

MPS 450 EC 30

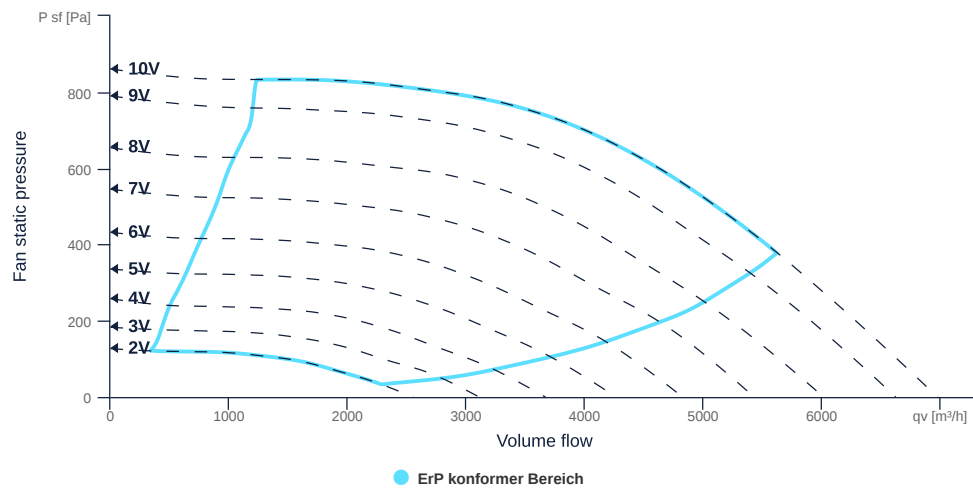
149322

- Backward curved radial impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- High efficiency EC motor outside the air flow
- Conveyed medium temperature up to 120 °C in continuous operation
- With condensate and grease drain



MAP

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	-		WxH _{duct}
Pipe connection size (DN)	DN355		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Steel		mat _{impeller}
Weight	76	kg	m
Nominal air flow rate, nominal point m ³ /h	3286.8	m ³ /h	q _{v,nom}
Nominal external pressure, static	541.8	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	0.91	m ³ /s	q _{v,nom}
Actual electrical input power, nominal point	0.8	kW	P _{e,nom}
Face velocity, nominal point	2.8	m/s	v _{nom}
Nominal external pressure, static	541.8	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	65.7	%	η _{es,SUP}
Highest external air leakage rate	0.05	%	
Enclosure sound level, nominal point	75	dB(A)	L _{WA2}
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	1350	1350	W	P _{ed,max}
Max. operating current (device)	9.7	9.7	A	I _{ed,max}
Max. speed	1640	1640	1/min	n _{max}
Max. stat. efficiency	57.2	57.2	%	η _{es}
Max. fan efficiency	64.3	64.3	%	η _e
Max. flowrate	6975	6975	m ³ /h	q _{v,max}
Max. stat pressure	860	860	Pa	p _{st,max}
Max. medium temperature	120	120	°C	T _{m,max}
Max. environment temperature	50	50	°C	T _{amb,max}
Min. environment temperature	-20	-20	°C	T _{amb,min}



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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			IRM (In)	install
Rotation direction			right	rotation
Isolation class			ISO F	ISOclass
Protection class			IP54	IPmotor
Is pole-changeable			No	polexch
Type of power supply			AC 1~	pwrSUPmotor
Rated voltage	230		V	U _{rated, f1}
Rated current	8		A	I _{rated, f1}
Shaft power	1100		W	P _{out, f1}
Speed	2100		1/min	n _{f1}
UL-Certification motor			None	ULcert

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

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MECHANICAL ACCESSORIES

RSK 355 | 102665



- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

RSK 355D | 113491



- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps
- Integrated gasket

WK MPS 07 | 127953



- Wall mounting bracket for box fan
- Galvanized steel sheet
- 1 Pack = 2 pieces

VM 355 | 102653



- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

WSH MPS EC 03 | 136001



- Weather protection hood for motor
- Galvanized steel sheet

ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- U_{max} = 400 V, I_{max} = 25 A
- Switching capacity 400 V 3~ = 5,5 kW
- Protection class IP 55

MTP 20 | 128146



- Potentiometer 10 kΩ
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

MTP 30 | 143289



- Stepped potentiometer 10 kΩ
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage +10 Vdc

MTP 40 | 147359



- Potentiometer 10 kΩ
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

SEN AIR | 148641



- Airflow and temperature transducer
- Measuring range temperature 0...+50 °C
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to 20 m/s

CON P1000 | 115259



- Constant pressure control
- Actual value display possible via optional control unit
- Output 0-10 V DC + FC enable + setpoint reached
- Pressure setting by means of decade switch

SEN P1000 | 126080



- Differential pressure sensor
- P-control, PV-control
- P = 2 pcs. required, PV = 1 pcs. required

MTP 50 | 153133



- Potentiometer with multifunction output
- 230 VAC ±10 % / 50-60 Hz
- Selectable output: 1-10 VDC / 2-20 mA / 10-100 % PWM
- Min. and max. output value adjustable



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