

RS 160 10

134986

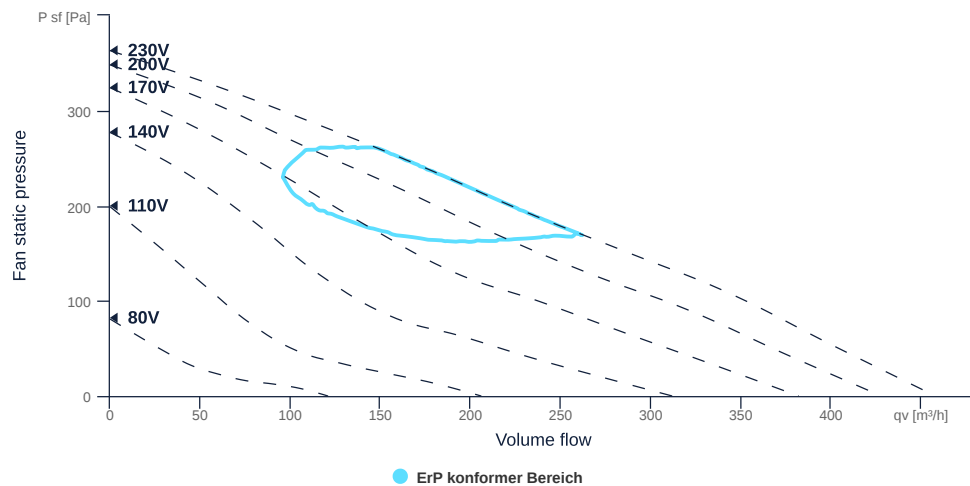
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- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 70 °C in continuous operation
- Integrated thermal switch



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)	DN160		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	2.98	kg	m
Nominal air flow rate, nominal point m³/h	262.8	m³/h	q _{v,nom}
Nominal external pressure, static	169	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	0.07	m³/s	q _{v,nom}
Actual electrical input power, nominal point	0.05	kW	P _{e,nom}
Face velocity, nominal point	3.62	m/s	v _{nom}
Nominal external pressure, static	169	Pa	p _{s,nom}
static efficiency of the extract fan, nominal point	23.7	%	η _{es,EHA}
Enclosure sound level, nominal point	47.64	dba	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)	49	63	W	P _{ed, max}
Max. operating current (device)	0.31	0.36	A	I _{ed, max}
Max. speed	2750	3180	1/min	n _{max}
Max. stat. efficiency	24.6	23.6	%	η _{es}
Max. fan efficiency	25.1	23.9	%	η _e
Max. flowrate	460	490	m³/h	Q _{v, max}
Max. stat pressure	360	480	Pa	p _{sf, max}
Max. medium temperature	70	70	°C	T _{m, max}
Max. environment temperature	70	70	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	80	V	U _{min}
Stall current	0.37	0.37	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~		p _{wsup} _{motor}
Capacity capacitor		2	μF	C _{cond}
Voltage capacitor		400	V	V _{Ucond}
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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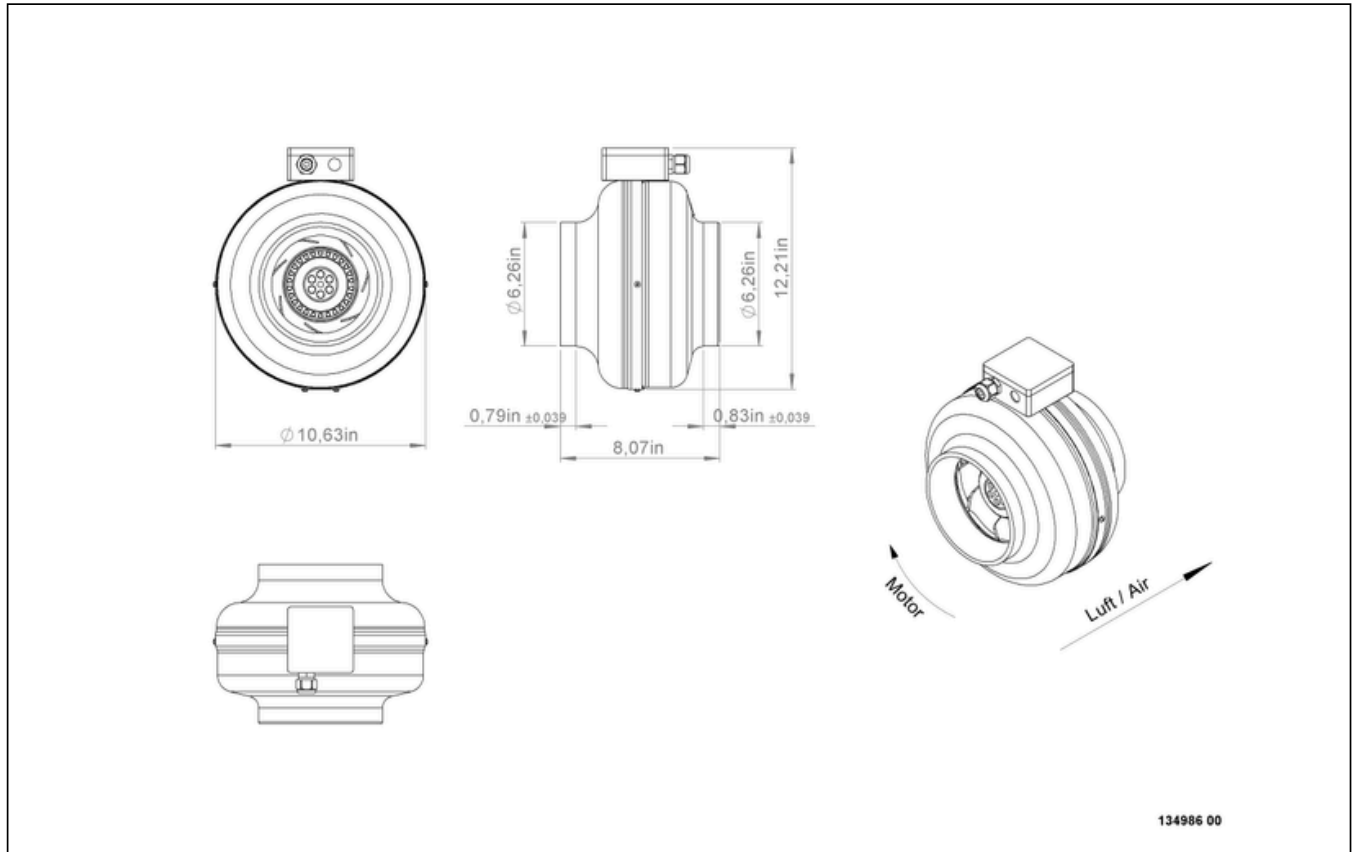


SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



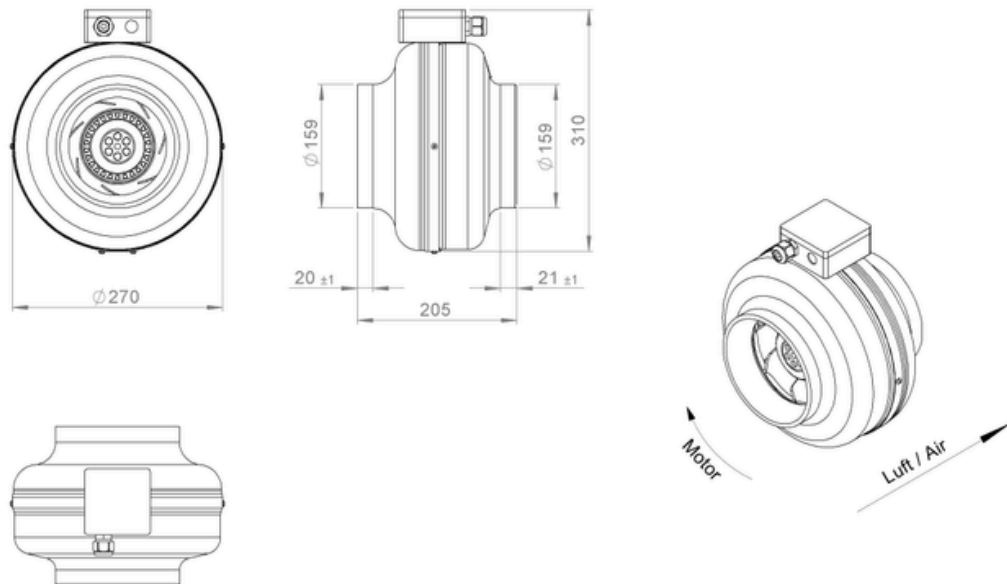
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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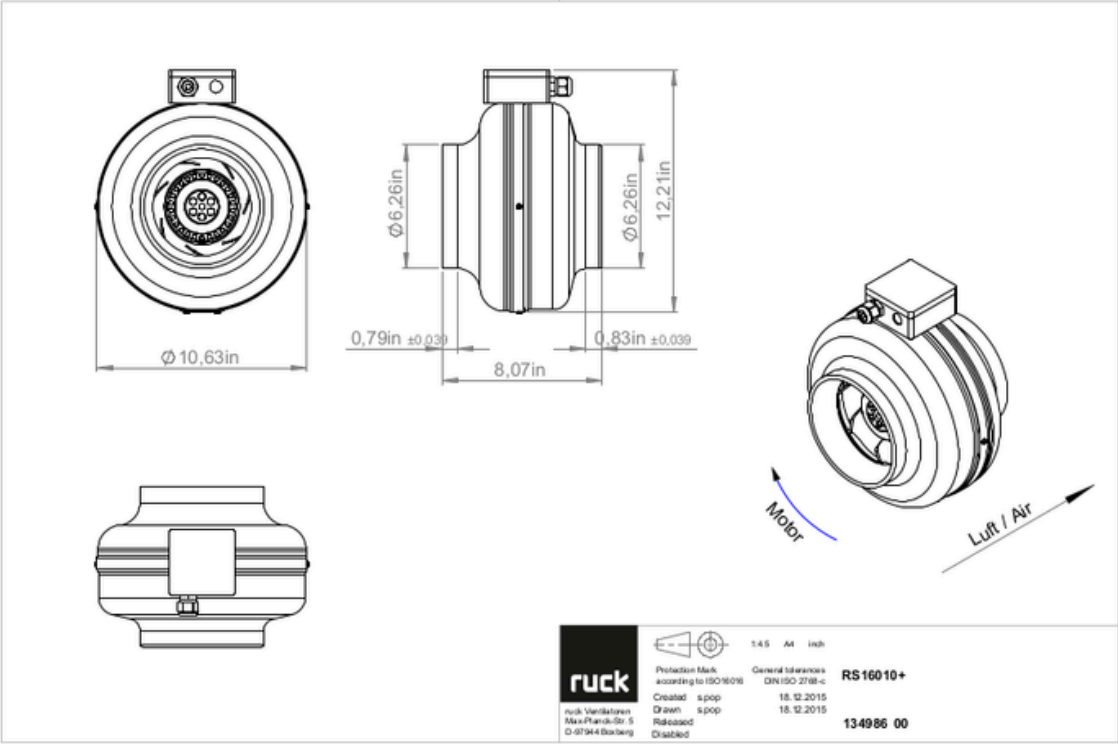


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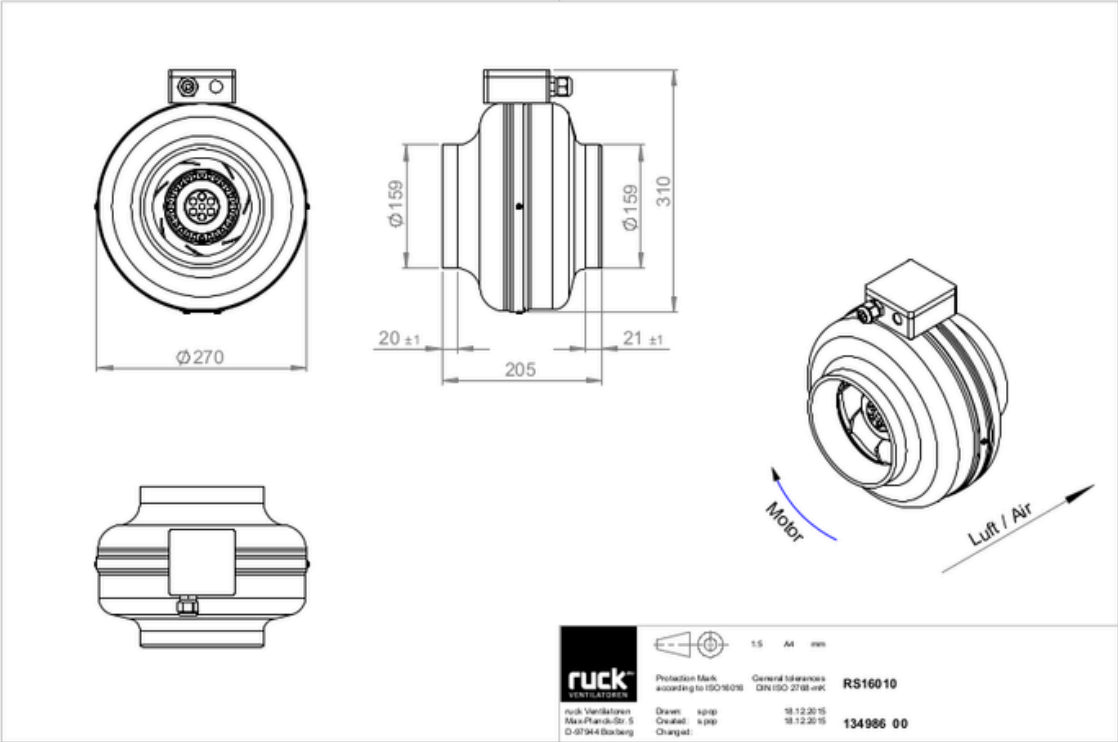
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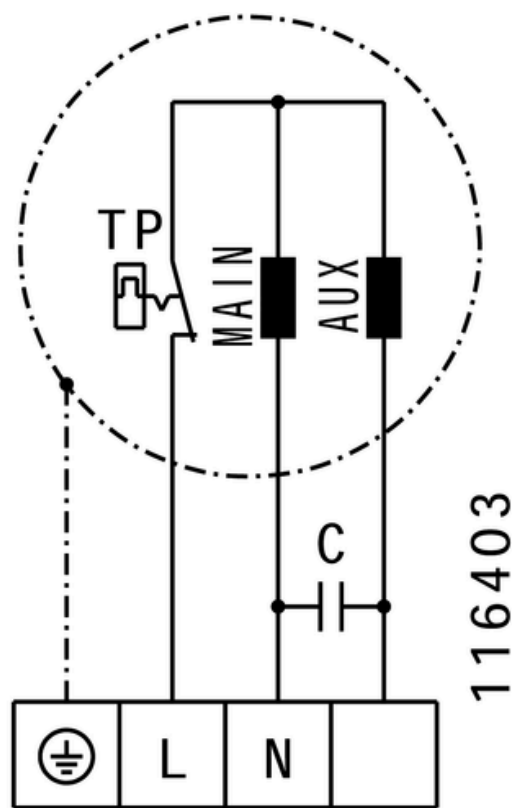


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MECHANICAL ACCESSORIES

VM 160 | 102649



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

RSK 160 | 102661



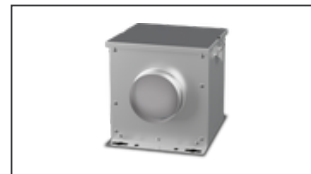
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

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 160 | 112831



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

FT 160 | 112841



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

FTW 160 | 112852



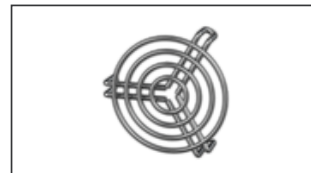
- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

RSK 160D | 113485



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

SG 160 01 | 169591



- Protection grille for tube connection
- Galvanized wire

SDS 160 | 169605



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

SDF 160 | 169642



- 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

