

KVR 04020EC-32

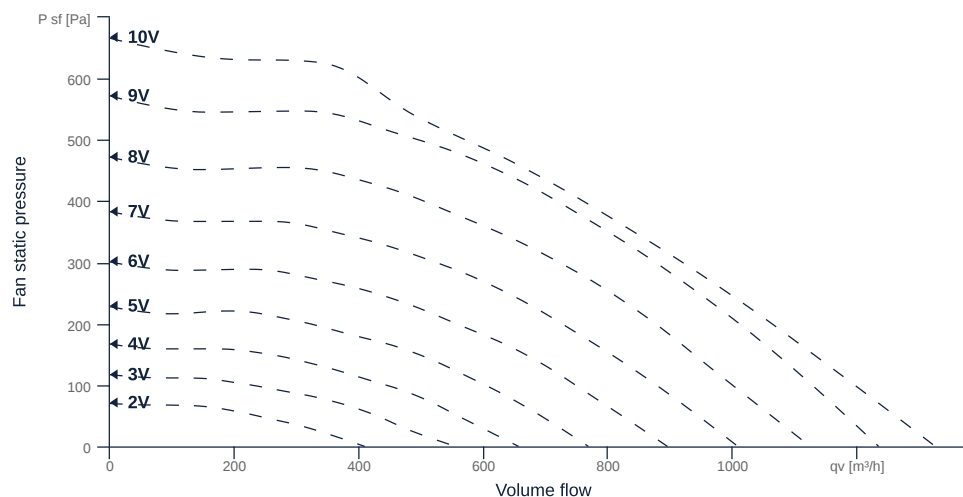
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- Backward curved centrifugal impeller
- Removable fan unit
- Housing made of galvanized sheet steel
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 50 °C in continuous operation



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	400x200		WxH _{duct}
Pipe connection size (DN)	-		DN
Rated voltage (entire device)	230	v	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
Weight	9.1	kg	m
Nominal air flow rate, nominal point m³/h	536.4	CmH	q _{v,nom}
Nominal external pressure, static	294.4	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	0.15	CmS	q _{v,nom}
Actual electrical input power, nominal point	0.09	kw	P _{e,nom}
Face velocity, nominal point	1.9	mps	v _{nom}
Nominal external pressure, static	294.4	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	55	p	η _{es,SUP}
Highest external air leakage rate	0.27	p	
Enclosure sound level, nominal point	74	db	LWA2
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	169	169	w	P _{ed, max}
Max. operating current (device)	1.41	1.41	A	I _{ed, max}
Max. speed	2795	2795	rpm	n _{max}
Max. stat. efficiency	48.4	48.4	p	η _{es}
Max. fan efficiency	48.7	48.7	p	η _e
Max. flowrate	1325	1325	CmH	q _{v, max}
Max. stat pressure	670	670	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}



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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		protectmotor
Protection class		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Rated voltage	230	230	v	U _{rated, f1}
Rated current	1.2	1.2	A	I _{rated, f1}
Speed	2600	2600	rpm	n _{r1}
Efficiency	46.9	46.9	p	η _{m, f1}
Min. temperature	-30	-30	°C	T _{motor, min}
Cos Phi	0.600000	0.600000		cos φ
UL-Certification motor		None		ULcert

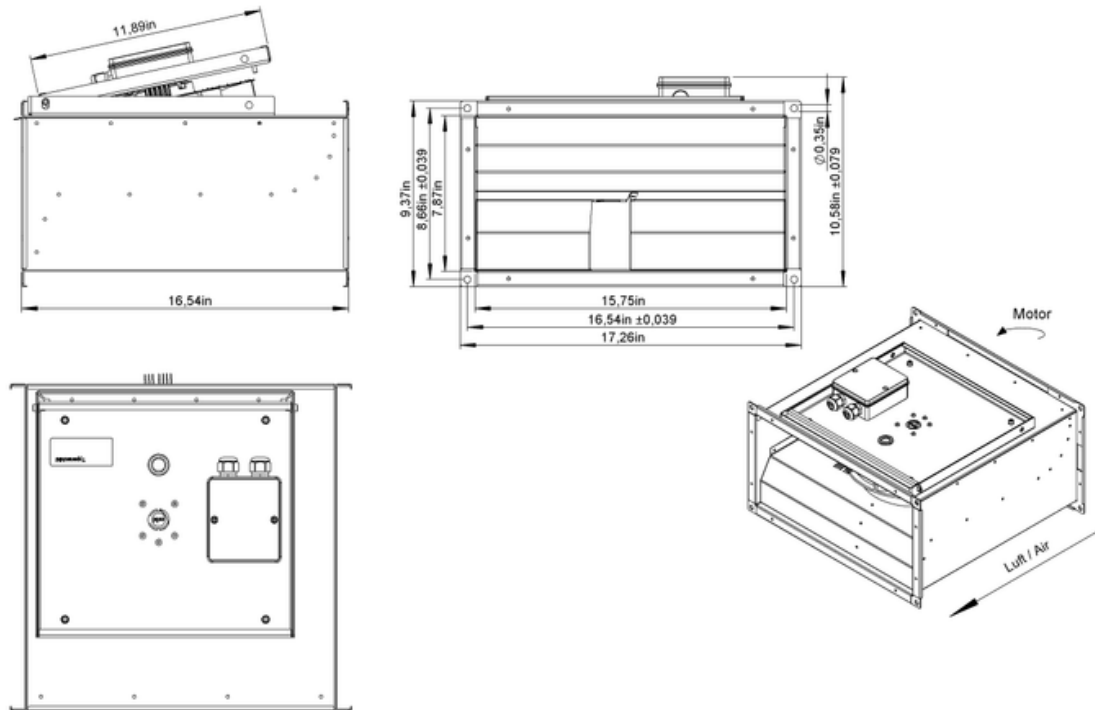
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

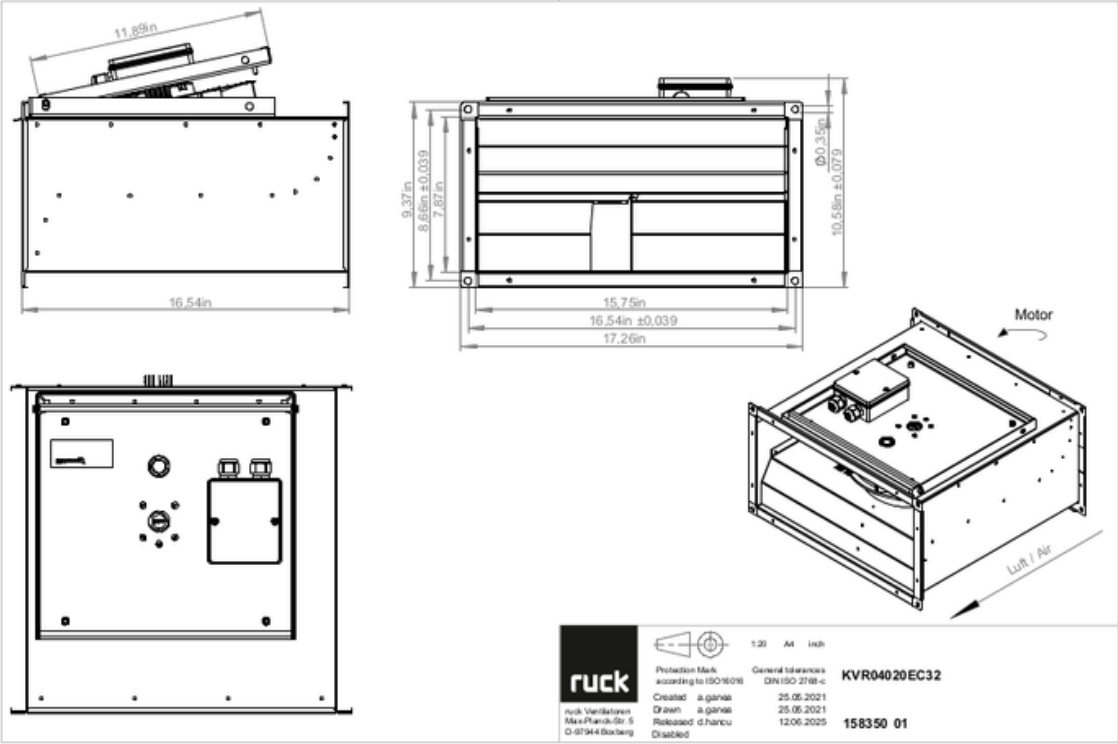


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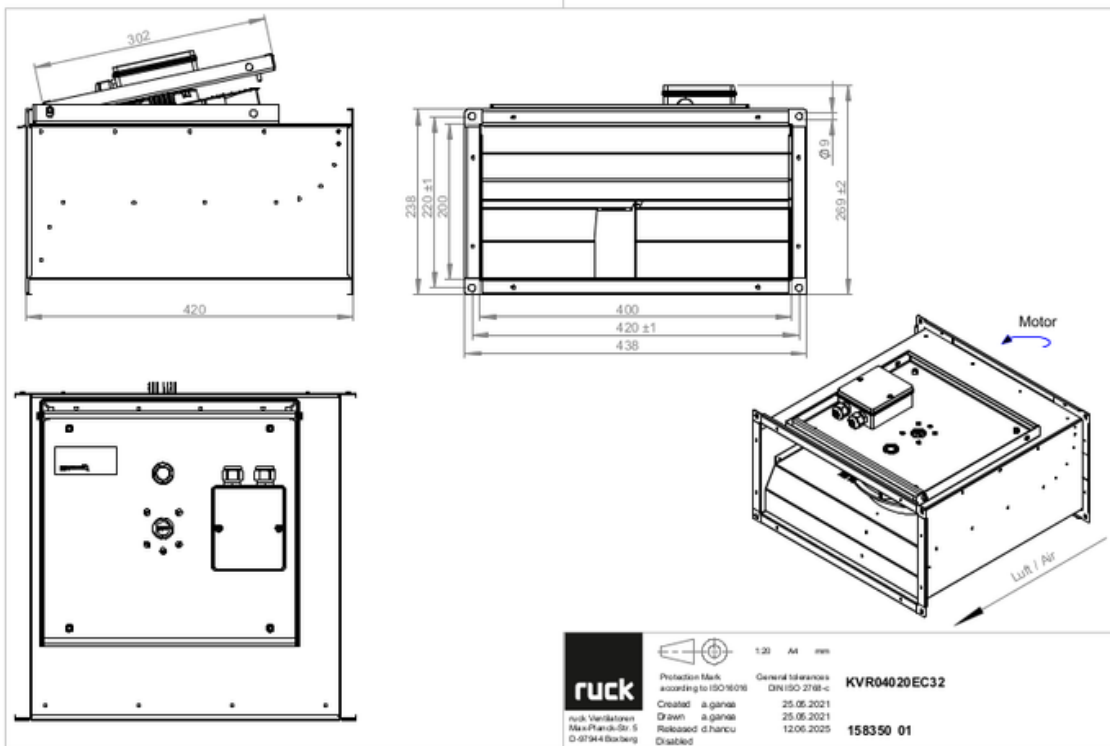


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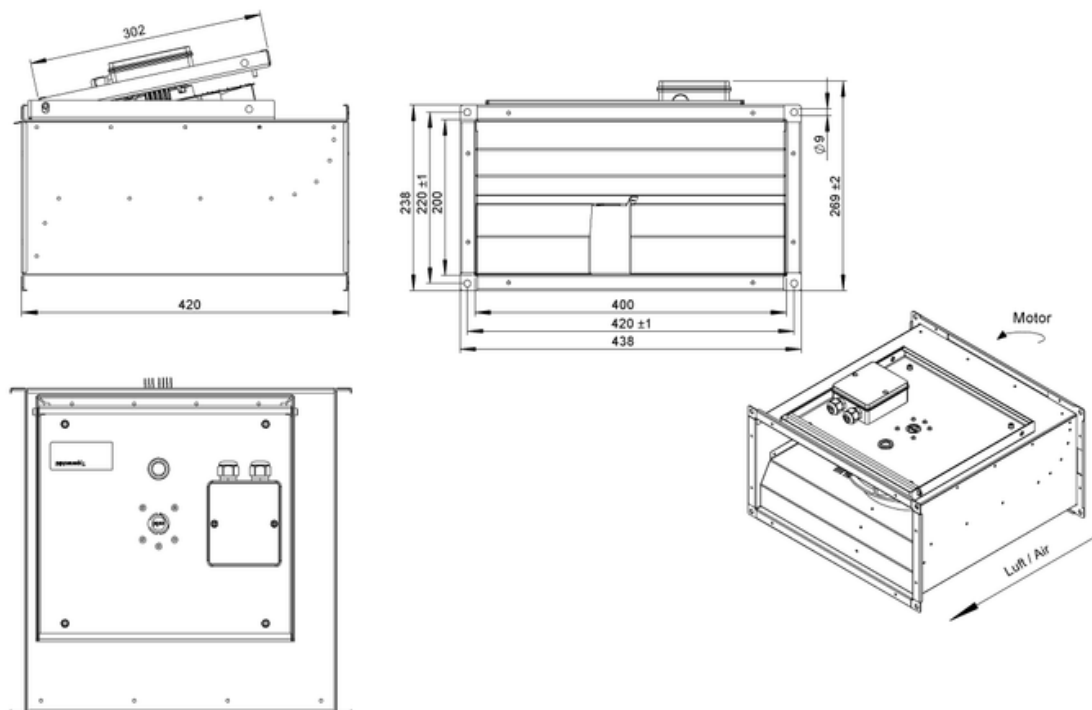
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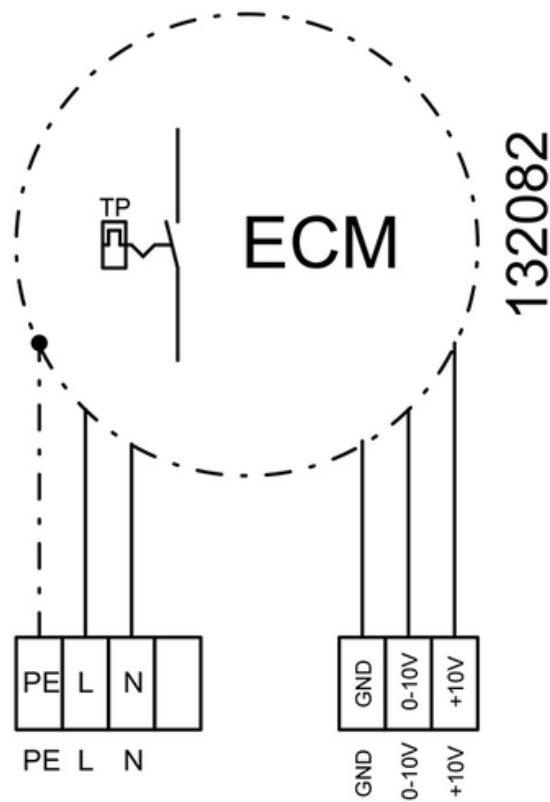
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MECHANICAL ACCESSORIES

VS 4020 | 102802



- Duct connector, flexible
- Standard profile flange P20
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C

VKK 4020 | 169680



- Automatic shutter
- Plastic, weather resistant
- Temperature resistant up to 70 °C



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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

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

