

RS 100

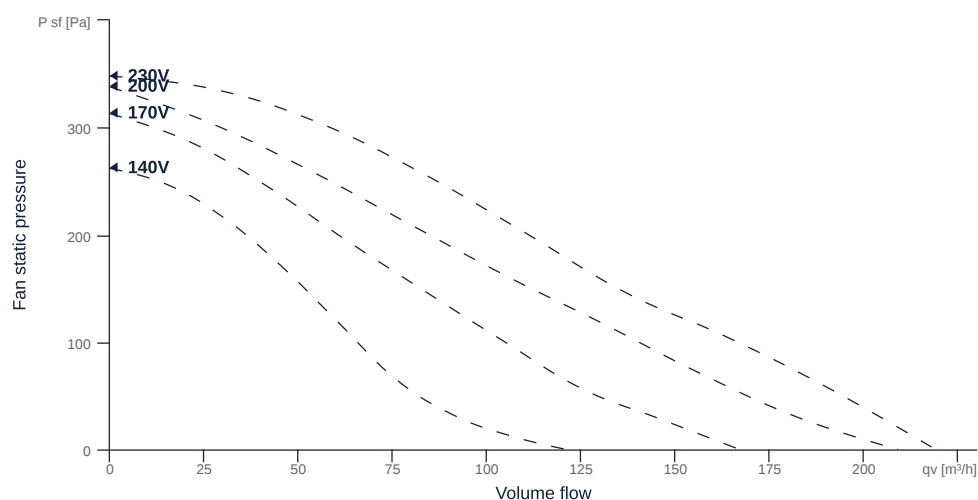
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- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 80 °C in continuous operation
- Integrated thermal switch



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	none		
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
Fan type	Radial		Fan _{type}
Category / Installation situation	D		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	54	64	w	P _{ed, max}
Max. operating current (device)	0.25	0.29	A	I _{ed, max}
Max. speed	2740	3210	rpm	n _{max}
Max. stat. efficiency	10.9	10.5	p	η _{es}
Max. fan efficiency	11.8	11.3	p	η _e
Max. flowrate	220	220	CmH	q _{v, max}
Max. stat pressure	348	470	Pa	p _{sf, max}
Max. medium temperature	80	80	°C	T _{m, max}
Max. environment temperature	80	80	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	140	140	v	U _{min}
Stall current	0.33	0.33	A	I _{LRA}



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MOTOR DATA

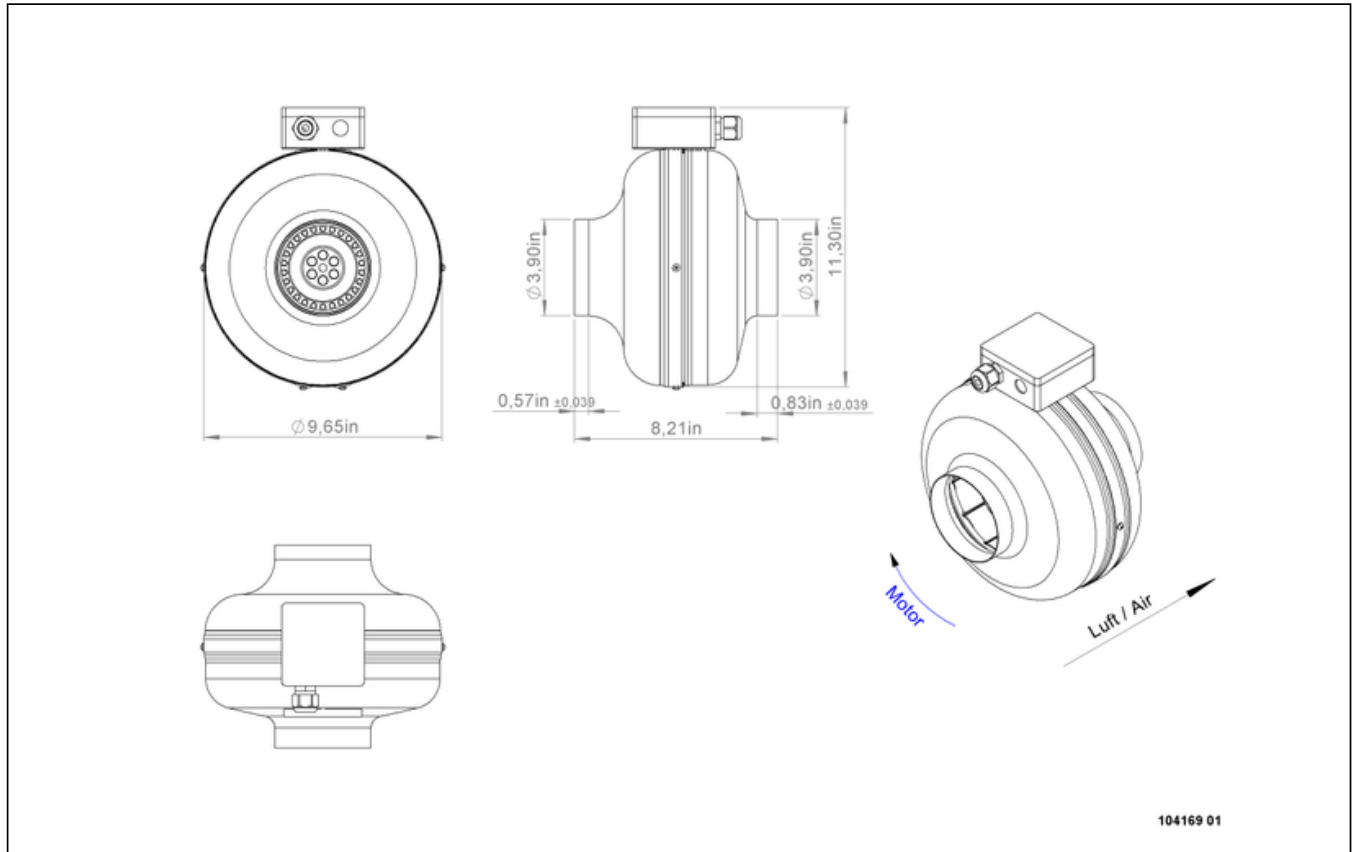
Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAI		protectmotor
Protection class		IP33		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		2	µF	Ccond
Voltage capacitor		450	v	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230	230	v	Urated, f1
Rated current	0.29	0.35	A	Irated, f1
Speed	2345	2430	rpm	nf1
Starting current	0.38	0.4	A	Istart, f1
Efficiency	20.8	19.5	p	ηm, f1
Min. temperature	-30	-30	°C	Tmotor, min
Cos Phi	0.990000	0.990000		cos φ
UL-Certification motor		None		ULcert

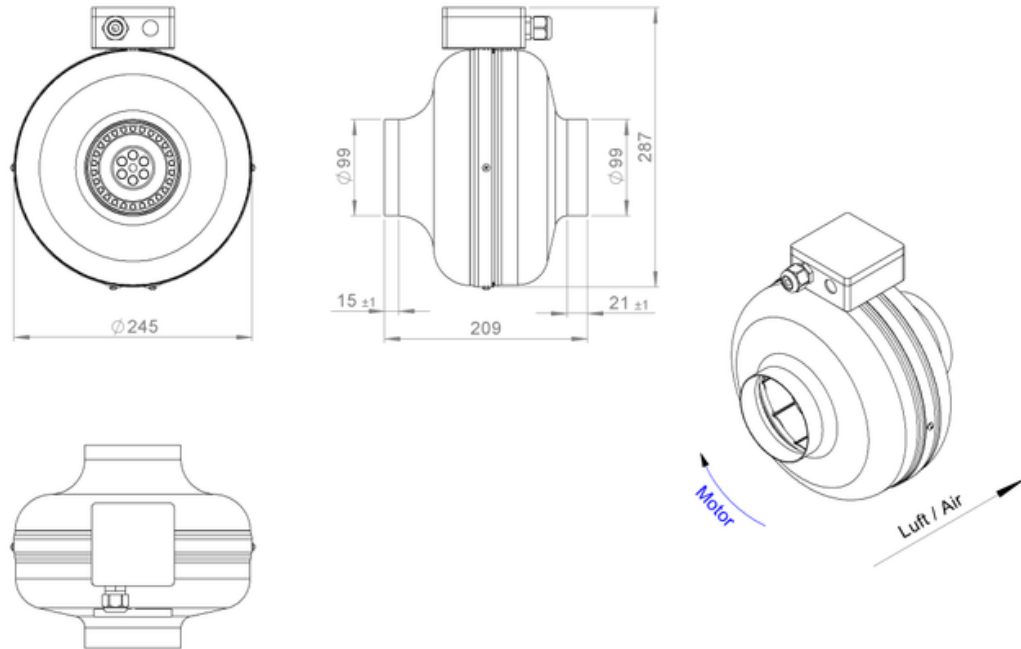
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS





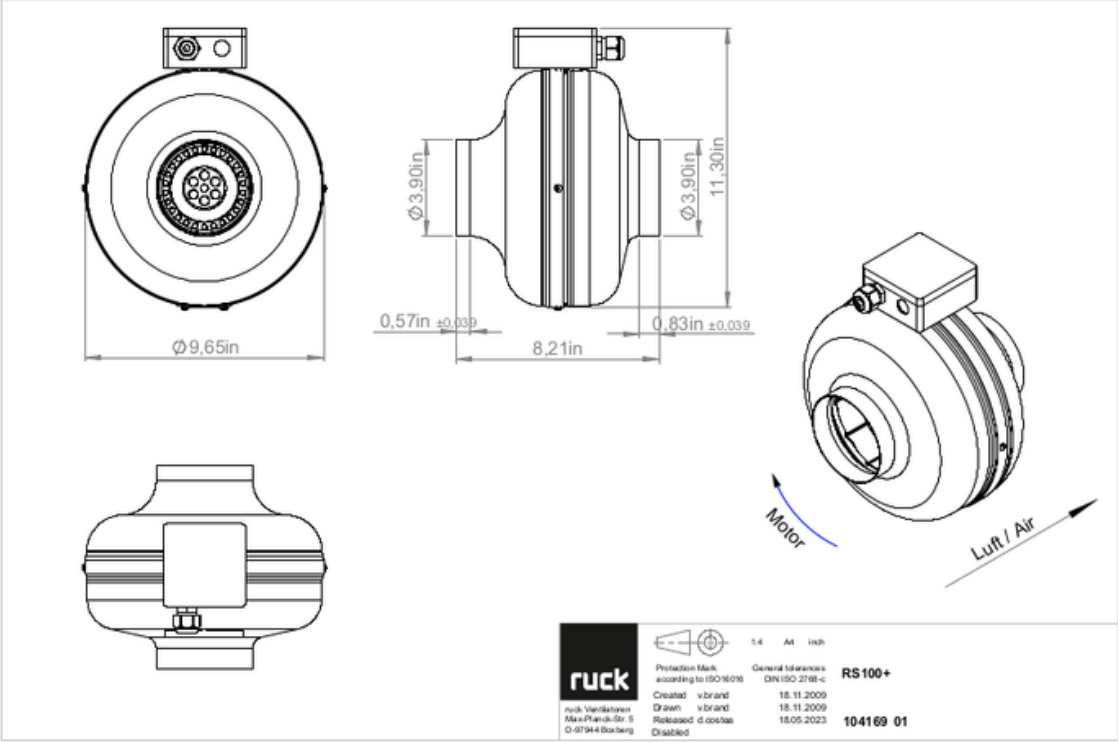
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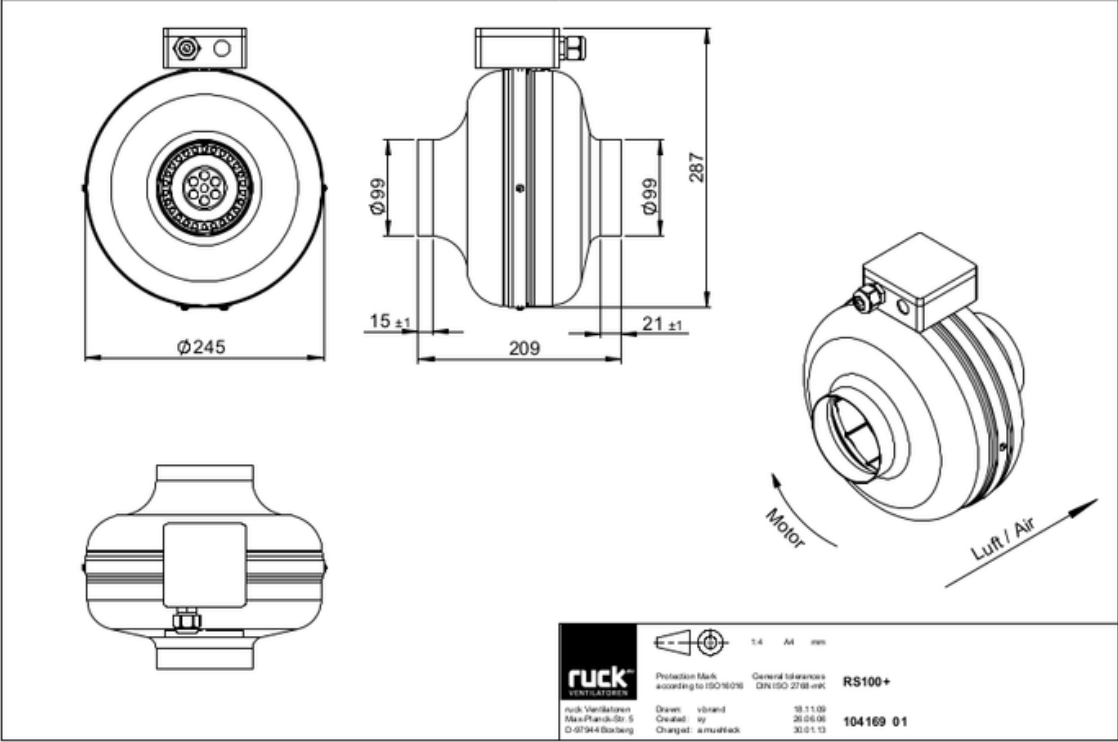
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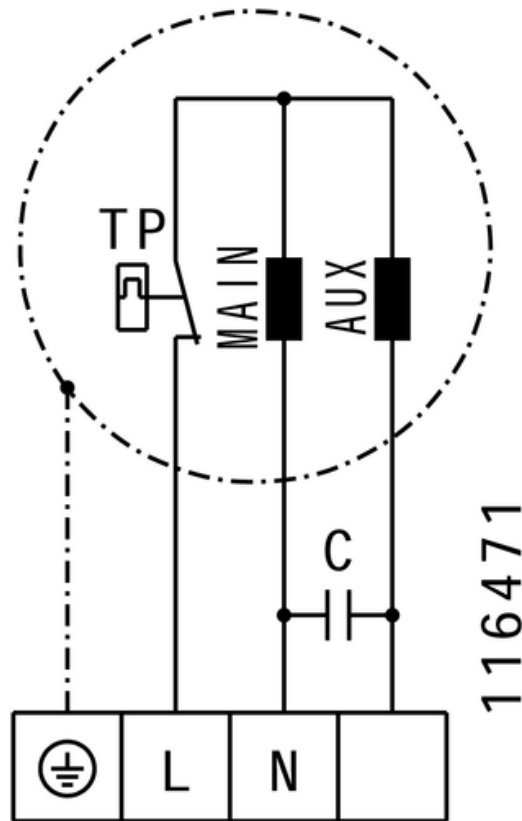
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MECHANICAL ACCESSORIES

VM 100 | 102643



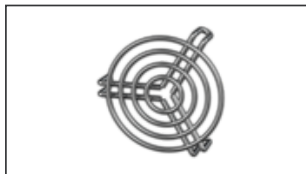
- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

RSK 100 | 102658



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

SG 100 01 | 102894



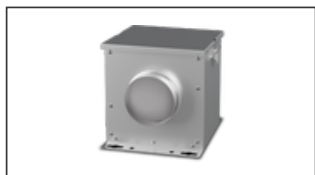
- Protection grille for tube connection
- Galvanized wire

MRS 1 | 110094



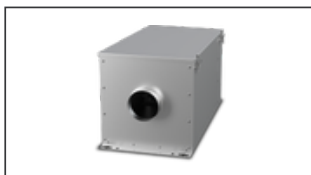
- Mounting bracket
- Galvanized steel sheet
- Includes: Mounting bracket and 2 Phillips screws (6 x 45 mm), 2 dowels (8 x 40 mm)

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

