

EMKI 10050 EC 22

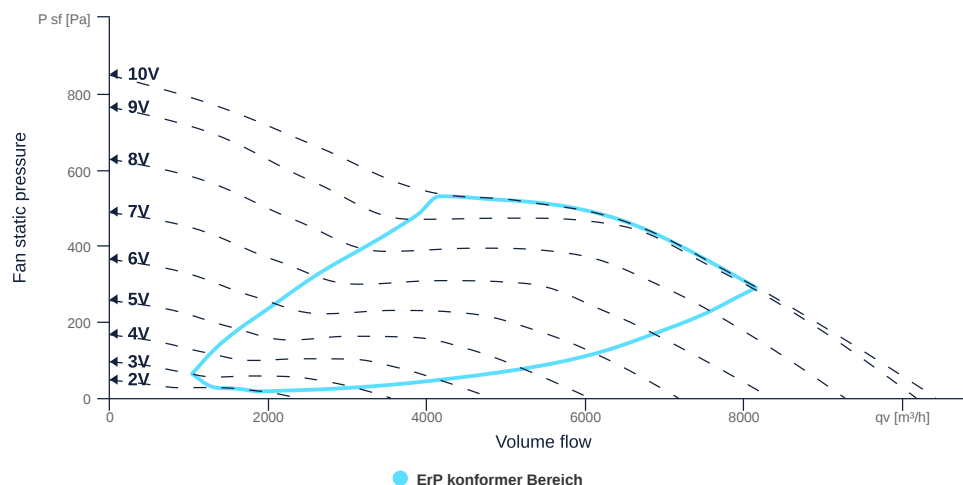
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- Efficiency optimized diagonal fan
- Optimally tuned and CFD-optimized aerodynamics
- Soundproof housing made of galvanized sheet steel
- Removable fan unit
- High efficiency EC motor, steplessly controllable
- Internal electronic temperature monitoring



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	1000x500		WxH _{duct}
Pipe connection size (DN)	-		DN
Rated voltage (entire device)	230	v	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
Weight	38	kg	m
Nominal air flow rate, nominal point m³/h	6098.4	CmH	q _{v,nom}
Nominal external pressure, static	427.2	Pa	p _{s,nom}
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	1.69	CmS	q _{v,nom}
Actual electrical input power, nominal point	1.23	kw	P _{e,nom}
Face velocity, nominal point	3.4	mps	v _{nom}
Nominal external pressure, static	427.2	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	63.4	p	η _{es,SUP}
Enclosure sound level, nominal point	73	db	LWA2
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	1462	1462	w	P _{ed, max}
Max. operating current (device)	6.72	6.72	A	I _{ed, max}
Max. speed	2630	2630	rpm	n _{max}
Max. stat. efficiency	54.4	54.4	p	η _{es}
Max. fan efficiency	55.2	55.2	p	η _e
Max. flowrate	10410	10410	CmH	q _{v, max}
Max. stat pressure	840	840	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	230	230	v	U _{min}



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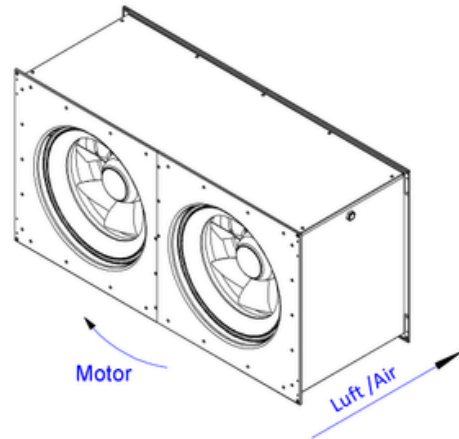
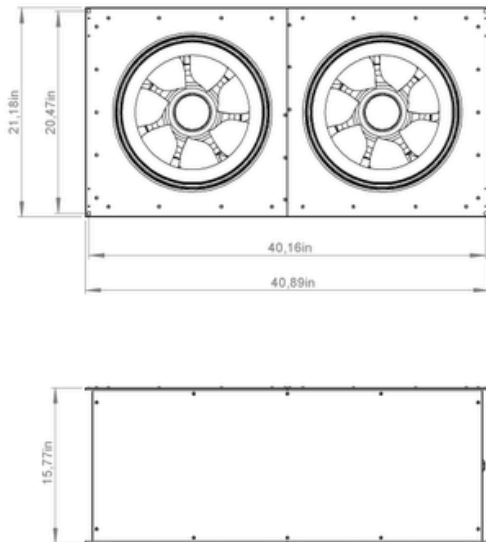
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MOTOR DATA

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		IP20		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Rated voltage	230	230	v	Urated, f1
Rated current	3.3	3.3	A	Irated, f1
Nominal power	600	600	w	Pa
Speed	2300	2300	rpm	nf1
UL-Certification motor		UL recognized		ULcert

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

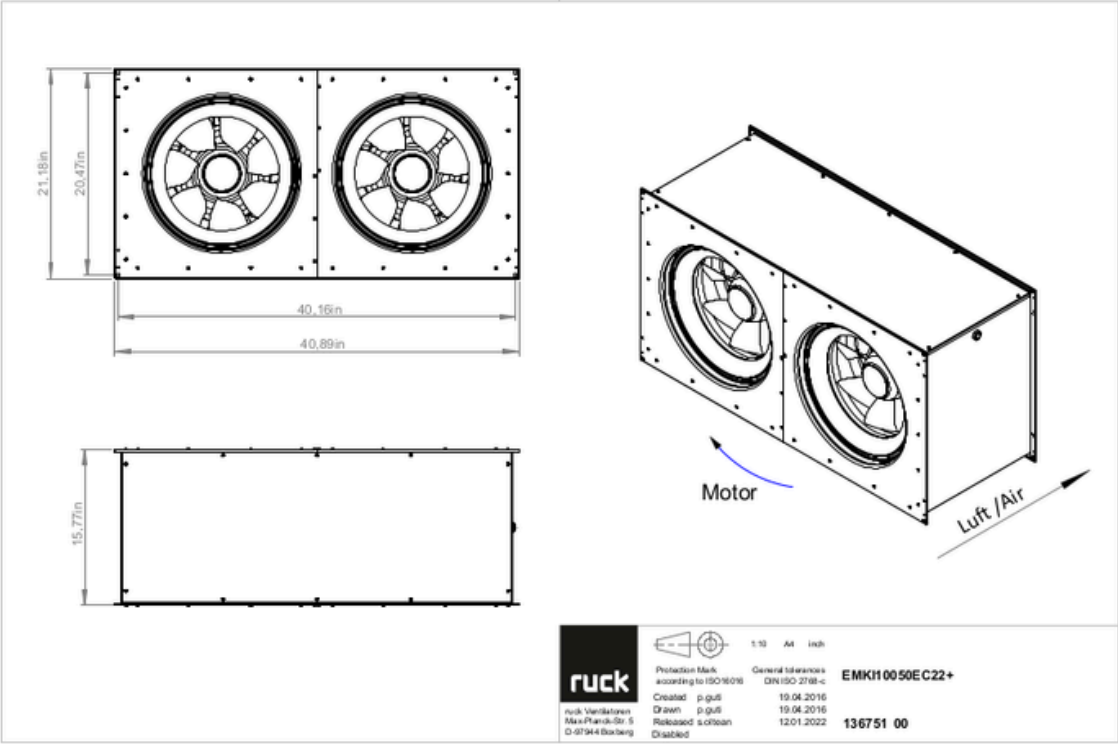


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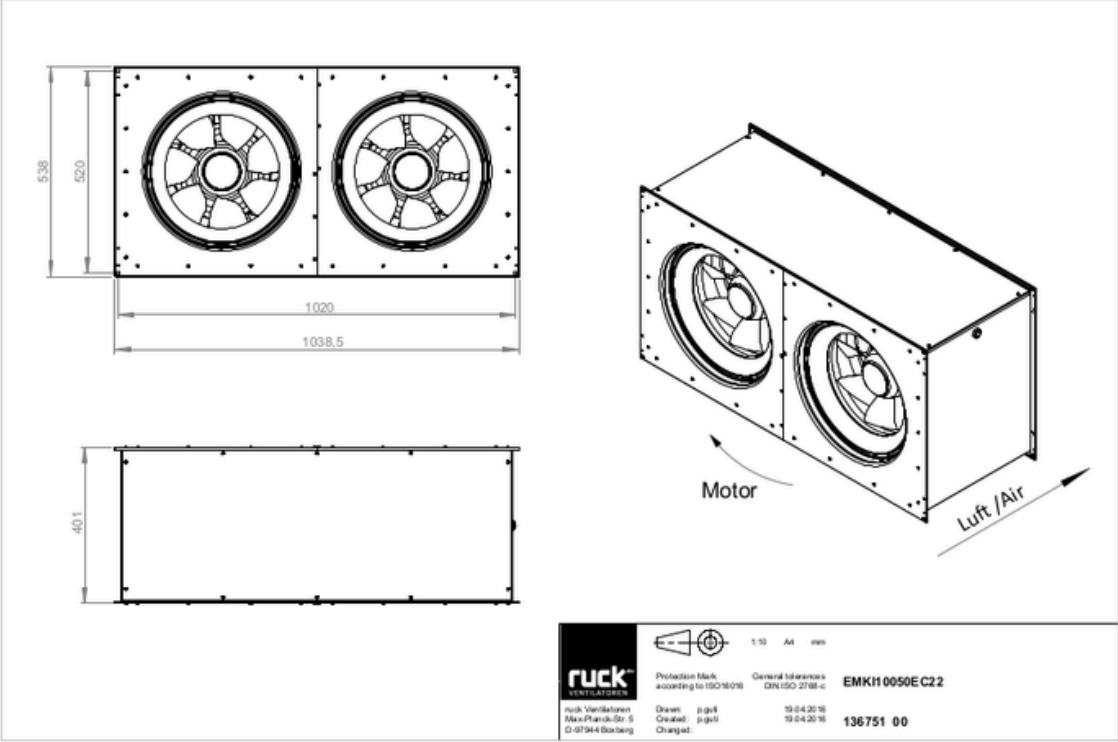
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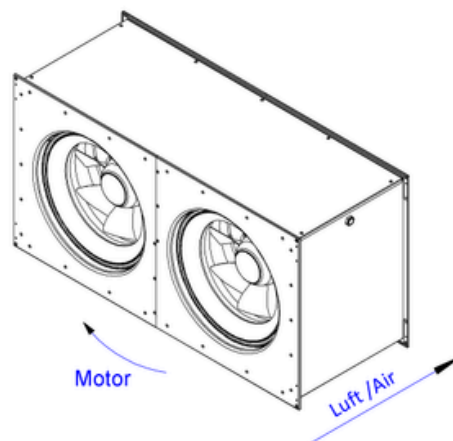
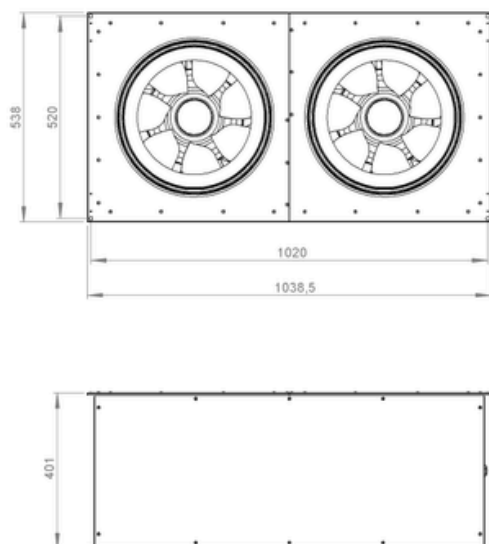


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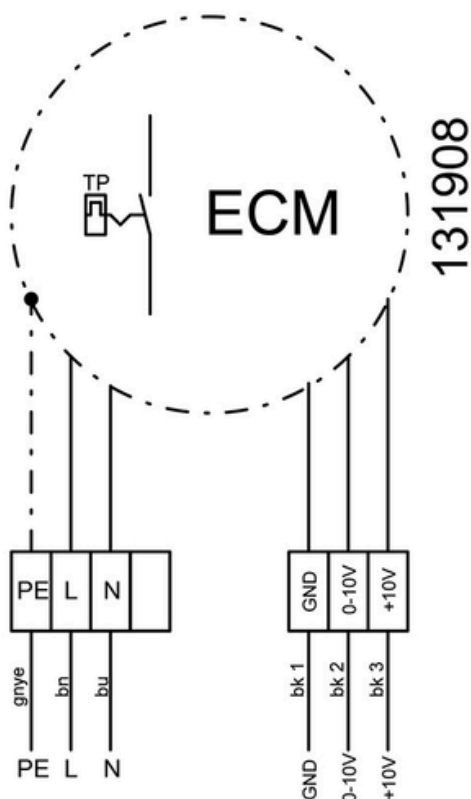
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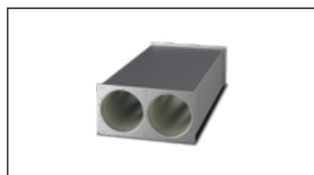
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MECHANICAL ACCESSORIES

SDE 10050 L02 | 130352



- Duct silencer
- Sendzimir galvanized sheet steel housing
- Sound absorption by mineral wool with fleece covering on air side
- 20 mm flange profiles

VKK 10050 | 169687



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

VS 10050 | 172499



- Duct connector, flexible
- Standard profile flange P30
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C



ELECTRICAL ACCESSORIES

GS 01 | 102787



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

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

