

DVNI 450 EC 30

145180

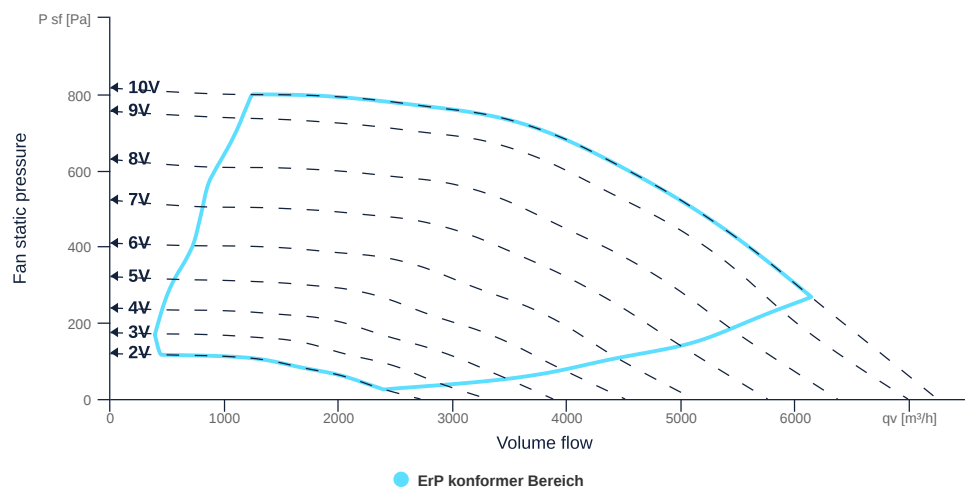
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- Backward curved radial impeller
- Vertical discharge
- Housing: insulated, AlMg3, hinged, grease drain
- High efficiency EC motor, steplessly controllable
- For greasy kitchen exhaust air, up to 120 °C
- Integrated device switch



MAP

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)	DN400		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Aluminium		mat _{casing}
Impeller material	Steel		mat _{impeller}
Weight	103.4	kg	m
Nominal air flow rate, nominal point m³/h	3376.8	m³/h	q _{v,nom}
Nominal external pressure, static	406.2	Pa	p _{s,nom}
Fan type	Radial		F _{an} type
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	0.94	m³/s	q _{v,nom}
Actual electrical input power, nominal point	0.61	kW	P _{e,nom}
Face velocity, nominal point	5.3	m/s	v _{nom}
Nominal external pressure, static	406.2	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	65.7	%	η _{es,SUP}
Enclosure sound level, nominal point	83	dB(A)	L _{WA2}
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	1240	1240	W	P _{ed, max}
Max. operating current (device)	8.87	8.87	A	I _{ed, max}
Max. speed	1640	1640	1/min	n _{max}
Max. stat. efficiency	57.5	57.5	%	η _{es}
Max. fan efficiency	59.9	59.9	%	η _e
Max. flowrate	7240	7240	m³/h	q _{v, max}
Max. stat pressure	820	820	Pa	p _{sf, max}
Max. medium temperature	120	120	°C	T _{m, max}
Max. environment temperature	50	50	°C	T _{amb, max}
Min. environment temperature	-20	-20	°C	T _{amb, min}



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MOTOR DATA

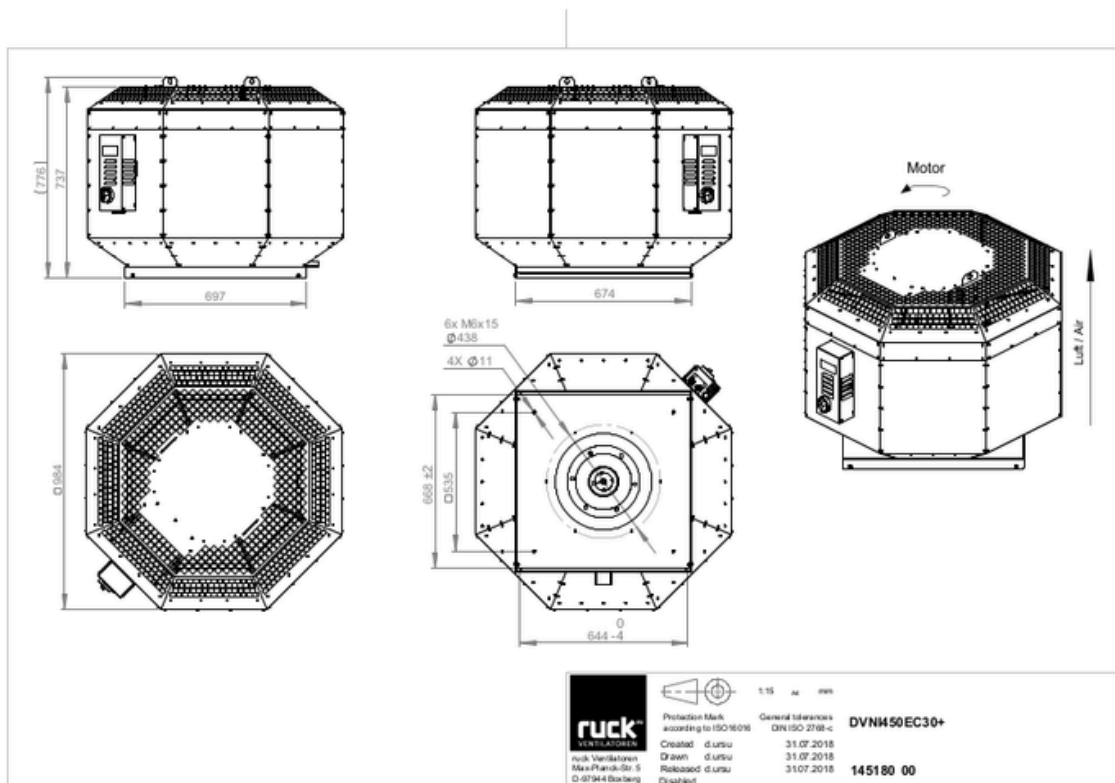
Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		EC		phase
Control type		stepless-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Protection class		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrSUPmotor
Rated voltage	230		V	Urated, f1
Rated current	8		A	Irated, f1
Shaft power	1100		W	Pout, f1
Speed	2100		1/min	nf1
UL-Certification motor		None		ULcert

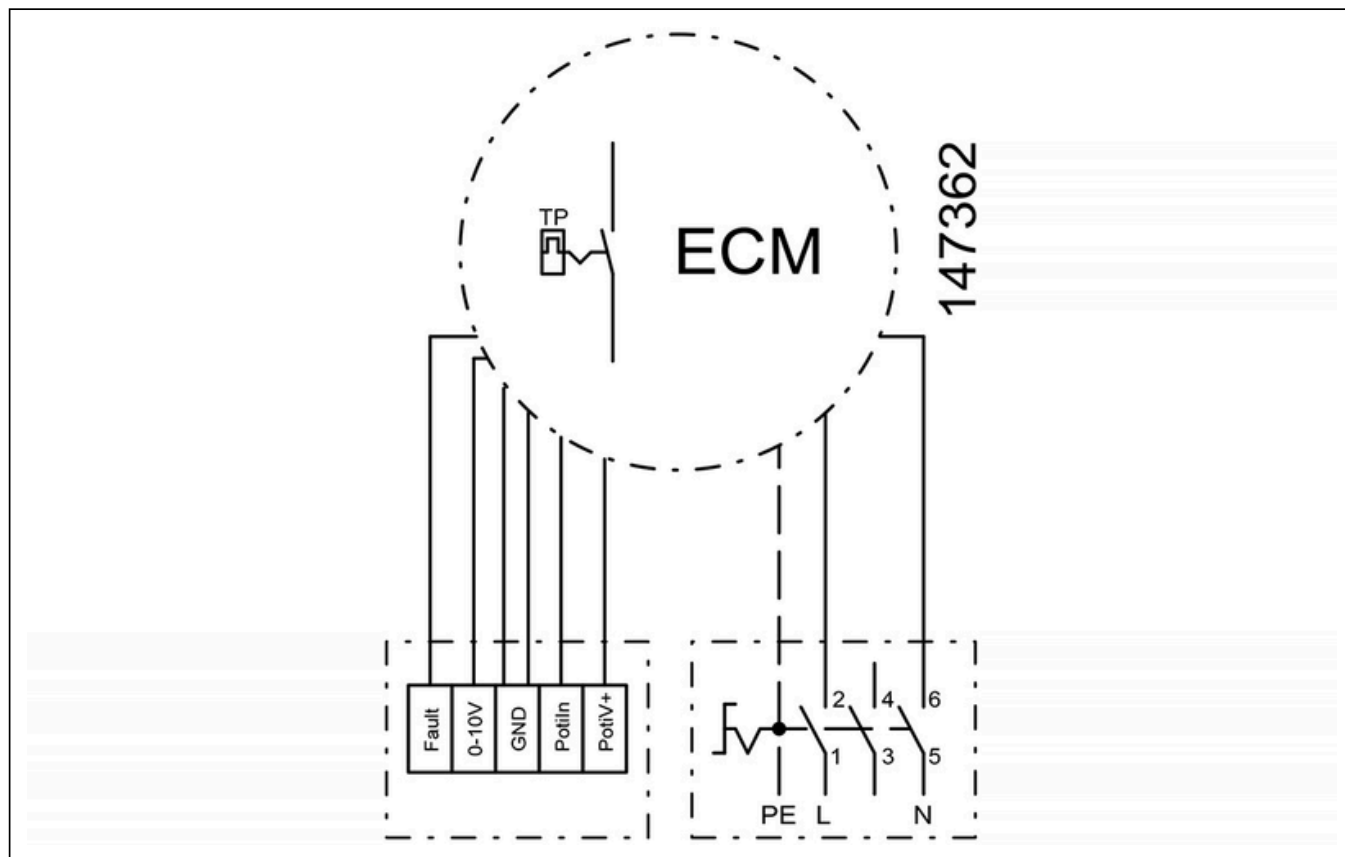
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

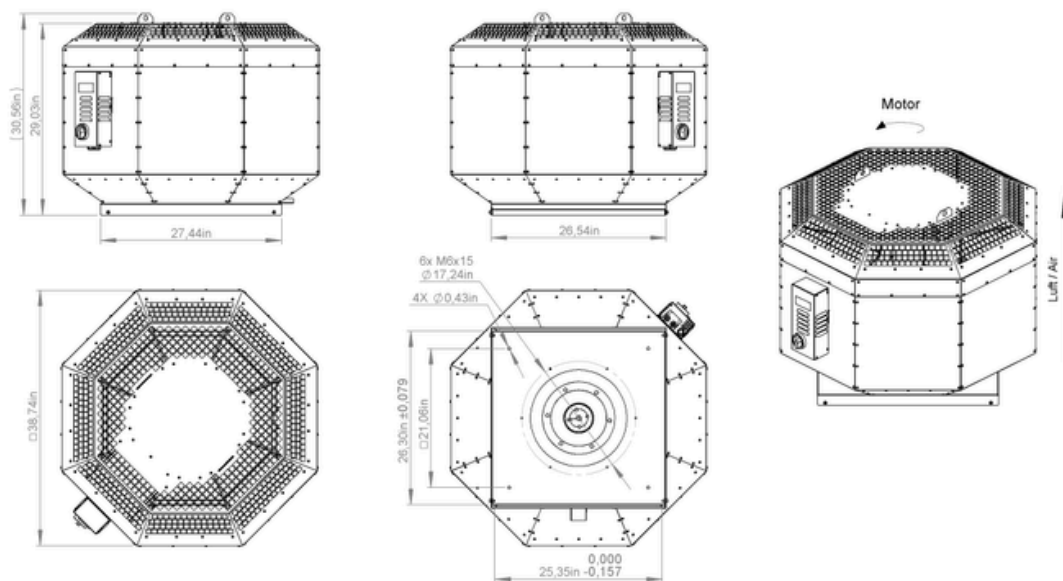




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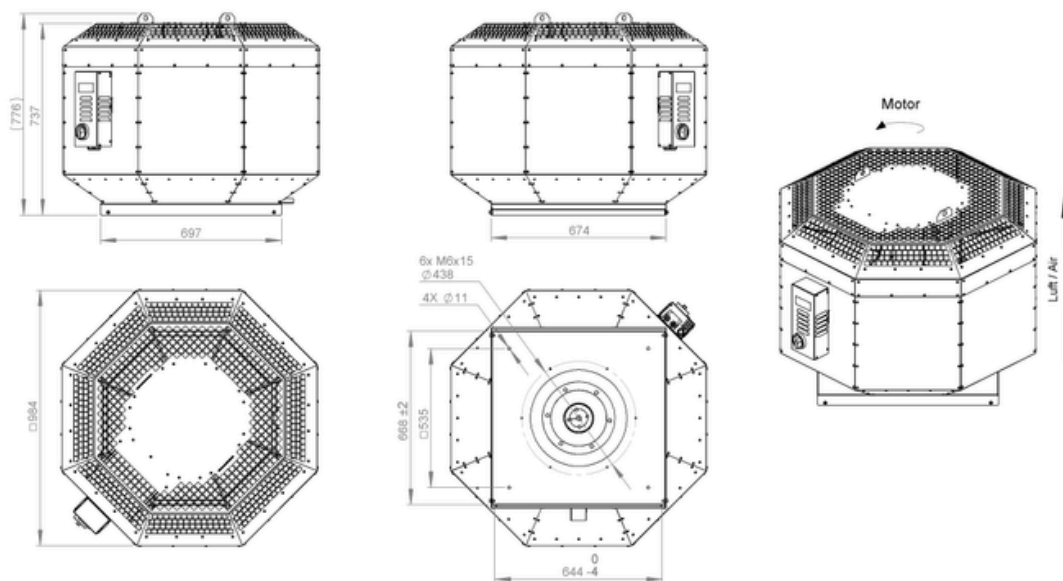


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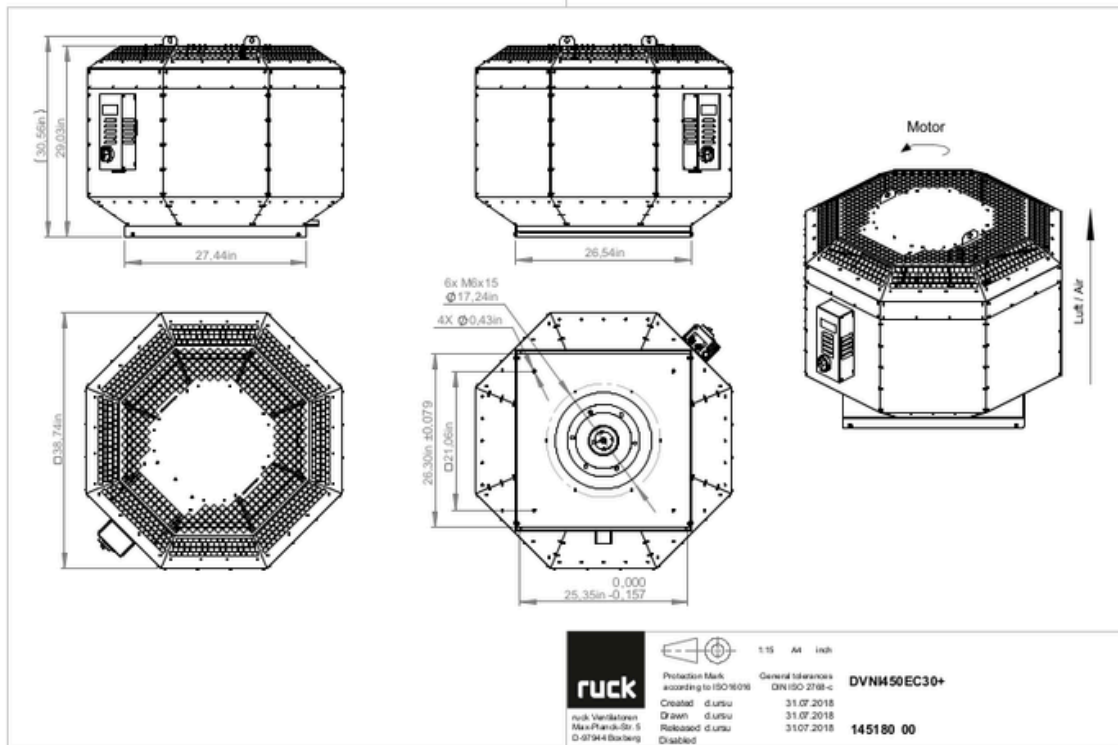
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MECHANICAL ACCESSORIES

DVK 400 10 | 152897



- Automatic roof shutter
- Galvanized steel sheet

DAF 400 | 109826



- Roof inlet flange
- Galvanized steel sheet

DSF 450-10 | 126193



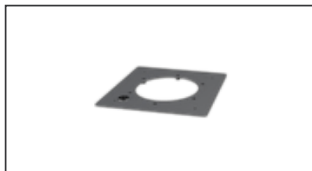
- Flat roof socket
- Made of aluminum AlMg3
- Sound and heat insulation

DSF 450-12 | 133850



- Sloped roof socket
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°

DAP 450 | 133976



- Adapter plate for roof mounting of roof fans
- Galvanized steel sheet

DSS 450-10 | 126461



- Flat roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation

DSS 450-12 | 134444



- Sloped roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°

DAS 400 F4 | 150093



- Flexible roof inlet spigot F4
- Temperature resistant up to 400 °C



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ELECTRICAL ACCESSORIES

MTP 20 | 128146



- Potentiometer 10 kΩ
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

MTP 30 | 143289



- Stepped potentiometer 10 kΩ
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage +10 Vdc

MTP 40 | 147359



- Potentiometer 10 kΩ
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

SEN AIR | 148641



- Airflow and temperature transducer
- Measuring range temperature 0...+50 °C
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to 20 m/s

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

SEN P1000 | 126080



- Differential pressure sensor
- P-control, PV-control
- P = 2 pcs. required, PV = 1 pcs. required

MTP 50 | 153133



- Potentiometer with multifunction output
- 230 VAC ±10 % / 50-60 Hz
- Selectable output: 1-10 VDC / 2-20 mA / 10-100 % PWM
- Min. and max. output value adjustable



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