

DVNI 450 D4 30

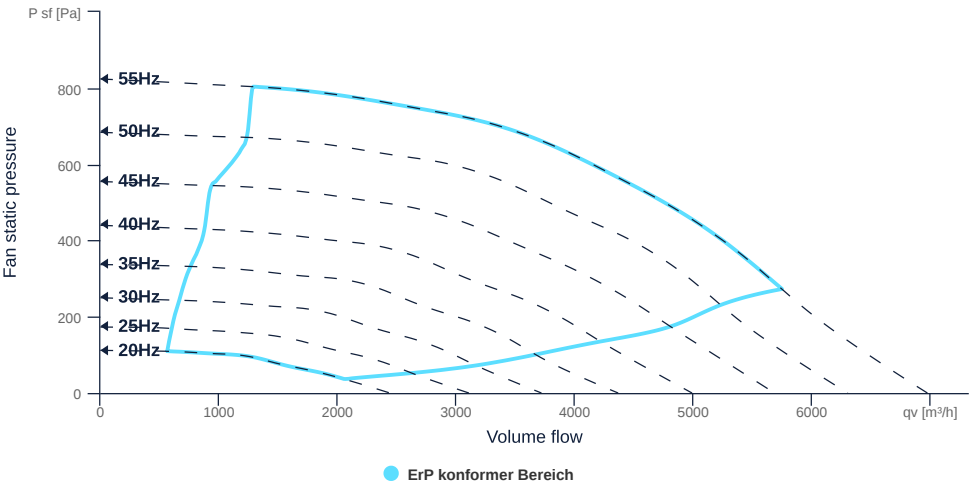
145041

- Backward curved radial impeller
- Vertical discharge
- Housing: insulated, AlMg3, hinged, grease drain
- Efficient IE3 motor, frequency 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



to the product detail page

DVNI 450 D4 30

145041

ruck

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxH _{duct}
Pipe connection size (DN)	DN400		DN
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 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	5709.6	m³/h	q _{v,nom}
Nominal external pressure, static	293	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	1.59	m³/s	q _{v,nom}
Actual electrical input power, nominal point	1.05	kW	P _{e,nom}
Face velocity, nominal point	5.9	m/s	v _{nom}
Nominal external pressure, static	293	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	63.4	%	η _{es,SUP}
Enclosure sound level, nominal point	84	dB(A)	L _{WA2}
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	901	W	P _{ed, max}
Max. operating current (device)	2.29	A	I _{ed, max}
Max. speed	1640	1/min	n _{max}
Max. stat. efficiency	56.4	%	η _{es}
Max. fan efficiency	57.2	%	η _e
Max. flowrate	6975	m³/h	q _{v, max}
Max. stat pressure	820	Pa	p _{sf, max}
Max. medium temperature	120	°C	T _{m, max}
Max. environment temperature	50	°C	T _{amb, max}
Min. environment temperature	-20	°C	T _{amb, min}



to the product detail page

DVNI 450 D4 30

145041

ruck

MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 3~		phase
Control type		frequency-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Protection class		IP55		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwrsupmotor
Number of poles (1)		4.000000		num polesw1
Connection	Δ			wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	230		V	Urated, f1
Rated voltage (wiring 2)	400		V	Urated, f2
Rated current	4.23		A	Irated, f1
Rated current (wiring 2)	2.45		A	Irated, f2
Shaft power	1100		W	Pout, f1
Shaft power (wiring 2)	1100		W	Pout, f2
Speed	1450		1/min	n _{f1}
Speed (wiring 2)	1450		1/min	n _{f2}
Starting current	7.6		A	Istart, f1
Starting current (wiring 2)	7.6		A	Istart, f2
Efficiency class	IE3			IEmotor
Min. temperature	-20		°C	Tmotor, min
UL-Certification motor		UL recognized		ULcert



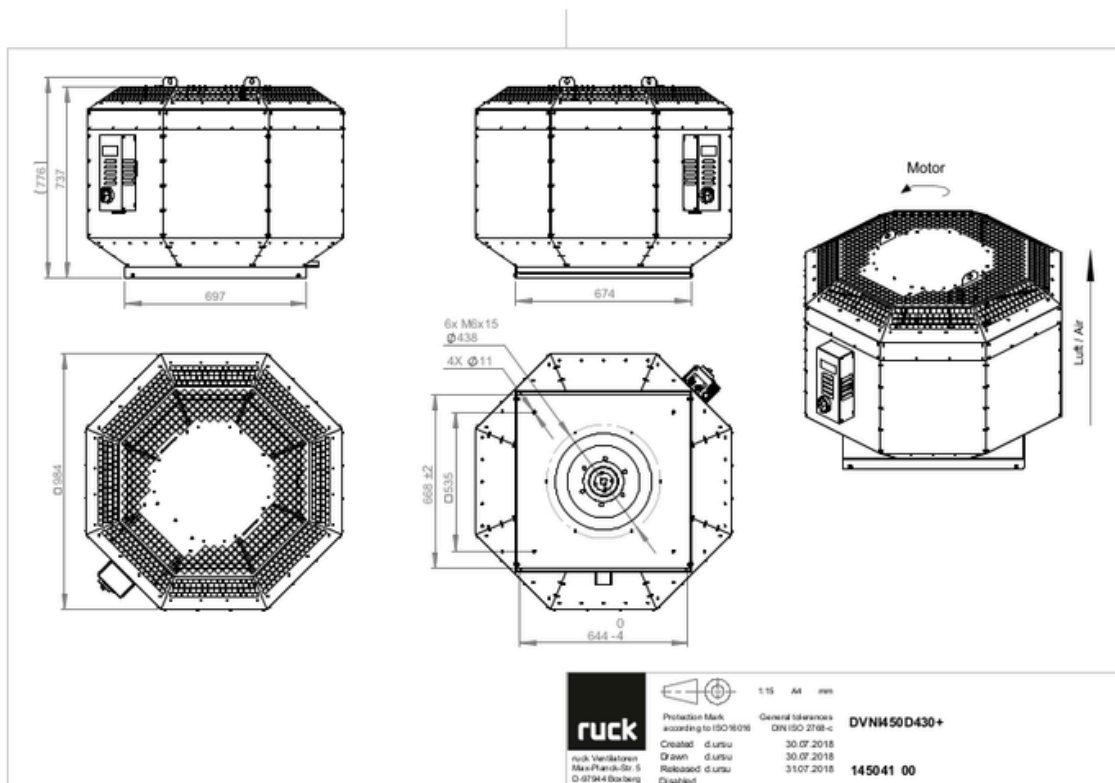
to the product detail page

DVNI 450 D4 30

145041

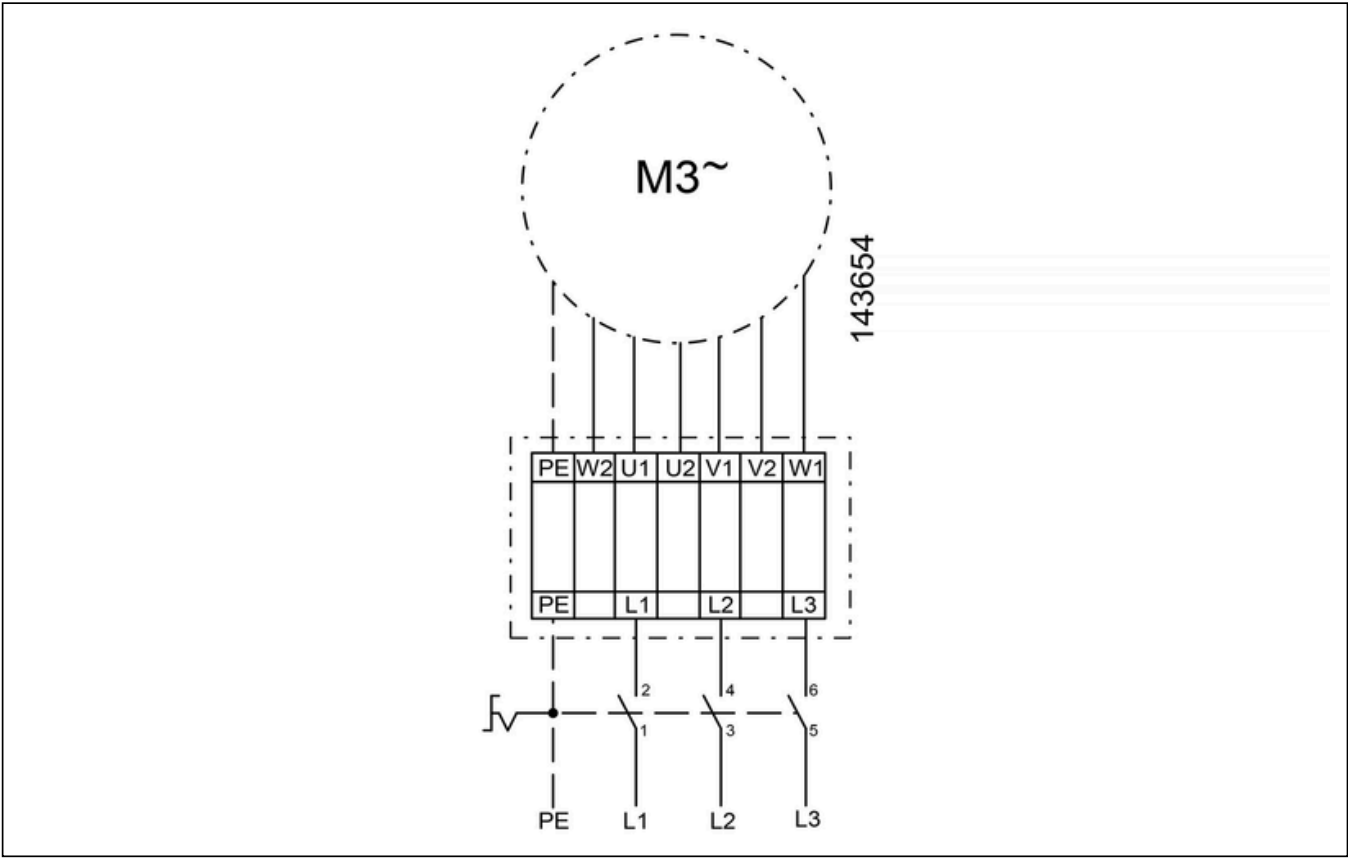
ruck

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



DVNI 450 D4 30

145041

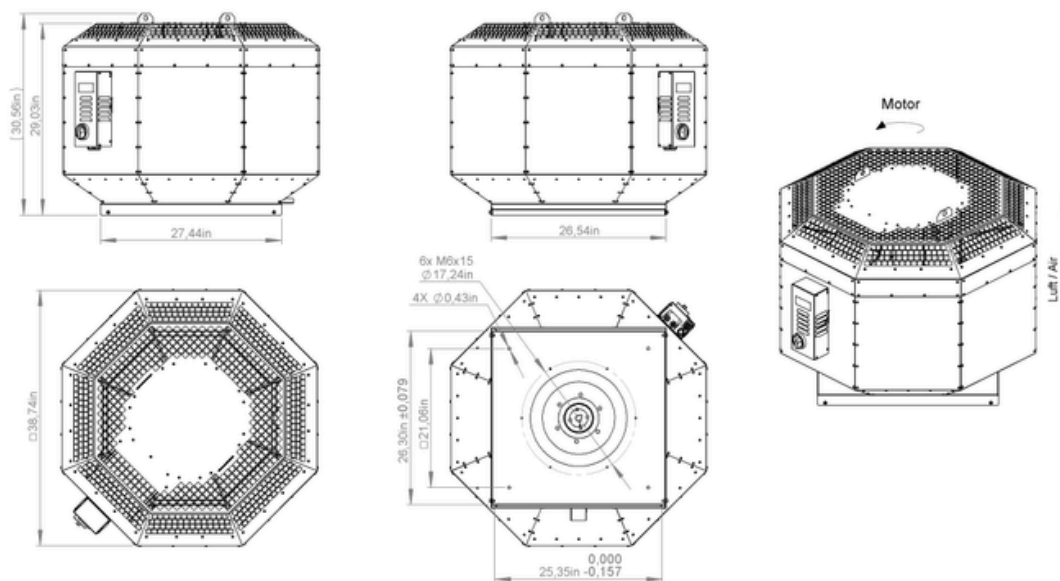


to the product detail page

DVNI 450 D4 30

145041

ruck



145041 00

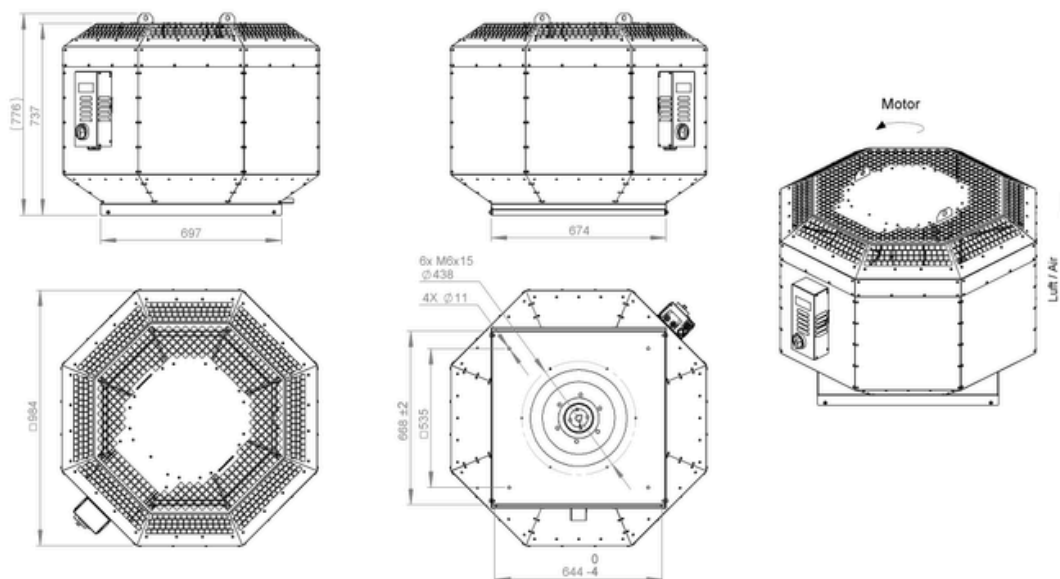


to the product detail page

DVNI 450 D4 30

145041

ruck



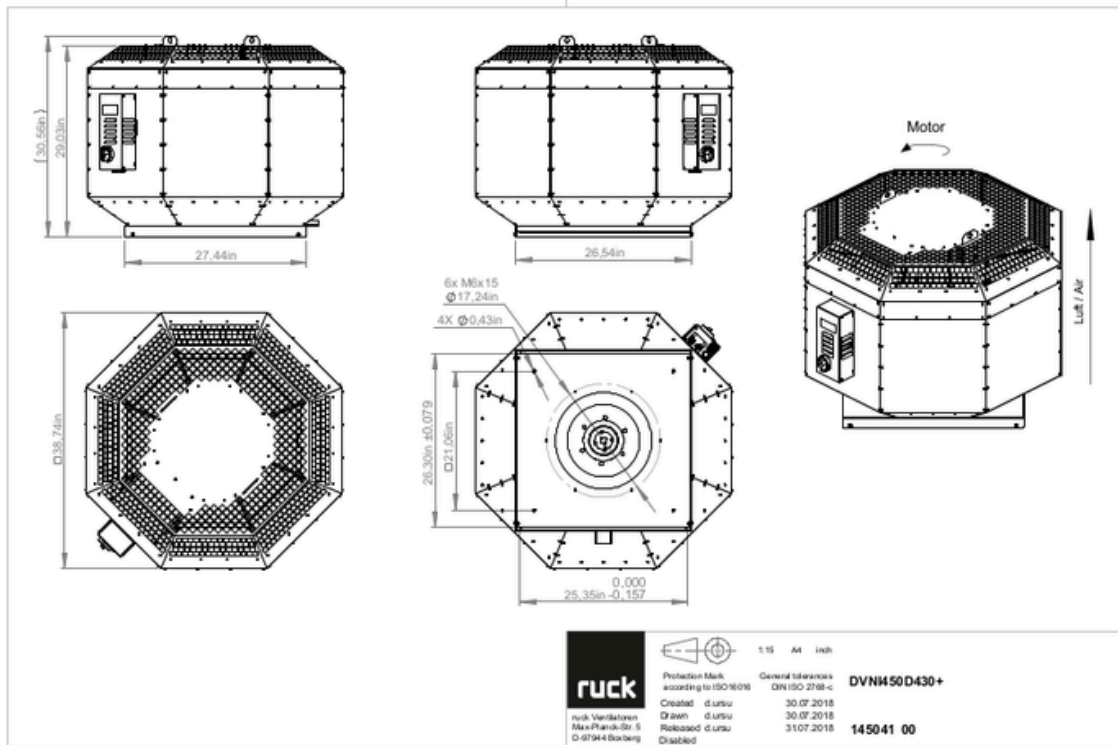
145041 00



to the product detail page

DVNI 450 D4 30

145041



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



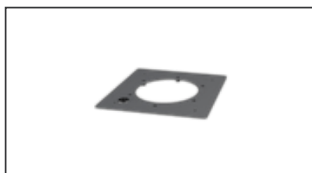
- Flat roof socket
- Made of aluminum AlMg3
- Sound and heat insulation

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



to the product detail page

ELECTRICAL ACCESSORIES

MS 02 | 140409



- Motor protection switch with Isolator switchfunktion
- I_{max} = 400 V, 50/60 Hz
- Max. 1.5 kW
- Protection class IP 55

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

FU 15 09 | 141843



- Frequency converter
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Protection class IP 20, for switch cabinet

FU 15 15 | 141865



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Protection class IP 20, for switch cabinet

FU 15 12 | 141854



- Frequency converter IP66
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Fire mode function (smoke extract fans)

FU 15 18 | 141876



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Fire mode function (smoke extract fans)

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



to the product detail page