

ISOR 450 EC K 01

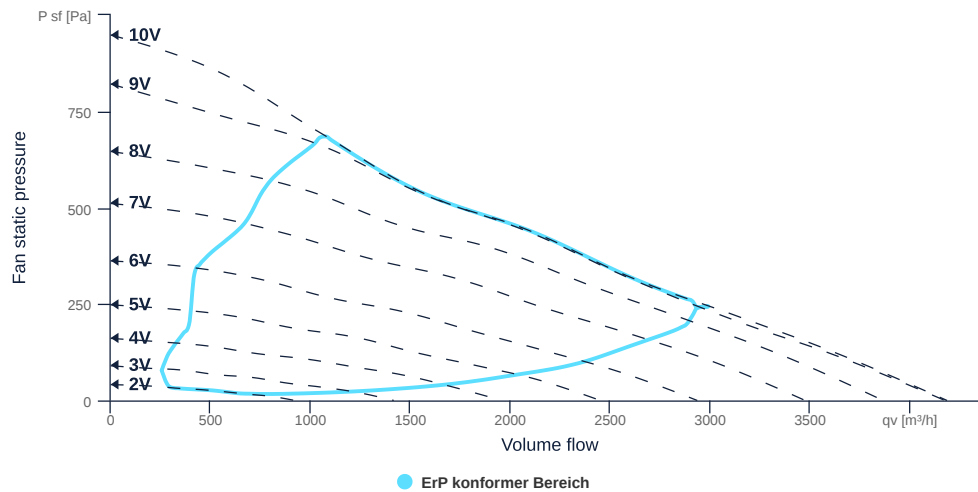
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- Soundproof centrifugal fan with backward curved impeller
- Galvanized sheet steel housing
- Connection spigots with double lip seal
- Swing-out fan unit
- EC motor, external rotor, steplessly controllable
- Internal electronic temperature monitoring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



FAN CURVES

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



to the product detail page

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxHduct
Pipe connection size (DN)	DN450		DN
Rated voltage (entire device)	230	V	U _{rated}
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 _{compl}
IP-Protection class (terminal box)	IP66		IP _{ebox}
Weight	65.3	kg	m
Nominal air flow rate, nominal point m ³ /h	2084.4	m ³ /h	q _{v,nom}
Nominal external pressure, static	365.9	Pa	p _{s,nom}
Fan type	Radial		Fan _{type}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m ³ /s	0.58	m ³ /s	q _{v,nom}
Actual electrical input power, nominal point	0.42	kW	P _{e,nom}
Face velocity, nominal point	3.6	m/s	v _{nom}
Nominal external pressure, static	365.9	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	63.2	%	η _{es,SUP}
Highest external air leakage rate	0.62	%	
Enclosure sound level, nominal point	70	dba	L _{WA2}
Rating	Product is compliant 2018		



to the product detail page

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	507	507	W	$P_{ed, max}$
Max. operating current (device)	2.3	2.3	A	$I_{ed, max}$
Max. speed	1910	1910	1/min	n_{max}
Max. stat. efficiency	48.3	48.3	%	η_{es}
Max. fan efficiency	49.1	49.1	%	η_e
Max. flowrate	4180	4180	m ³ /h	$Q_{v, max}$
Max. stat pressure	950	950	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



to the product detail page