

EL 315 E2 10

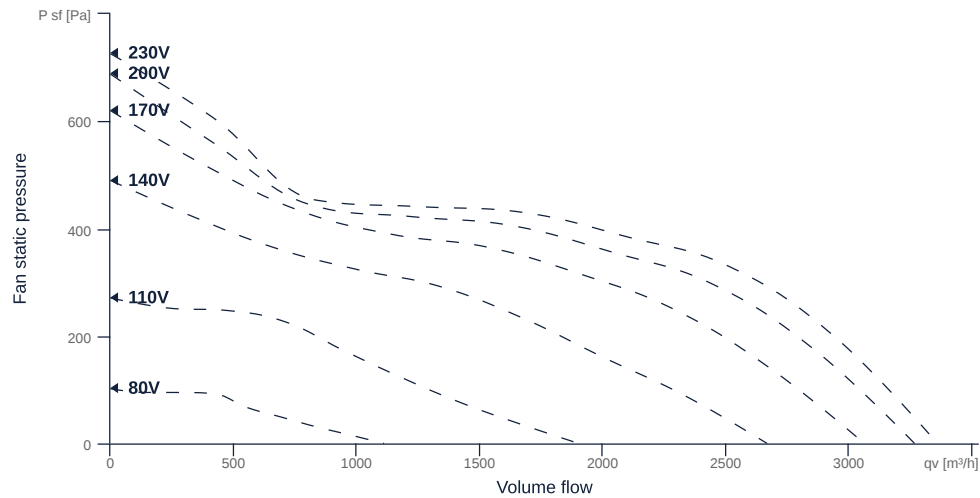
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust single phase AC motor
- Conveyed medium temperature up to 60 °C in continuous operation
- Housing made of galvanized steel sheet
- Externally ventilated motor



FAN CURVES

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



to the product detail page

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxH _{duct}
Pipe connection size (DN)	DN315		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}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	15	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	511	W	P _{ed, max}
Max. operating current (device)	3.07	A	I _{ed, max}
Max. speed	2860	1/min	n _{max}
Max. stat. efficiency	44.9	%	η _{es}
Max. fan efficiency	49.3	%	η _e
Max. flowrate	3360	m³/h	q _{v, max}
Max. stat pressure	720	Pa	p _{sf, max}
Max. medium temperature	80	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-25	°C	T _{amb, min}
Min. voltage	80	V	U _{min}
Stall current	8.5	A	I _{LRA}



MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TMI		protectmotor
Protection class		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwsupmotor
Capacity capacitor		10	µF	Ccond
Voltage capacitor		400	V	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		V	U _{rated, f1}
Rated current	1.9		A	I _{rated, f1}
Shaft power	300		W	P _{out, f1}
Speed	2820		1/min	n _{f1}
Cos Phi	0.990000	0.000000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2781	1/min	n _{opt}
Efficiency level	45.2	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.47	kW	P _{e, opt}
Overall efficiency	59.2	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	389	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	2076	m³/h	q _{v, opt}

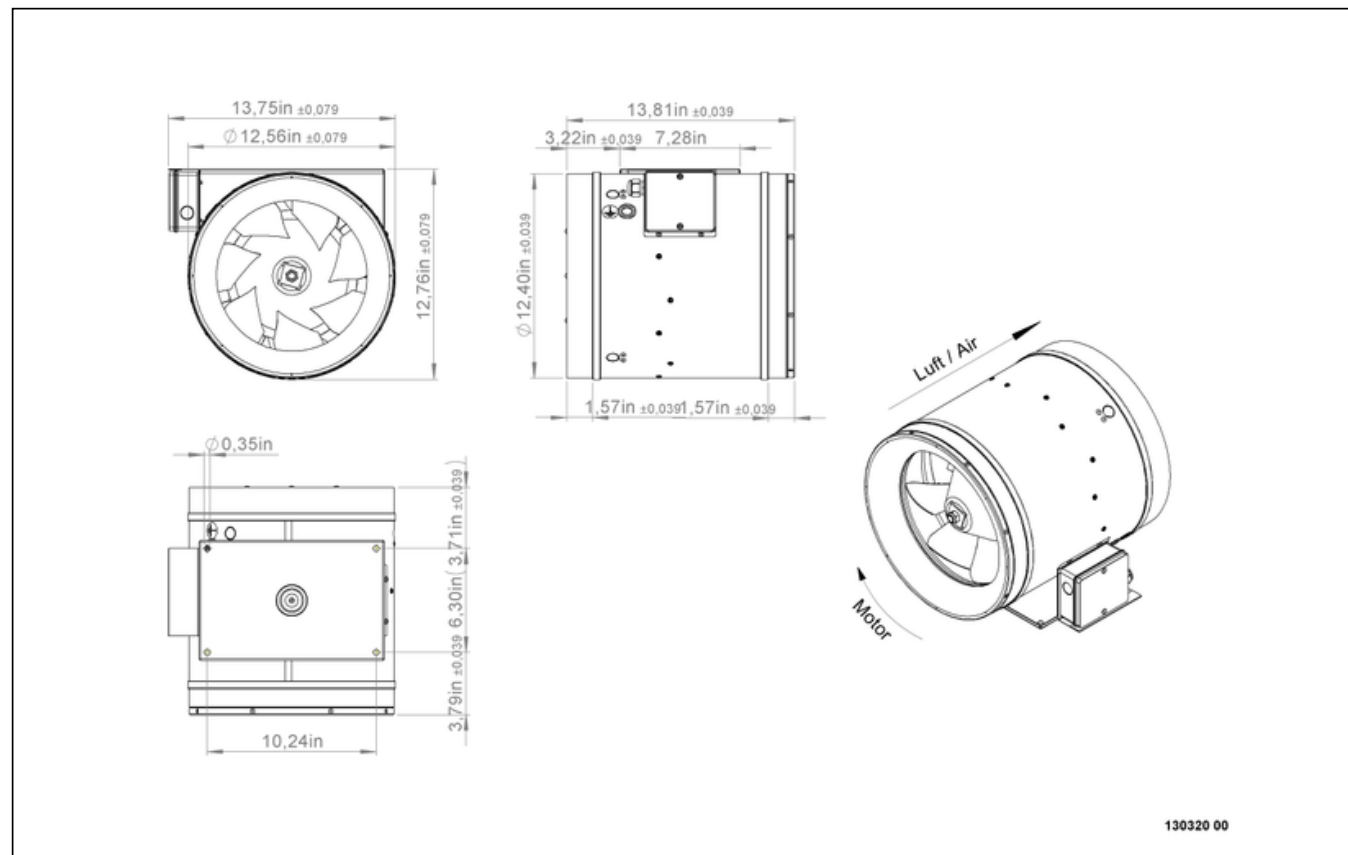
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



to the product detail page

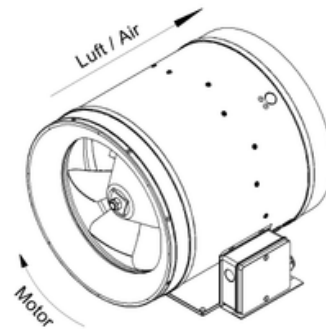
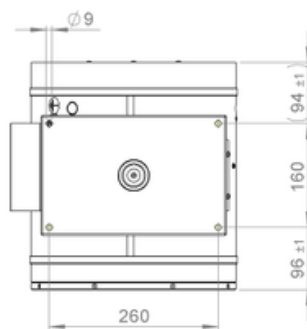
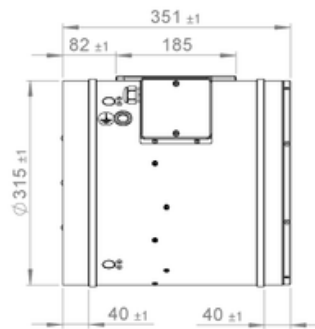
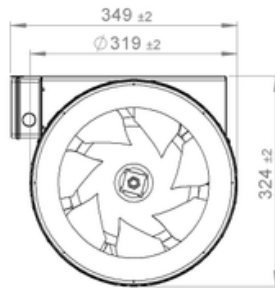
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



EL 315 E2 10

130320

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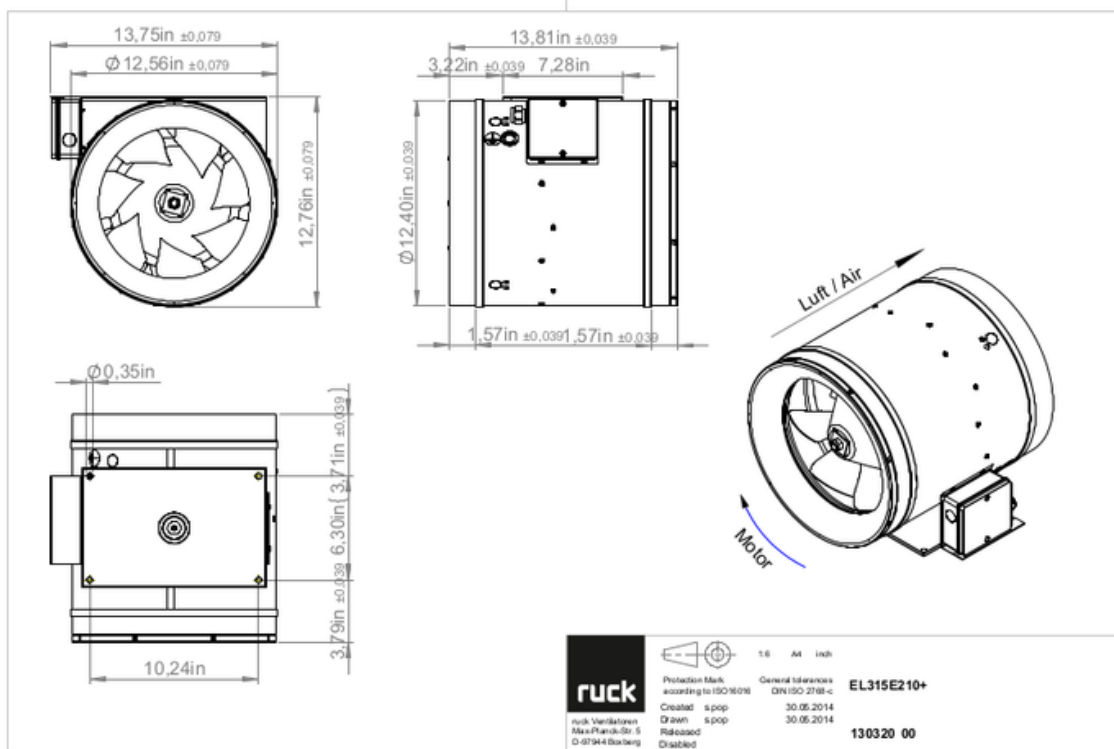
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EL 315 E2 10

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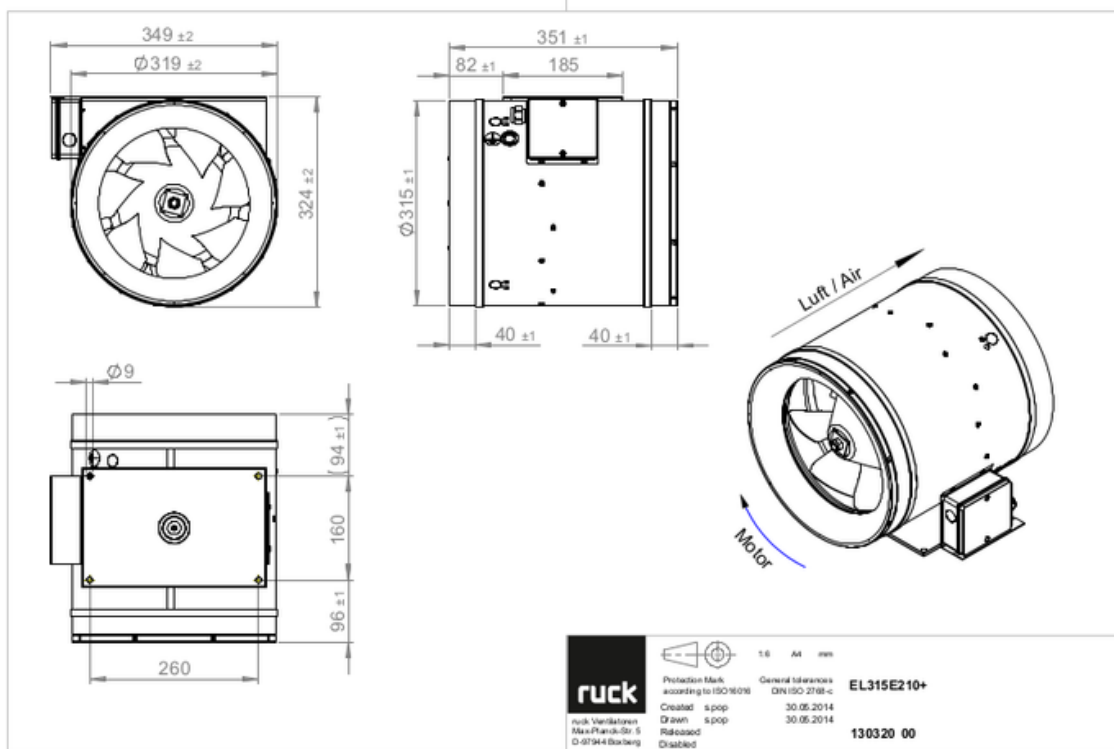
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EL 315 E2 10

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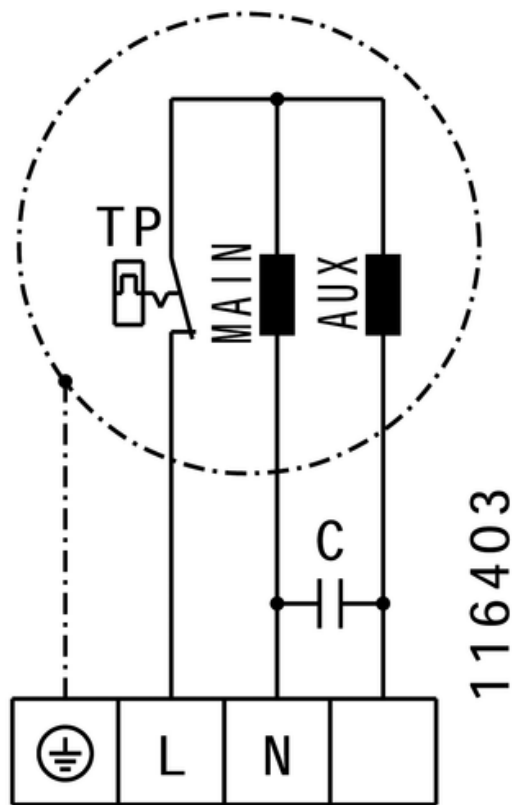
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EL 315 E2 10

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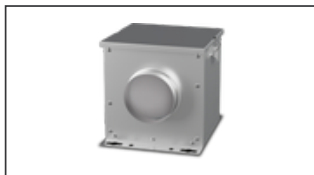
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to the product detail page

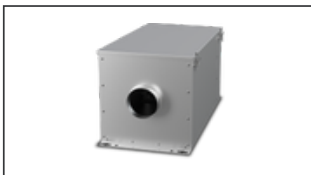
MECHANICAL ACCESSORIES

FV 315 | 112834



- Air filter box with mat filter ISO Coarse 45 % (G3)
- Toggle-type fastener

FT 315 | 112846



- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

FTW 315 | 112855



- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

RSK 315 | 102664



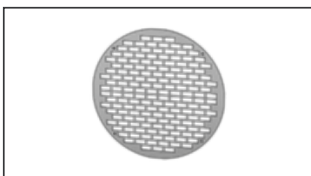
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

UKR 6030 03 | 114640



- Transition duct / tube
- Steel sheet, galvanized
- 600 x 300 mm / NW 315

SG 315 02 | 112675



- Inlet protection grille for Etaline
- Galvanized steel sheet

RSK 315D | 113489



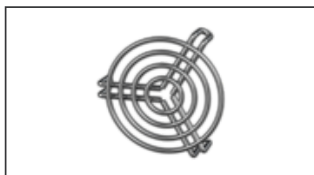
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps
- Integrated gasket

VM 315 | 102652



- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

SG 315 01 | 169592



- Protection grille for tube connection
- Galvanized wire

SDS 315 | 169609



- Rigid tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm (mineral wool)

SDF 315 | 169645



- Flexible tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm

ELECTRICAL ACCESSORIES

GS 01 | 102787



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

TEM 035 | 103502



- 5-step transformer
- 230 V, 50/60 Hz, 3,5 A
- Output voltage: 230-190-170-140-110-80-0 V
- Protection class IP 54

TES 035 02 | 146195



- 5-step transformer
- 230 V, 50/60 Hz, 3,5 A
- Without housing, control cabinet installation
- Protection class IP 20



to the product detail page