

RS 100 EC K 01

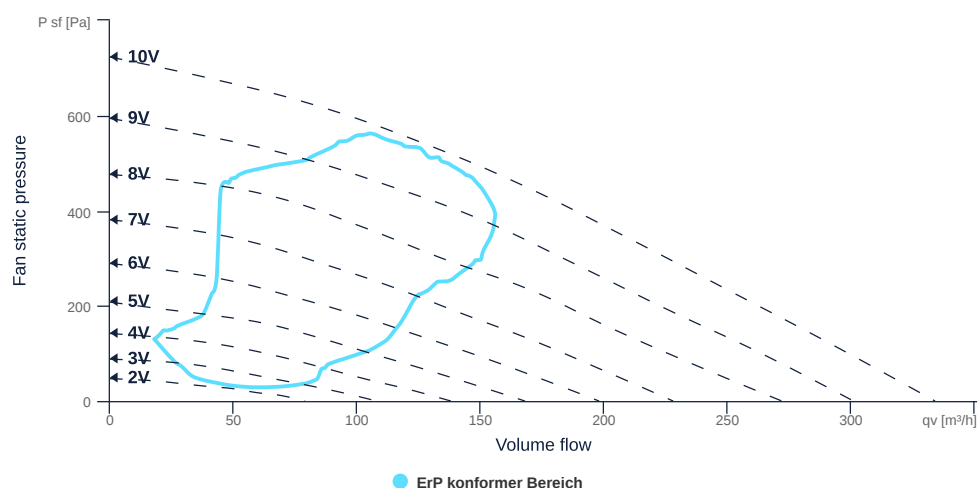
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- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- High efficiency EC motor, steplessly controllable
- Internal electronic temperature monitoring
- Incl. 1x potentiometer for connection in terminal box



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	-		WxH _{duct}
Pipe connection size (DN)	DN100		DN
Rated voltage (entire device)	230	v	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
IP-protection class (casing)	IPX4		IP _{casing}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	2.66	kg	m
Nominal air flow rate, nominal point m³/h	154.8	CmH	q _{v,nom}
Nominal external pressure, static	393	Pa	p _{s,nom}
Fan type	Radial		Fan _{type}
Category / Installation situation	B		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	0.04	CmS	q _{v,nom}
Actual electrical input power, nominal point	0.07	kw	P _{e,nom}
Face velocity, nominal point	5.52	mps	v _{nom}
Nominal external pressure, static	393	Pa	p _{s,nom}
static efficiency of the extract fan, nominal point	25.31	p	η _{es,EHA}
Highest external air leakage rate	1.41	p	
Enclosure sound level, nominal point	63.13	db	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)	103	103	w	P _{ed, max}
Max. operating current (device)	0.9	0.9	A	I _{ed, max}
Max. speed	3940	3940	rpm	n _{max}
Max. stat. efficiency	26.2	26.2	p	η _{es}
Max. fan efficiency	26.2	26.2	p	η _e
Max. flowrate	335	335	CmH	Q _{v, max}
Max. stat pressure	720	720	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		protect _{motor}
Protection class		IP54		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwr _{sup} _{motor}
Rated voltage	230	230	v	U _{rated, f1}
Rated current	0.89	0.89	A	I _{rated, f1}
Speed	3960	3960	rpm	n _{f1}
Efficiency	46.8	46.8	p	η _{m, f1}
Min. temperature	-30	-30	°C	T _{motor, min}
Cos Phi	0.560000	0.560000		cos φ
UL-Certification motor		None		UL _{cert}

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		F _{class}

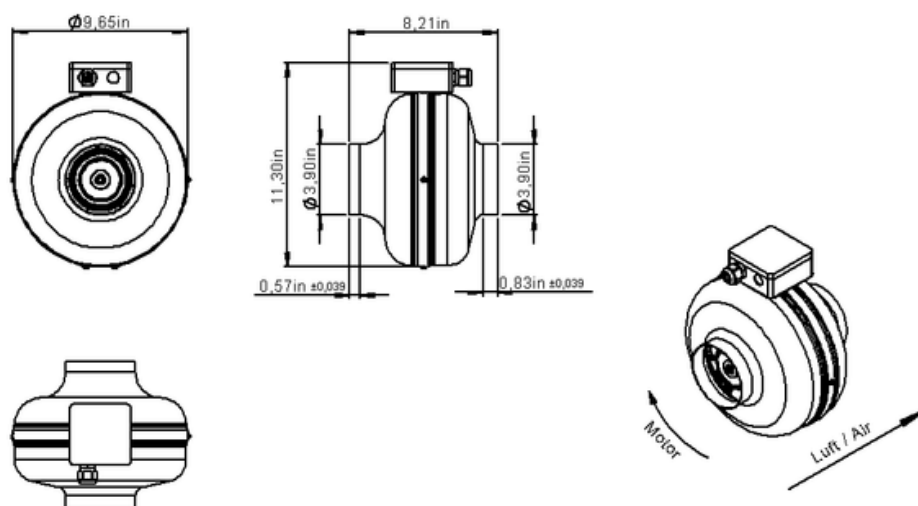


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



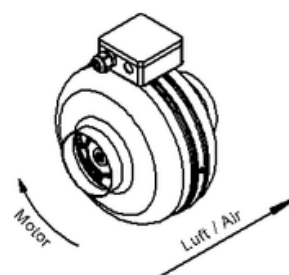
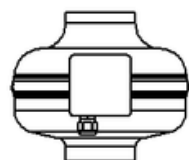
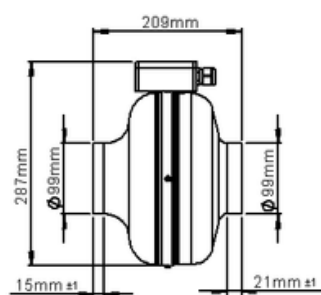
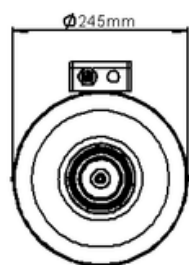
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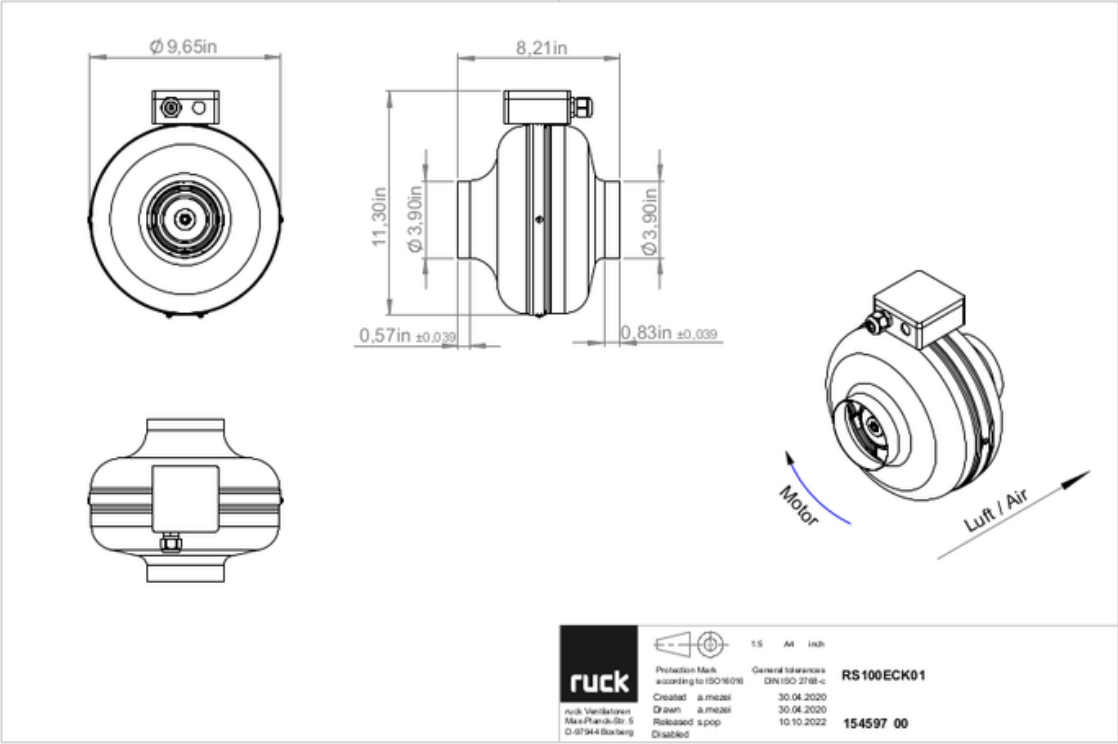
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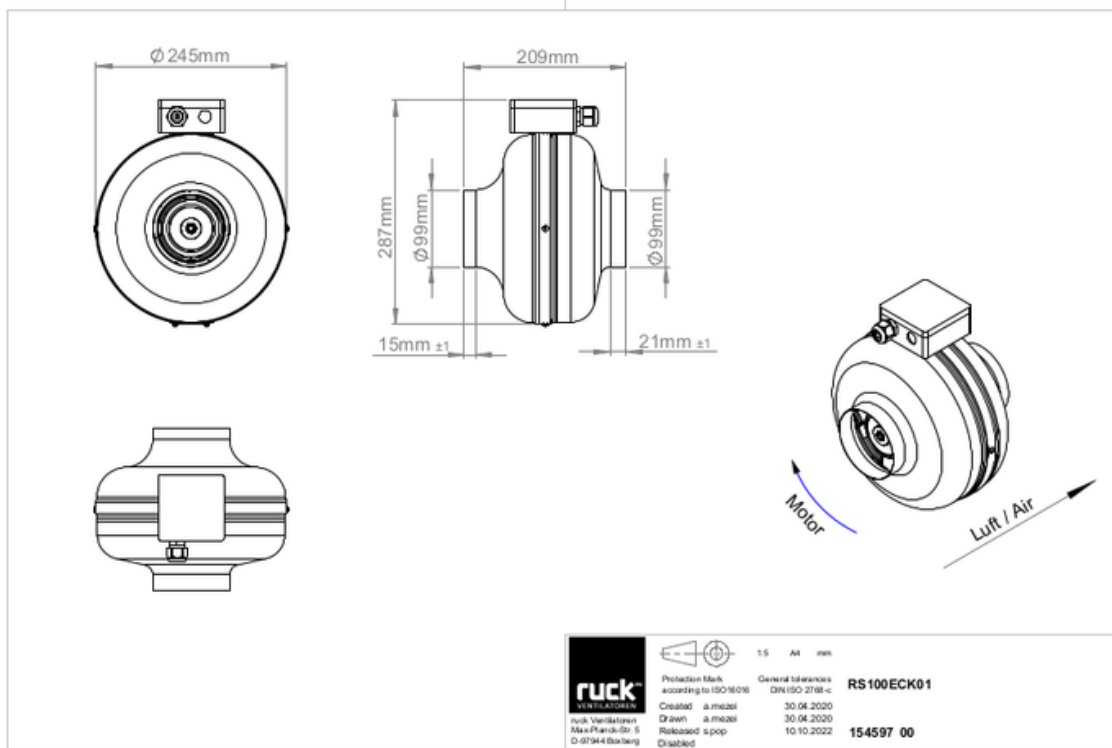


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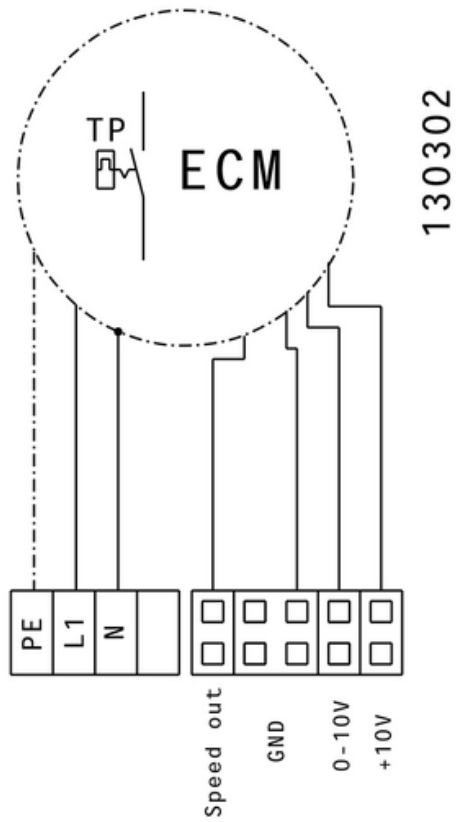
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MECHANICAL ACCESSORIES

VM 100 | 102643



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

RSK 100 | 102658



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

SG 100 01 | 102894



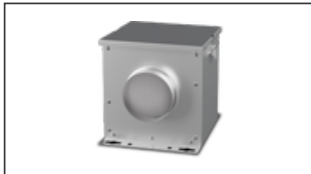
- Protection grille for tube connection
- Galvanized wire

MRS 1 | 110094



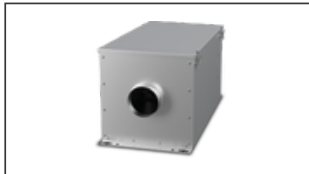
- Mounting bracket
- Galvanized steel sheet
- Includes: Mounting bracket and 2 Phillips screws (6 x 45 mm), 2 dowels (8 x 40 mm)

FV 100 | 112678



- Air filter box with mat filter ISO Coarse 45 % (G3)
- Toggle-type fastener

FT 100 | 112844



- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

FTW 100 | 112849



- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

RSK 100D | 116061



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

SDS 100 | 169602



- Rigid tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm (mineral wool)

SDF 100 | 169639



- Flexible tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm



ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- $U_{max} = 400 \text{ V}$, $I_{max} = 25 \text{ A}$
- Switching capacity $400 \text{ V } 3\sim = 7,5 \text{ kW}$
- Protection class IP 55

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

MTP 20 | 128146



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

MTP 30 | 143289



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

MTP 40 | 147359



- Potentiometer 10 k Ω
- 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

MTP 50 | 168752



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

