

DVNI 355 EC 30

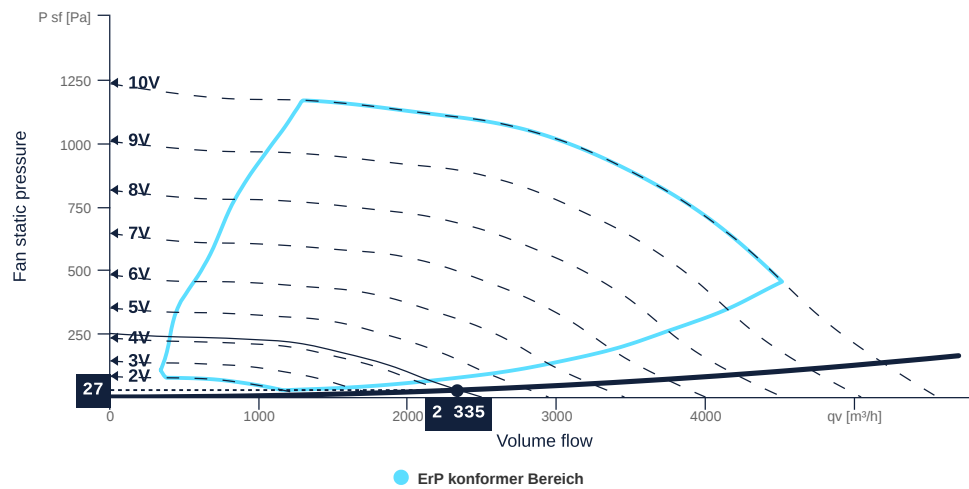
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- Backward curved centrifugal impeller
- Vertical discharge
- Housing: insulated, AlMg3, hinged, grease drain
- High efficiency EC motor, steplessly controllable
- For greasy kitchen exhaust air, up to 120 °C
- Integrated device switch



FAN CURVES

Name	Value	Unit
Volume flow	2335.49	m³/h
Pressure	27.31	Pa



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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	2335	m³/h	qV _{calc}
Pressure	27	Pa	ps _{fcalc}
Fan pressure	35	Pa	pf
Fan static pressure	27	Pa	psf
Current consumption Motor	1	A	I _e
Electrical power consumption	121	W	P _{eK}
Control voltage	4	V	U _{ctrl}
Rotation speed	1139	1/min	N
Total static efficiency	14	%	etaFaPeK
Total efficiency	19	%	etatPeK
SFP (entire device)	187	W/(m³/s)	sfp _{device}
Sound power level inlet	68	dB(A)	LwA5
Sound power level outlet	65	dB(A)	LwA6

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	69	37	52	56	60	58	66	58	59	28	dB(A)	LwA5
blowout	65	41	55	60	60	57	57	51	51	28	dB(A)	LwA6

SOUND PRESSURE LEVEL CALCULATOR

Name	Value	Unit
Enveloping surface	Halphsphere	
Distance	3	m

Sound pressure	NR	mid-frequency tape										Unit	Formula symbol
		Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	50	51	19	35	38	42	40	48	40	41	11	dB(A)	LwA5
blowout	41	48	23	37	42	42	39	40	34	33	10	dB(A)	LwA6



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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)	16 A		fuse
Housing material	Aluminium		mat _{casing}
Impeller material	Coated steel		mat _{impeller}
IP-protection class (casing)	IP44		IP _{casing}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	60.9	kg	m
Nominal air flow rate, nominal point m ³ /h	4510.8	m ³ /h	q _{v,nom}
Nominal external pressure, static	454	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 m ³ /s	1.25	m ³ /s	q _{v,nom}
Actual electrical input power, nominal point	1.3	kW	P _{e,nom}
Face velocity, nominal point	6.08	m/s	v _{nom}
Nominal external pressure, static	454	Pa	p _{s,nom}
static efficiency of the extract fan, nominal point	43.66	%	η _{es,EHA}
Enclosure sound level, nominal point	84.5	dba	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)	1418	1418	W	P _{ed, max}
Max. operating current (device)	10.12	10.12	A	I _{ed, max}
Max. speed	2550	2550	1/min	n _{max}
Max. stat. efficiency	57.8	57.8	%	η _{es}
Max. fan efficiency	59	59	%	η _e
Max. flowrate	5550	5550	m ³ /h	Q _{v, max}
Max. stat pressure	1230	1230	Pa	p _{st, 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}

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
Motor-protection		TEC		protectmotor
Protection class		IP54		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 1-		pwr _{sup} motor
Rated voltage	230		V	U _{rated, f1}
Rated current	9.5		A	I _{rated, f1}
Shaft power	1200		W	P _{out, f1}
Speed	3100		1/min	n _{f1}
UL-Certification motor		None		ULcert

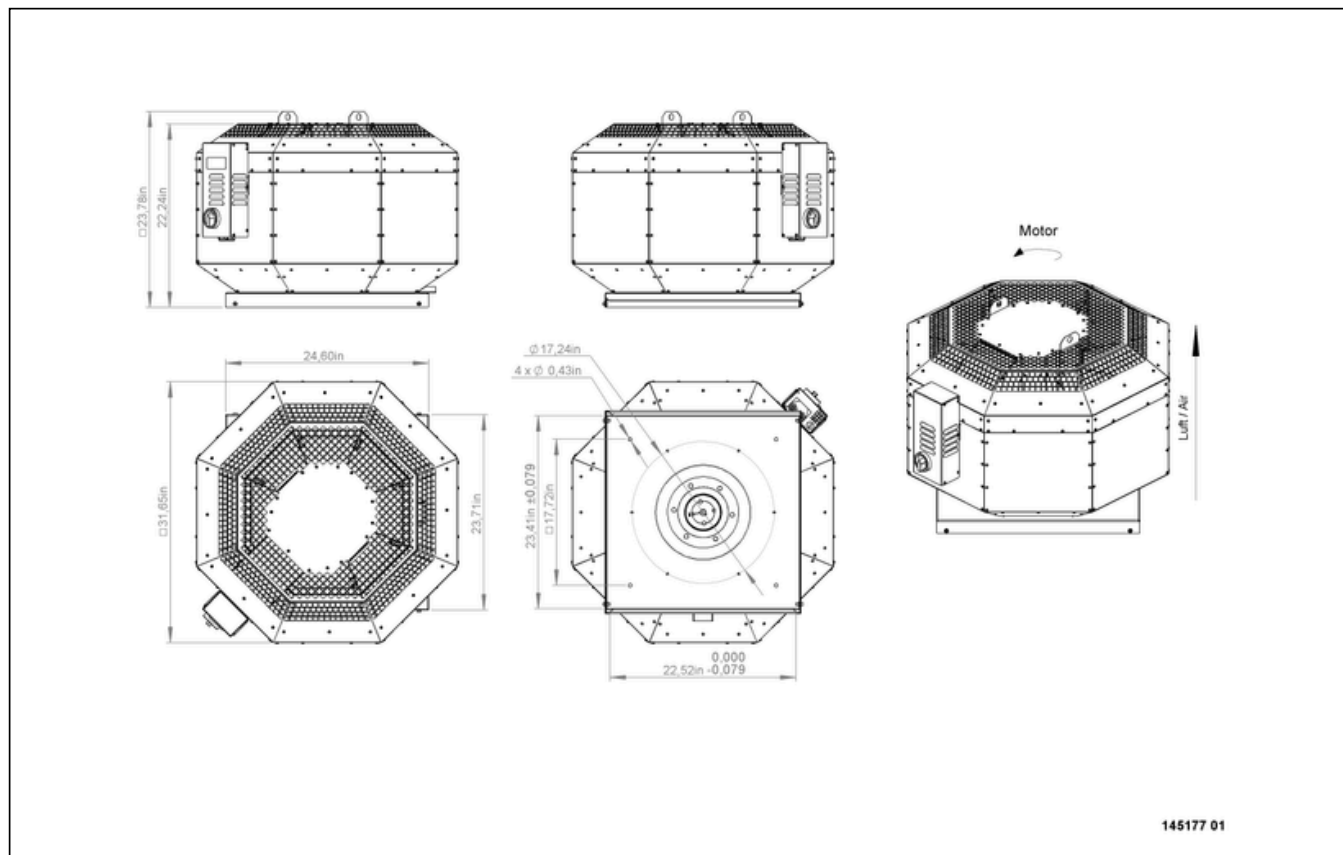


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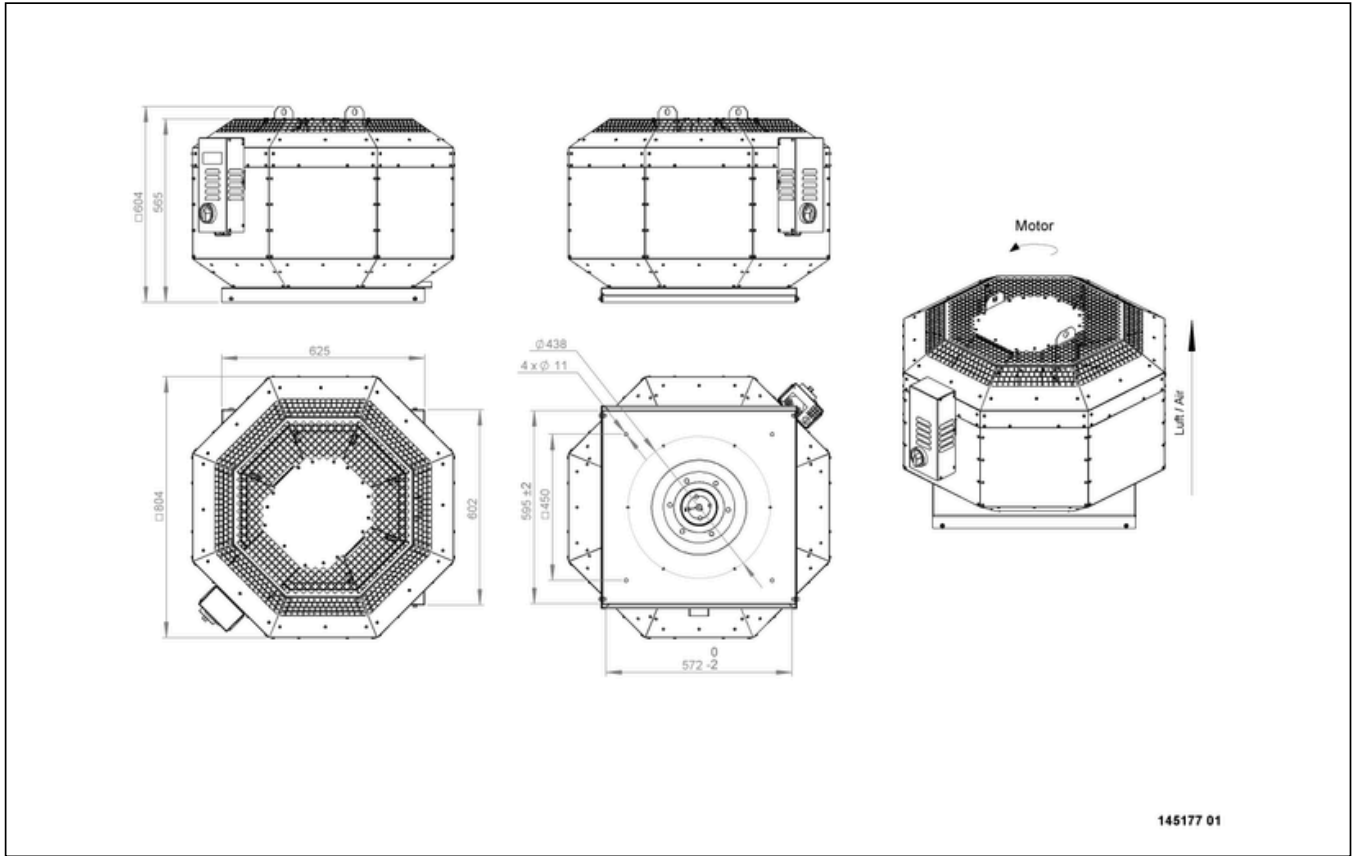
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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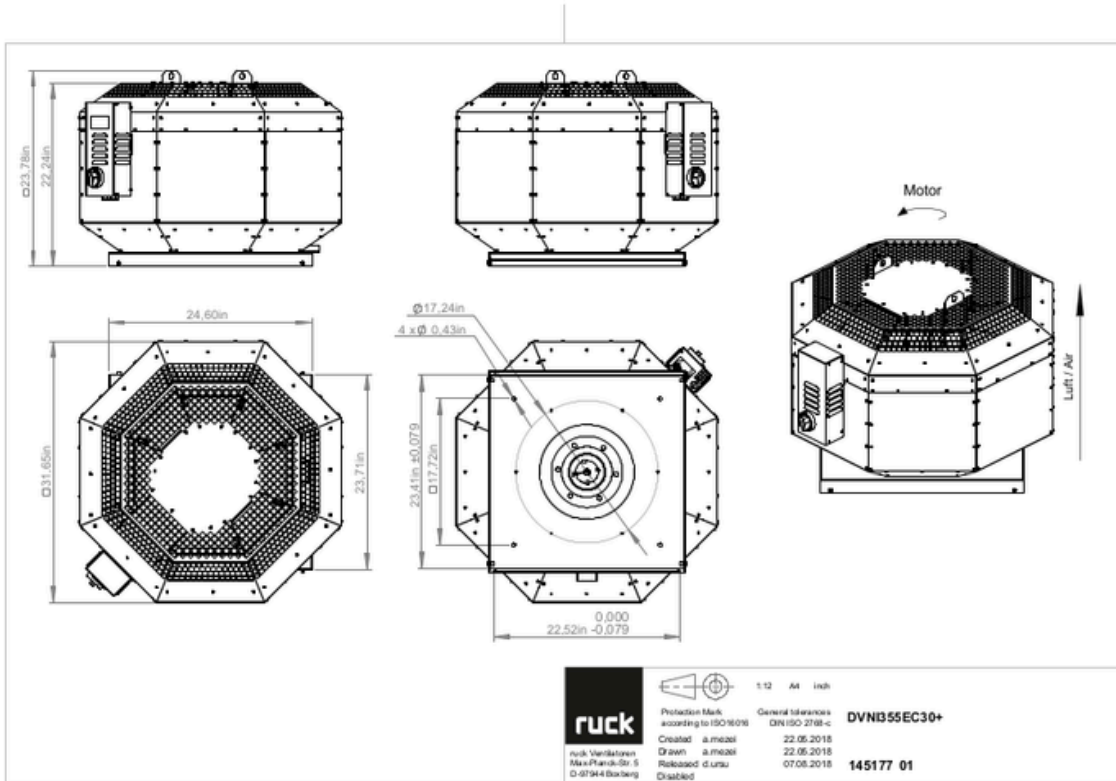
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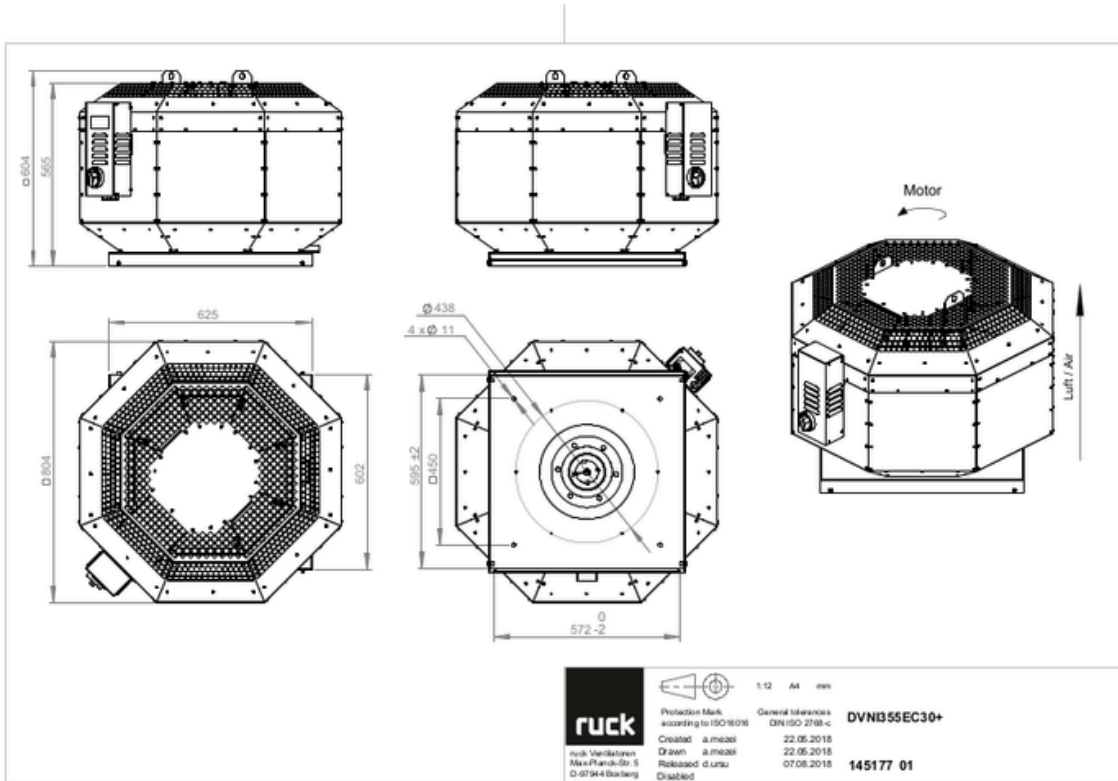
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