

# ISOR 500 EC K 01

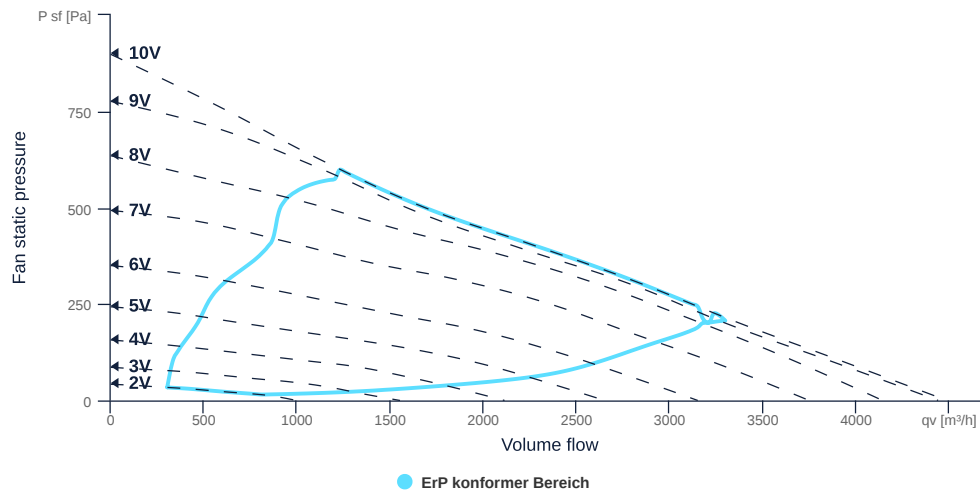
167711

- 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)	DN500		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	67.8	kg	m
Nominal air flow rate, nominal point m <sup>3</sup> /h	3297.6	m <sup>3</sup> /h	q <sub>v,nom</sub>
Nominal external pressure, static	207	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	0.92	m <sup>3</sup> /s	q <sub>v,nom</sub>
Actual electrical input power, nominal point	0.5	kW	P <sub>e,nom</sub>
Face velocity, nominal point	4.67	m/s	v <sub>nom</sub>
Nominal external pressure, static	207	Pa	p <sub>s,nom</sub>
static efficiency of the extract fan, nominal point	37.85	%	η <sub>es,EHA</sub>
Highest external air leakage rate	0.3	%	
Enclosure sound level, nominal point	62.16	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)	506	506	W	$P_{ed, max}$
Max. operating current (device)	2.33	2.33	A	$I_{ed, max}$
Max. speed	1840	1840	1/min	$n_{max}$
Max. stat. efficiency	48	48	%	$\eta_{es}$
Max. fan efficiency	48.8	48.8	%	$\eta_e$
Max. flowrate	4480	4480	m <sup>3</sup> /h	$Q_{v, max}$
Max. stat pressure	900	900	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	-25	-25	°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			IP55	IPmotor
Is pole-changeable			No	polexch
Type of power supply			AC 1~	pwsupmotor
Rated voltage	230		V	$U_{rated, f1}$
Rated current	2.2		A	$I_{rated, f1}$
Shaft power	500		W	$P_{out, f1}$
Speed	1500		1/min	$n_{f1}$
Min. temperature	-25		°C	$T_{motor, min}$
UL-Certification motor			UL recognized	ULcert



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