

RS 100L 20

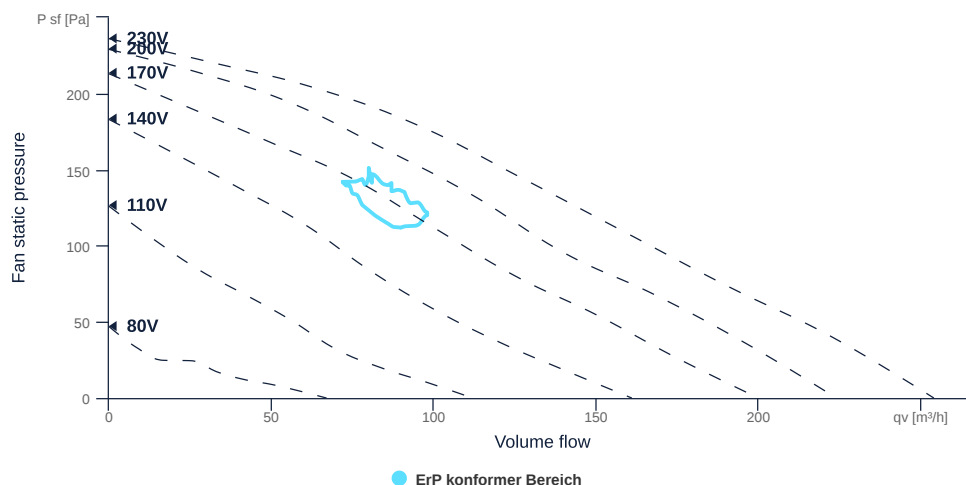
143351

- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Integrated thermal switch



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	2.77	kg	m
Nominal air flow rate, nominal point m³/h	97.2	m³/h	q _{v,nom}
Nominal external pressure, static	121.97	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 m³/s	0.03	m³/s	q _{v,nom}
Actual electrical input power, nominal point	0.02	kW	P _{e,nom}
Face velocity, nominal point	3.47	m/s	v _{nom}
Nominal external pressure, static	121.97	Pa	p _{s,nom}
static efficiency of the extract fan, nominal point	17.28	%	η _{es,EHA}
Highest external air leakage rate	2.24	%	
Enclosure sound level, nominal point	44.1	dba	LWA ₂
Rating	Product is not compliant		



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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	28	34	W	P _{ed, max}
Max. operating current (device)	0.23	0.26	A	I _{ed, max}
Max. speed	2710	3150	1/min	n _{max}
Max. stat. efficiency	17.6	18.6	%	η _{es}
Max. fan efficiency	19.2	19.8	%	η _e
Max. flowrate	250	260	m³/h	Q _{v, max}
Max. stat pressure	235	320	Pa	p _{sf, max}
Max. medium temperature	60	60	°C	T _{m, max}
Max. environment temperature	60	60	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	80	V	U _{min}
Stall current	0.27	0.27	A	I _{LRA}

MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO _{class}
Motor-protection		TMI		protect _{motor}
Protection class		IP33		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwr _{sup} _{motor}
Capacity capacitor		2	μF	C _{cond}
Voltage capacitor		400	V	VU _{cond}
Number of poles (1)		2.000000		num poles _{w1}
Rated voltage	230	230	V	U _{rated, f1}
Rated current	0.23	0.3	A	I _{rated, f1}
Speed	2373	2469	1/min	n _{f1}
Starting current	0.37	0.37	A	I _{start, f1}
Efficiency	27.7	23.7	%	η _{m, f1}
Min. temperature	-30	-30	°C	T _{motor, min}
Cos Phi	0.990000	0.990000		cos φ
UL-Certification motor		None		UL _{cert}



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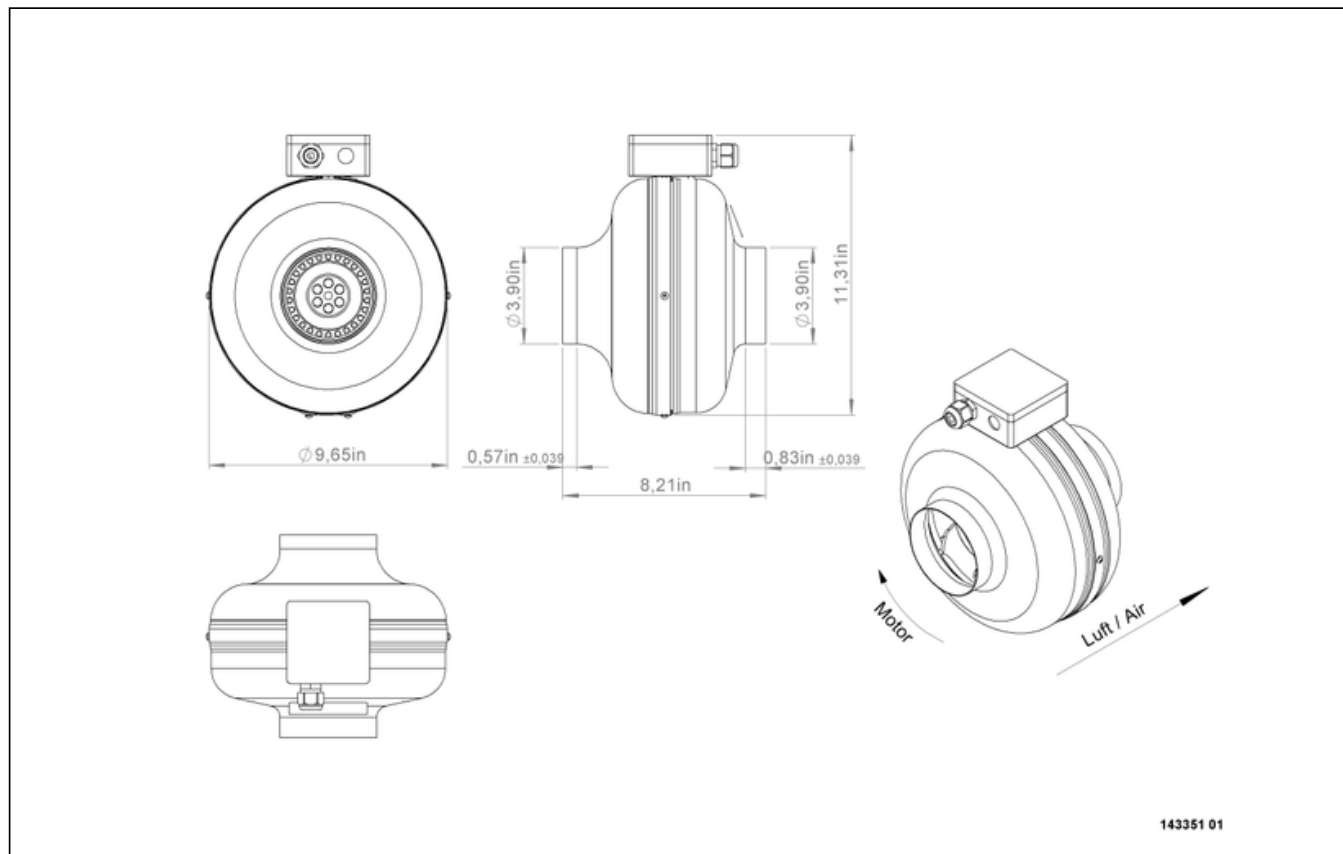


SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



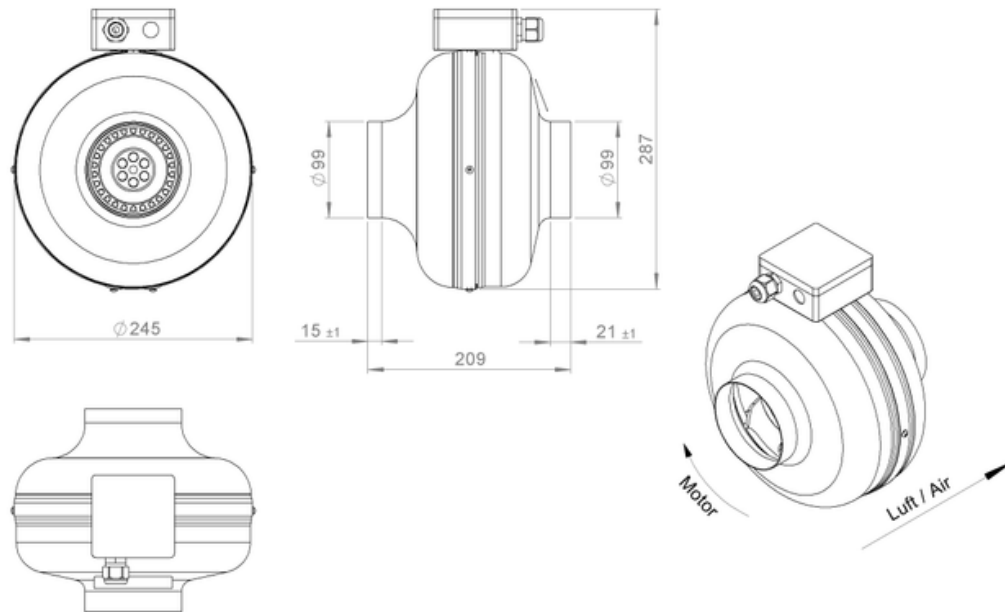
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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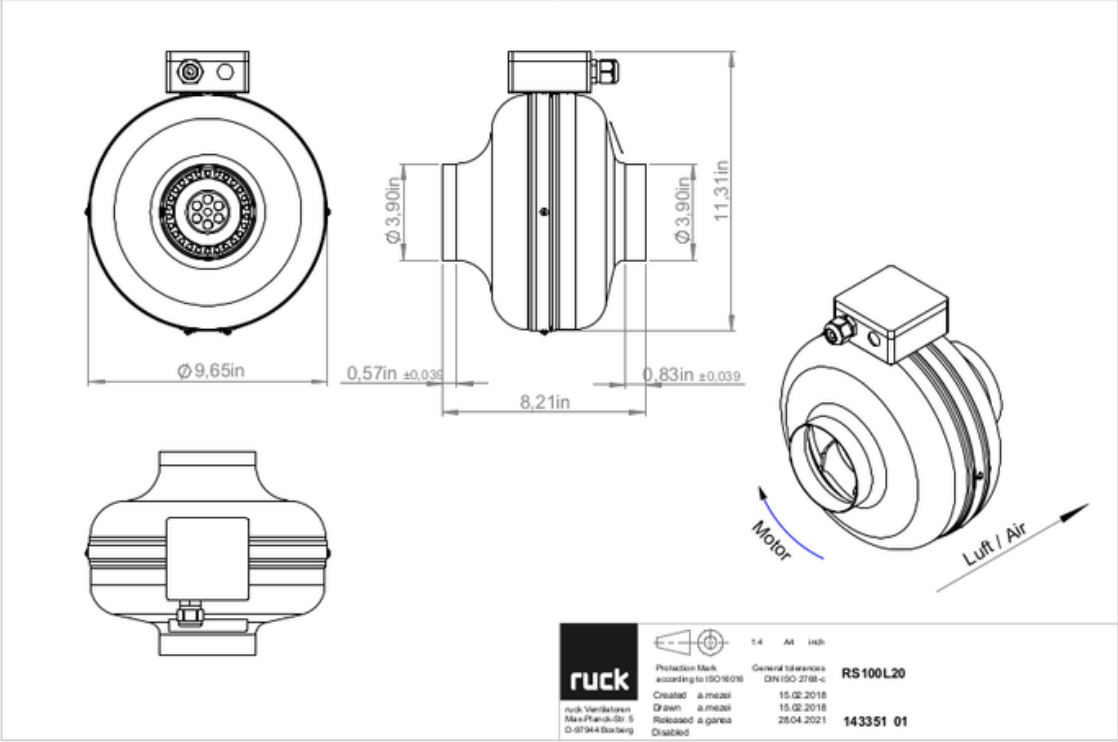


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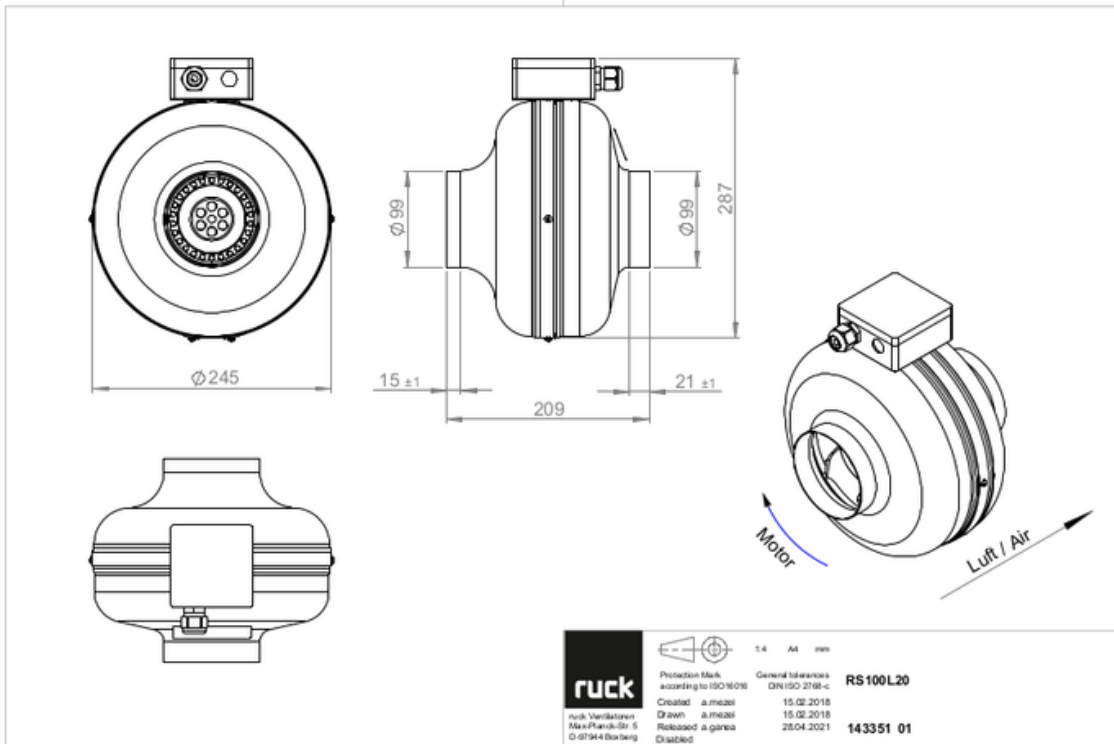


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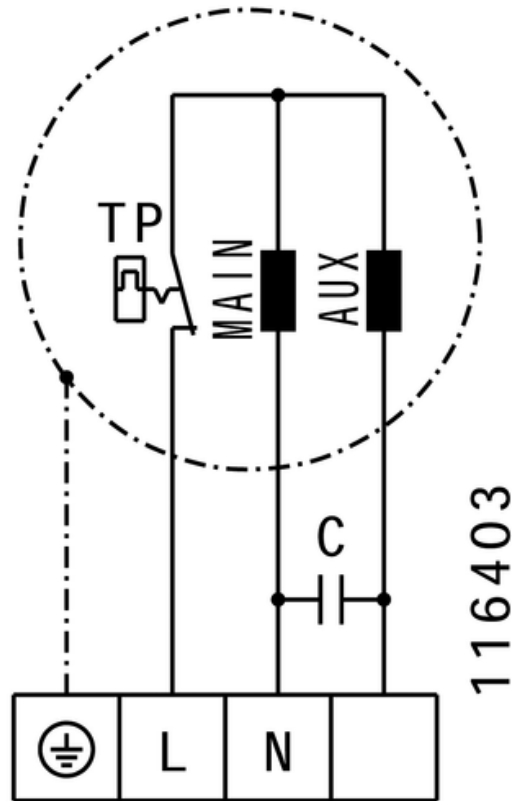


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MECHANICAL ACCESSORIES

VM 100 | 102643



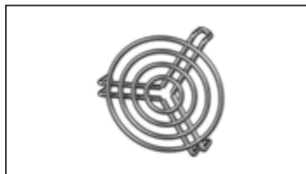
- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

RSK 100 | 102658



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

SG 100 01 | 102894



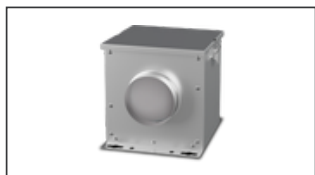
- Protection grille for tube connection
- Galvanized wire

MRS 1 | 110094



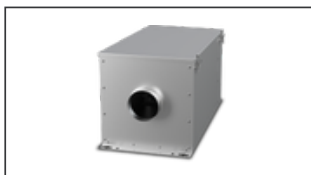
- Mounting bracket
- Galvanized steel sheet
- Includes: Mounting bracket and 2 Phillips screws (6 x 45 mm), 2 dowels (8 x 40 mm)

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 01 | 102787



- Isolator switch
- $U_{max} = 400\text{ V}$, 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- $I_{max} = 25\text{ A}$

MTY 1 | 103428



- Electronic controller
- Stepless
- 230 V ~, 50 Hz
- Max. ambient temperature 35 °C
- $I_{max} = 1\text{ A}$
- Surface and flush mounting

ETY 15 | 115891



- Electronic controller
- Stepless speed control
- 230 V ~, 50 Hz, 2,5 A
- Max. ambient temperature 35 °C

TEE 015 | 115893



- 5-step transformer
- 230 V ~, 50/60 Hz

TES 0145 | 169581



- Step transformer
- 230 V ~, 50/60 Hz

