

RS 250L 10

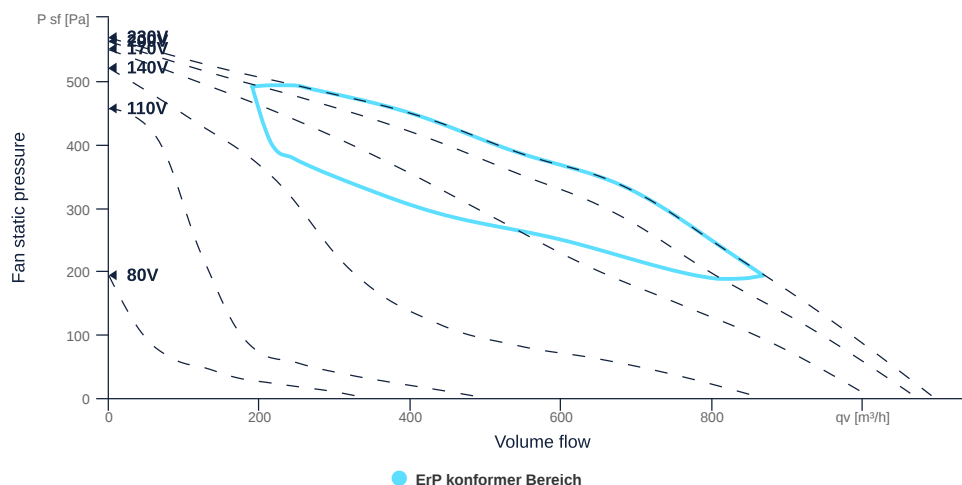
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- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 70 °C in continuous operation
- Integrated thermal switch



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)	DN250		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	5.1	kg	m
Nominal air flow rate, nominal point m³/h	831.6	CmH	qV _{nom}
Nominal external pressure, static	221	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	0.23	CmS	QV _{nom}
Actual electrical input power, nominal point	0.16	kw	Pe _{nom}
Face velocity, nominal point	4.7	mps	V _{nom}
Nominal external pressure, static	221	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	43.3	p	η _{es,SUP}
Highest external air leakage rate	0.29	p	
Enclosure sound level, nominal point	62	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)	161	239	w	P _{ed, max}
Max. operating current (device)	0.88	1.11	A	I _{ed, max}
Max. speed	2910	3440	rpm	n _{max}
Max. stat. efficiency	37.5	34.2	p	η _{es}
Max. fan efficiency	38.3	34.7	p	η _e
Max. flowrate	1090	1260	CmH	q _{v, max}
Max. stat pressure	570	790	Pa	p _{sf, max}
Max. medium temperature	70	45	°C	T _{m, max}
Max. environment temperature	70	45	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	80	v	U _{min}

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	TMI			protectmotor
Protection class	IP33			IP _{motor}
Is pole-changeable	No			polexch
Type of power supply	AC 1~			pwr _{sup} motor
Capacity capacitor	5		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	0.7	1.01	A	I _{rated, f1}
Speed	2685	2896	rpm	n _{f1}
Starting current	1.67	1.55	A	I _{start, f1}
Efficiency	43.2	36.3	p	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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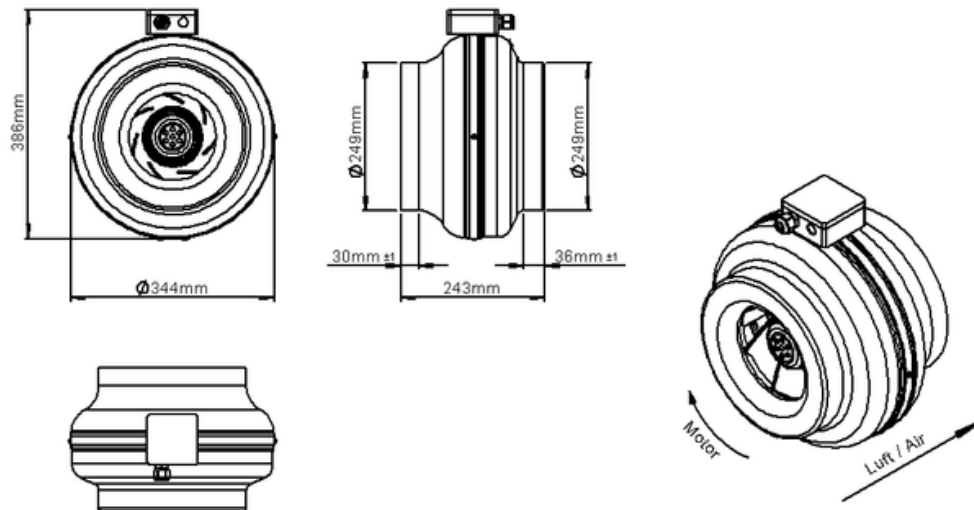
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SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



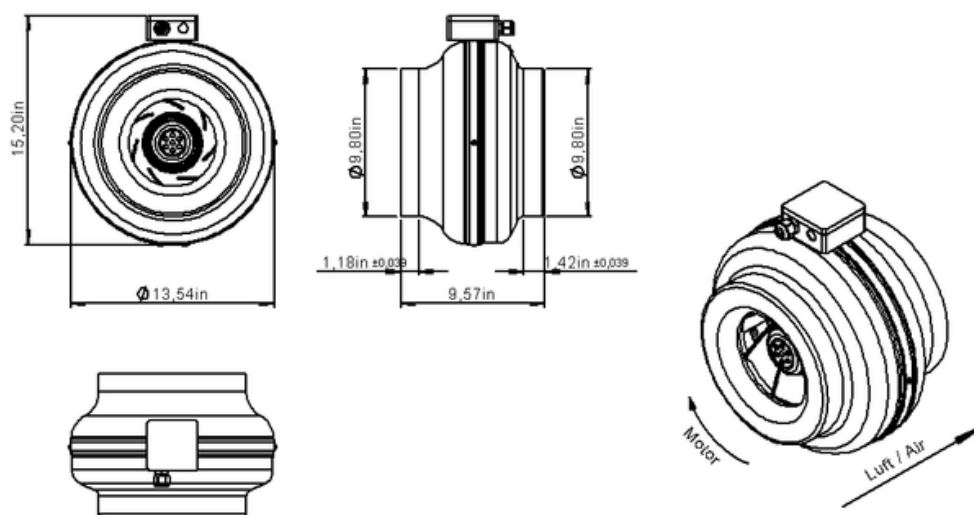
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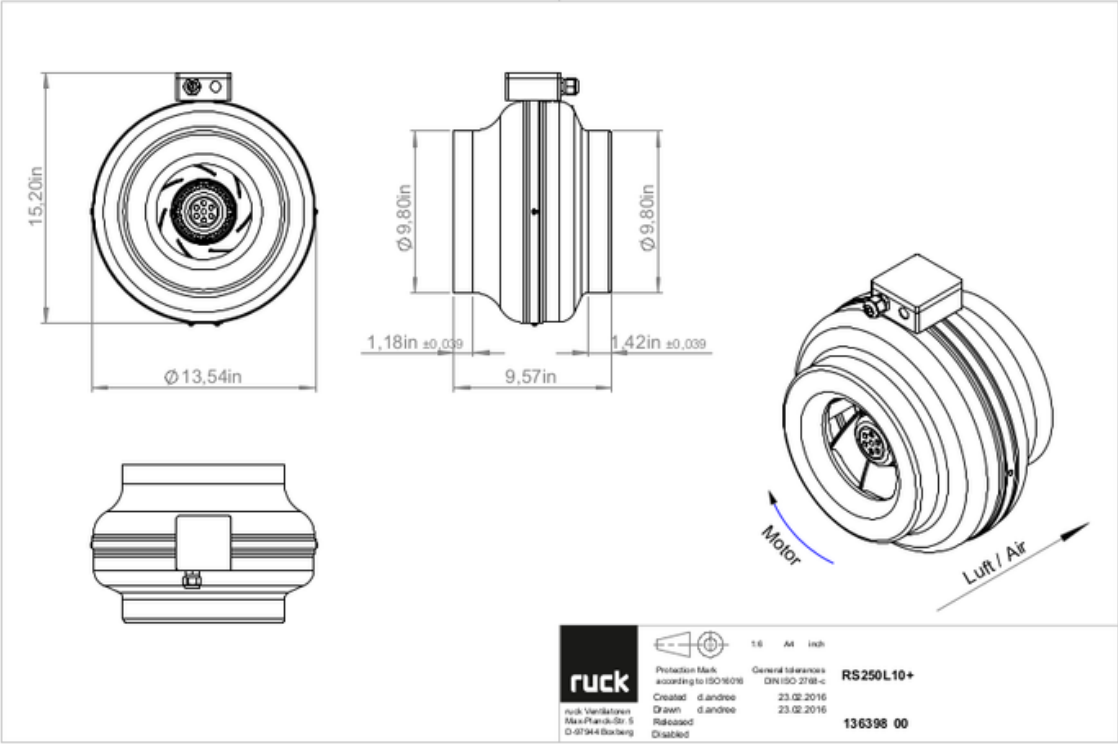
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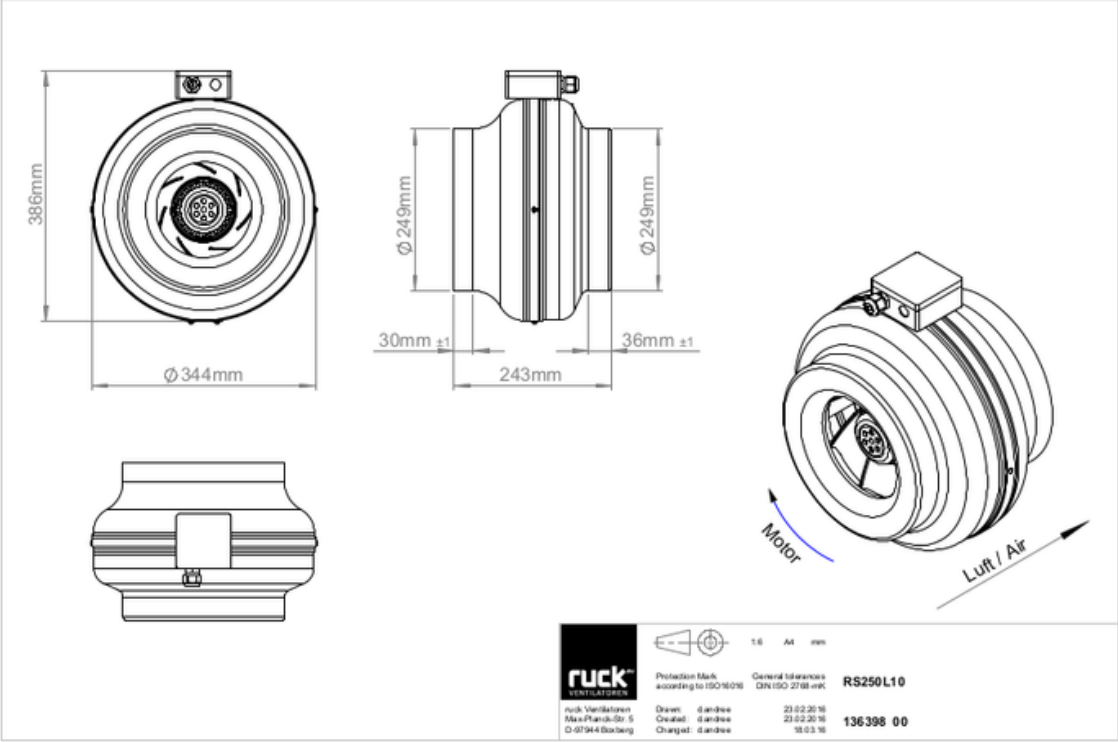
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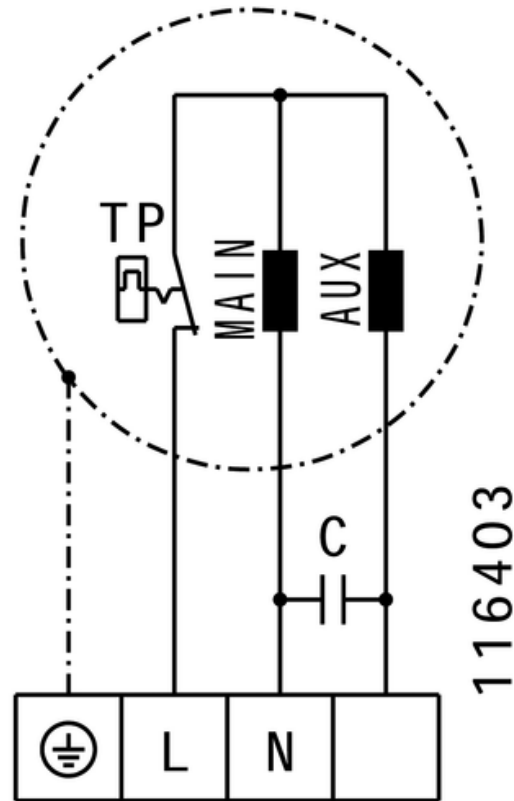
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MECHANICAL ACCESSORIES

VM 250 | 102651



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

RSK 250 | 102686



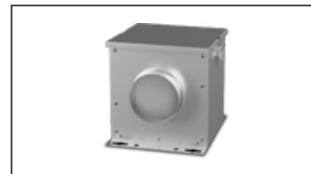
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

MRS 2 | 110095



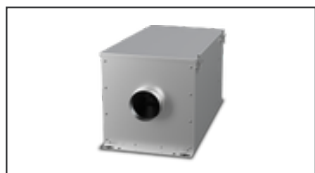
- Mounting bracket
- Galvanized steel sheet
- Includes: Mounting bracket and 2 Phillips screws (6 x 45 mm), 2 dowels (8 x 40 mm)

FV 250 | 112833



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

FT 250 | 112845



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

FTW 250 | 112854



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

RSK 250D | 113488



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

KWR 250 01 | 124065



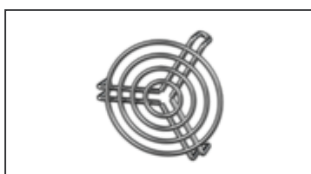
- Cold water cooler, uninsulated
- Version right
- Connection ND 250
- Galvanized steel sheet with condensate tray

KWR 250 02 | 124066



- Cold water cooler, uninsulated
- Version left
- Connection ND 250
- Galvanized steel sheet with condensate tray

SG 250 01 | 169588



- Protection grille for tube connection
- Galvanized wire

SDS 250 | 169607



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

SDF 250 | 169644



- 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

