57	58	48	44	37	51	52	52
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Measurement point: 0,36 m³/s; 495 Pa



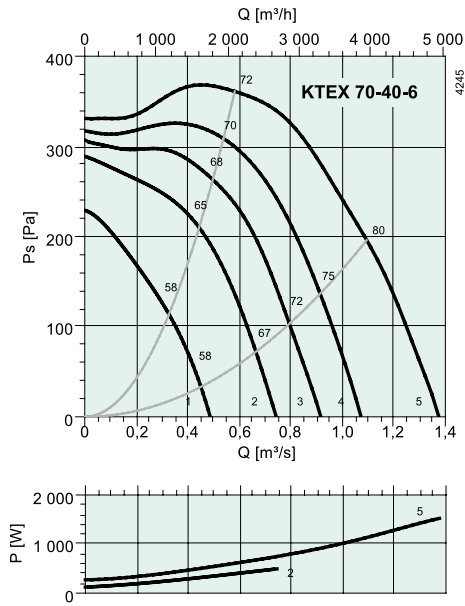
Min. static pressure 220 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	78	59	67	66	66	69	71	74	70
L _{WA} Outlet	85	54	68	71	77	78	77	80	75
L _{WA} Surrounding	69	49	64	59	57	60	60	62	57

With LDR 60-35

L _{WA} Inlet	68	59	60	53	49	51	58	64	62
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Measurement point: 0,42 m³/s; 586 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	71	51	58	60	61	63	63	67	62
L _{WA} Outlet	77	52	59	65	71	69	68	71	66
L _{WA} Surrounding	62	42	54	54	54	54	52	54	50

With LDR 70-40

L _{WA} Inlet	63	51	51	49	47	49	53	59	56
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Measurement point: 0,582 m³/s; 361 Pa