

# ISOR 250 EC K 01

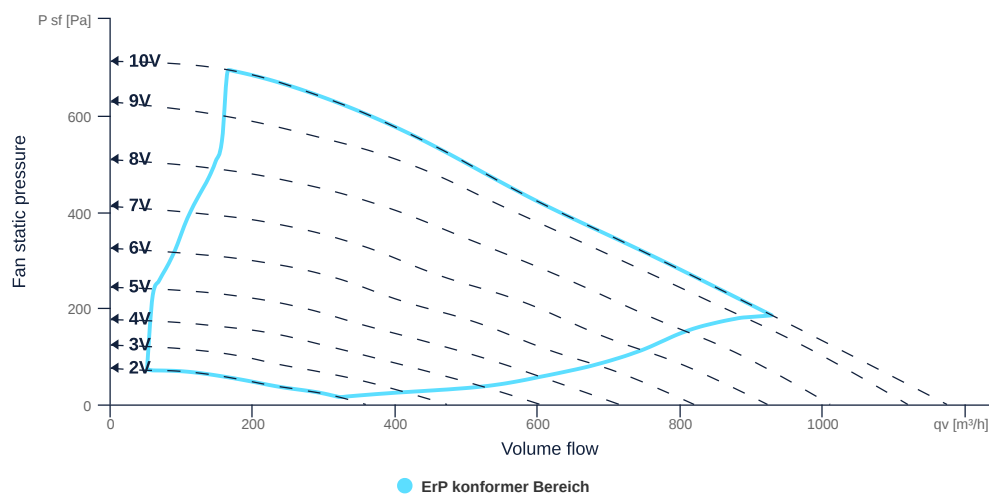
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- Soundproof centrifugal fan with backward curved impeller
- Galvanized sheet steel housing
- Connection spigots with double lip seal
- Swing-out fan unit
- EC motor, external rotor, steplessly controllable
- Internal electronic temperature monitoring
- Suitable for outdoor installation



## FAN CURVES

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



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## GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxHduct
Pipe connection size (DN)	DN250		DN
Rated voltage (entire device)	230	V	U <sub>rated</sub>
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		matcasing
Impeller material	Plastic		matimpeller
IP-protection class (entire device)	IP54		IP <sub>compl</sub>
IP-Protection class (terminal box)	IP66		IP <sub>ebox</sub>
Weight	18	kg	m
Nominal air flow rate, nominal point m <sup>3</sup> /h	525.6	m <sup>3</sup> /h	q <sub>v,nom</sub>
Nominal external pressure, static	478.6	Pa	p <sub>s,nom</sub>
Fan type	Radial		Fan <sub>type</sub>
Category / Installation situation	A		cat

## ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m <sup>3</sup> /s	0.15	m <sup>3</sup> /s	q <sub>v,nom</sub>
Actual electrical input power, nominal point	0.14	kW	P <sub>e,nom</sub>
Face velocity, nominal point	3	m/s	v <sub>nom</sub>
Nominal external pressure, static	478.6	Pa	p <sub>s,nom</sub>
supply air fan static efficiency, nominal point	60.6	%	η <sub>es,SUP</sub>
Highest external air leakage rate	0.53	%	
Enclosure sound level, nominal point	59	dba	LWA2
Rating	Product is compliant 2018		



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## MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	148	148	W	$P_{ed, max}$
Max. operating current (device)	1.21	1.21	A	$I_{ed, max}$
Max. speed	2760	2760	1/min	$n_{max}$
Max. stat. efficiency	45.9	45.9	%	$\eta_{es}$
Max. fan efficiency	46.5	46.5	%	$\eta_e$
Max. flowrate	1170	1170	m <sup>3</sup> /h	$Q_v, max$
Max. stat pressure	710	710	Pa	$p_{sf, max}$
Max. medium temperature	50	50	°C	$T_m, max$
Max. environment temperature	50	50	°C	$T_{amb, max}$
Min. environment temperature	-30	-30	°C	$T_{amb, min}$

## MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		EC		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TEC		protectmotor
Protection class		IP30		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwsupmotor
Rated voltage	230		V	$U_{rated, f1}$
Rated current	1.43		A	$I_{rated, f1}$
Shaft power	205		W	$P_{out, f1}$
Speed	2792		1/min	$n_{f1}$
Min. temperature	-30		°C	$T_{motor, min}$
UL-Certification motor		None		ULcert



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