MPC 280 EC 40

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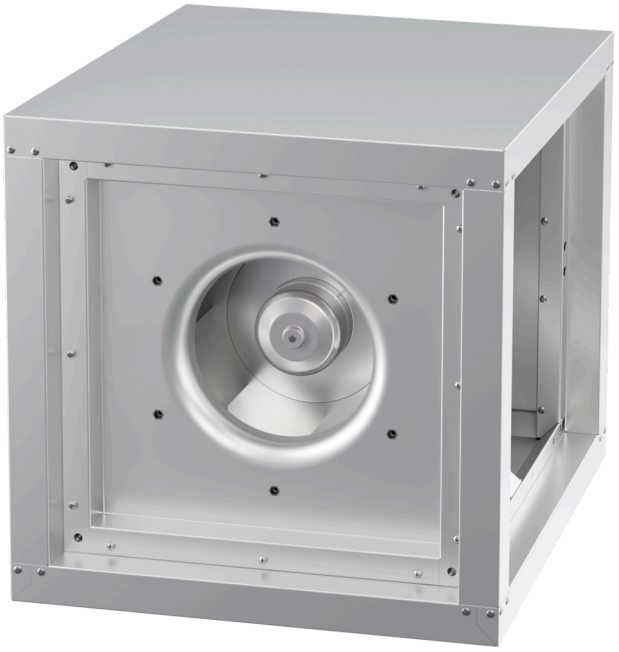
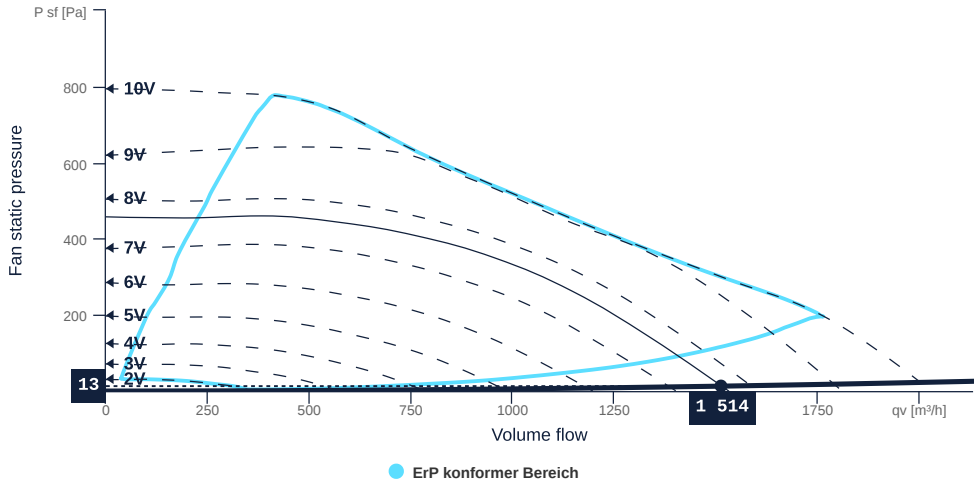
- Centrifugal fan with backward curved impeller
- Variable discharge direction right / left / linear
- Double wall housing made of galvanized steel sheet, insulated
- Highly efficient EC motor, steplessly controllable
- Internal electronic temperature monitoring
- With bottom tray



FAN CURVES

Name	Value	Unit
Volume flow	1514.02	m³/h
Pressure	12.93	Pa



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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	1514	m³/h	q_{vcalc}
Pressure	12	Pa	psf_{calc}
Fan pressure	18	Pa	pf
Fan static pressure	12	Pa	psf
Current consumption Motor	0.7	A	Ie
Electrical power consumption	101	W	Pe_K
Control voltage	7	V	U_{ctrl}
Rotation speed	2177	1/min	N
Total static efficiency	5	%	etaFaPeK
Total efficiency	7	%	etatPeK
SFP (entire device)	240	W/(m³/s)	sfp_{device}
Sound power level inlet	75	dB(A)	LwA5
Sound power level outlet	78	dB(A)	LwA6
Sound power level housing radiation	60	dB(A)	LwA2

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	∑	63	125	250	500	1000	2000	4000	8000	16000		
suction	76	35	53	64	71	70	66	66	67	42	dB(A)	LwA5
blowout	78	35	54	63	74	72	71	68	67	44	dB(A)	LwA6
Casing break out	61	36	43	47	60	49	44	41	41	18	dB(A)	LwA2

SOUND PRESSURE LEVEL CALCULATOR

Name	Value	Unit
Enveloping surface	Halphsphere	
Distance	3	m

Sound pressure	NR	mid-frequency tape										Unit	Formula symbol
		∑	63	125	250	500	1000	2000	4000	8000	16000		
suction	56	58	17	35	46	53	52	49	49	49	25	dB(A)	LwA5
blowout	56	61	18	36	46	57	55	54	50	50	26	dB(A)	LwA6
Casing break out	41	43	18	25	30	42	32	26	23	24	0	dB(A)	LwA2

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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxH$_{duct}$
Pipe connection size (DN)	DN355		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	Galvanized steel		mat$_{impeller}$
IP-protection class (entire device)	IPX4		IP$_{compl}$
IP-Protection class (terminal box)	IP44		IP$_{ebox}$
Weight	29.1	kg	m
Nominal air flow rate, nominal point m³/h	1764	CmH	qv$_{nom}$
Nominal external pressure, static	196	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 m³/s	0.49	CmS	q$_{v,nom}$
Actual electrical input power, nominal point	0.28	kw	P$_{e,nom}$
Face velocity, nominal point	3.63	mps	v$_{nom}$
Nominal external pressure, static	196	Pa	p$_{s,nom}$
static efficiency of the extract fan, nominal point	34.14	p	η$_{es,EHA}$
Highest external air leakage rate	0.15	p	
Enclosure sound level, nominal point	61.47	db	L$_{WA2}$
Rating	Product is compliant 2018		

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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	270	270	w	$P_{ed,\ max}$
Max. operating current (device)	1.91	1.91	A	$I_{ed,\ max}$
Max. speed	2900	2900	rpm	n_{max}
Max. stat. efficiency	51.2	51.2	p	η_{es}
Max. fan efficiency	51.4	51.4	p	η_{e}
Max. flowrate	2030	2030	CmH	$q_{v,\ max}$
Max. stat pressure	790	790	Pa	$p_{sf,\ max}$
Max. medium temperature	55	55	°C	$T_{m,\ max}$
Max. environment temperature	55	55	°C	$T_{amb,\ max}$
Min. environment temperature	-30	-30	°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		$ctrl_{type}$
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO_{class}
Motor-protection		TEC		$protect_{motor}$
Protection class		IP30		IP_{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 1~		$pwrsup_{motor}$
Rated voltage	230	230	v	$U_{rated,\ f1}$
Rated current	1.74	1.74	A	$I_{rated,\ f1}$
Speed	2547	2547	rpm	n_{f1}
Efficiency	52	52	p	$\eta_{m,\ f1}$
Min. temperature	-30	-30	°C	$T_{motor,\ min}$
Cos Phi	0.680000	0.680000		cos φ
UL-Certification motor		None		UL_{cert}

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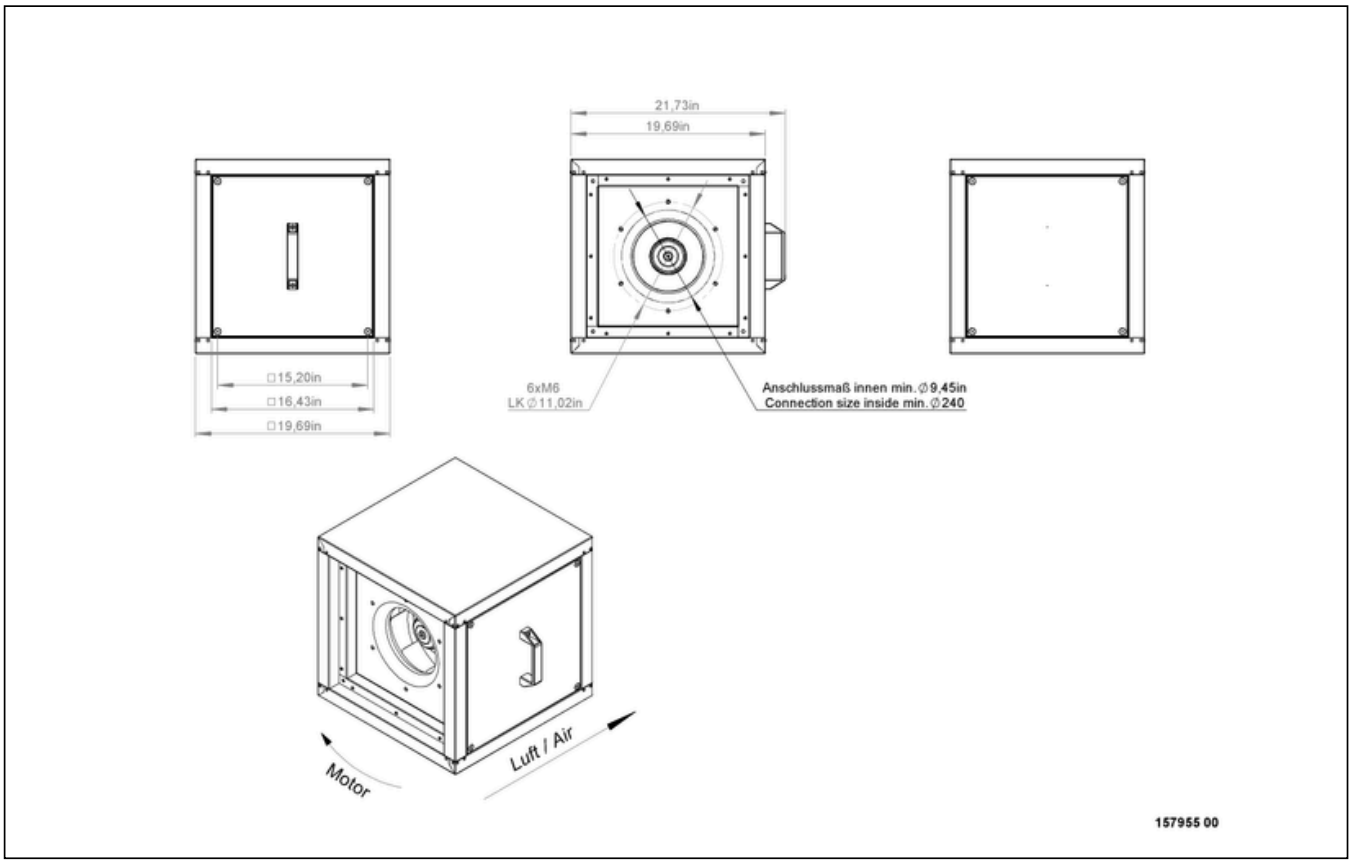
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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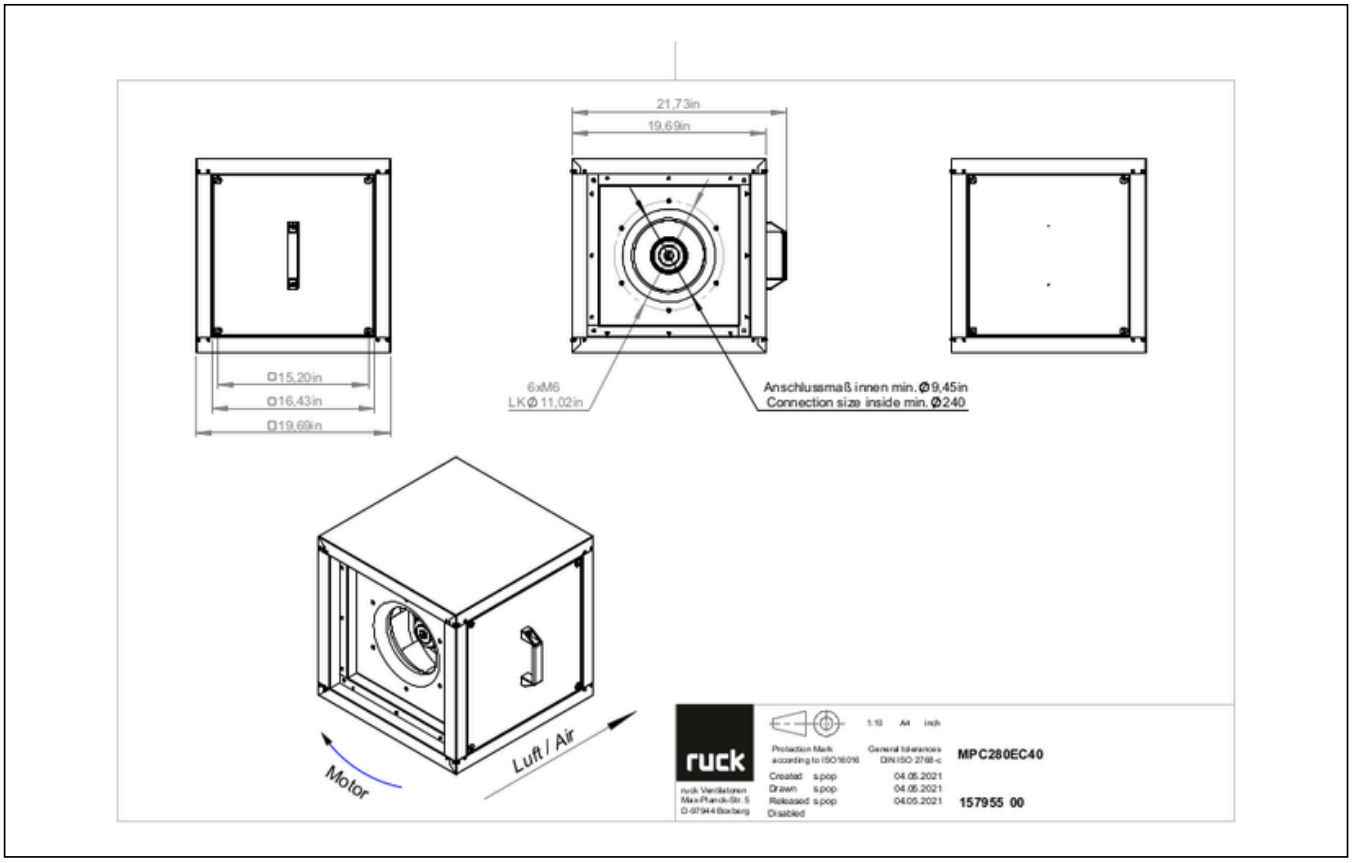

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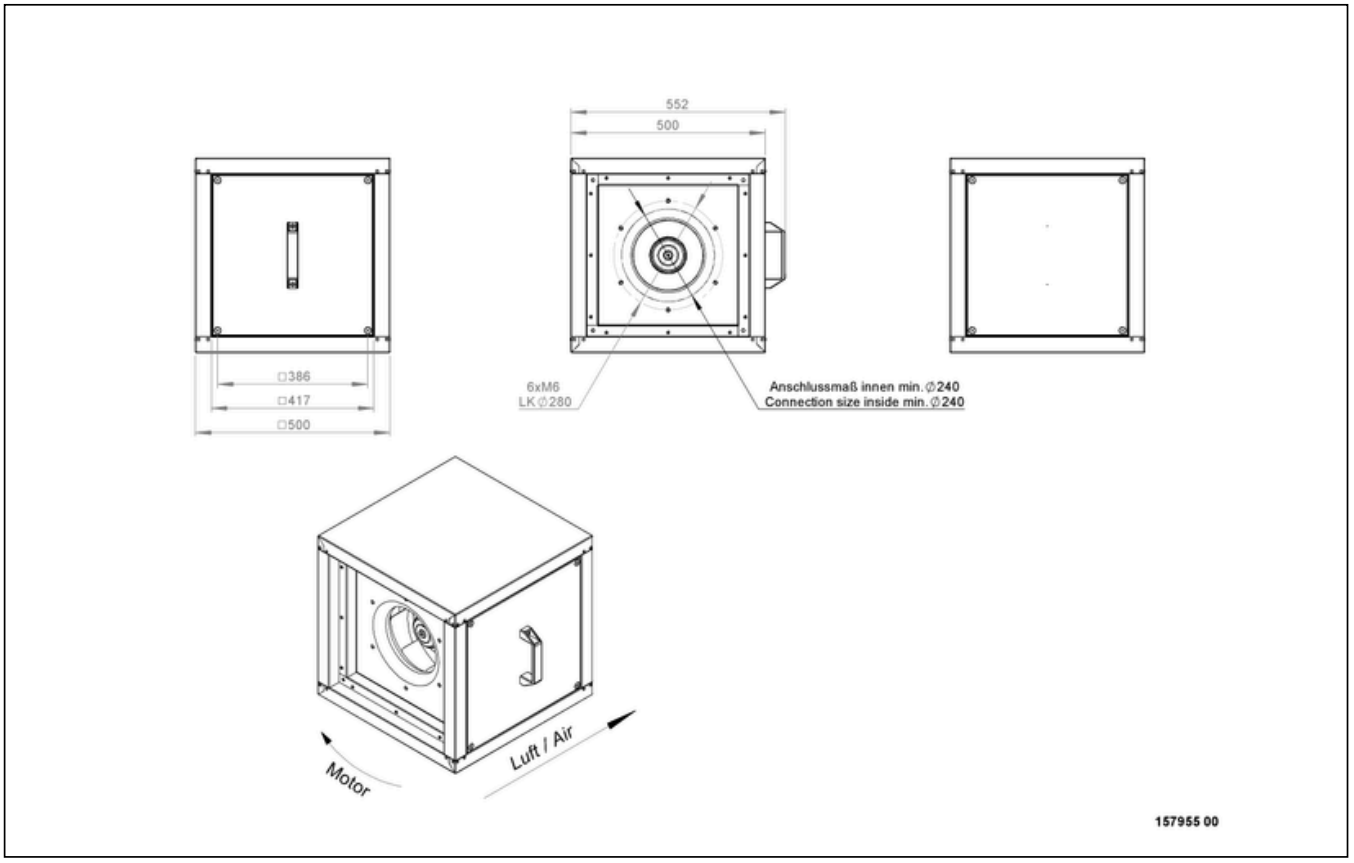

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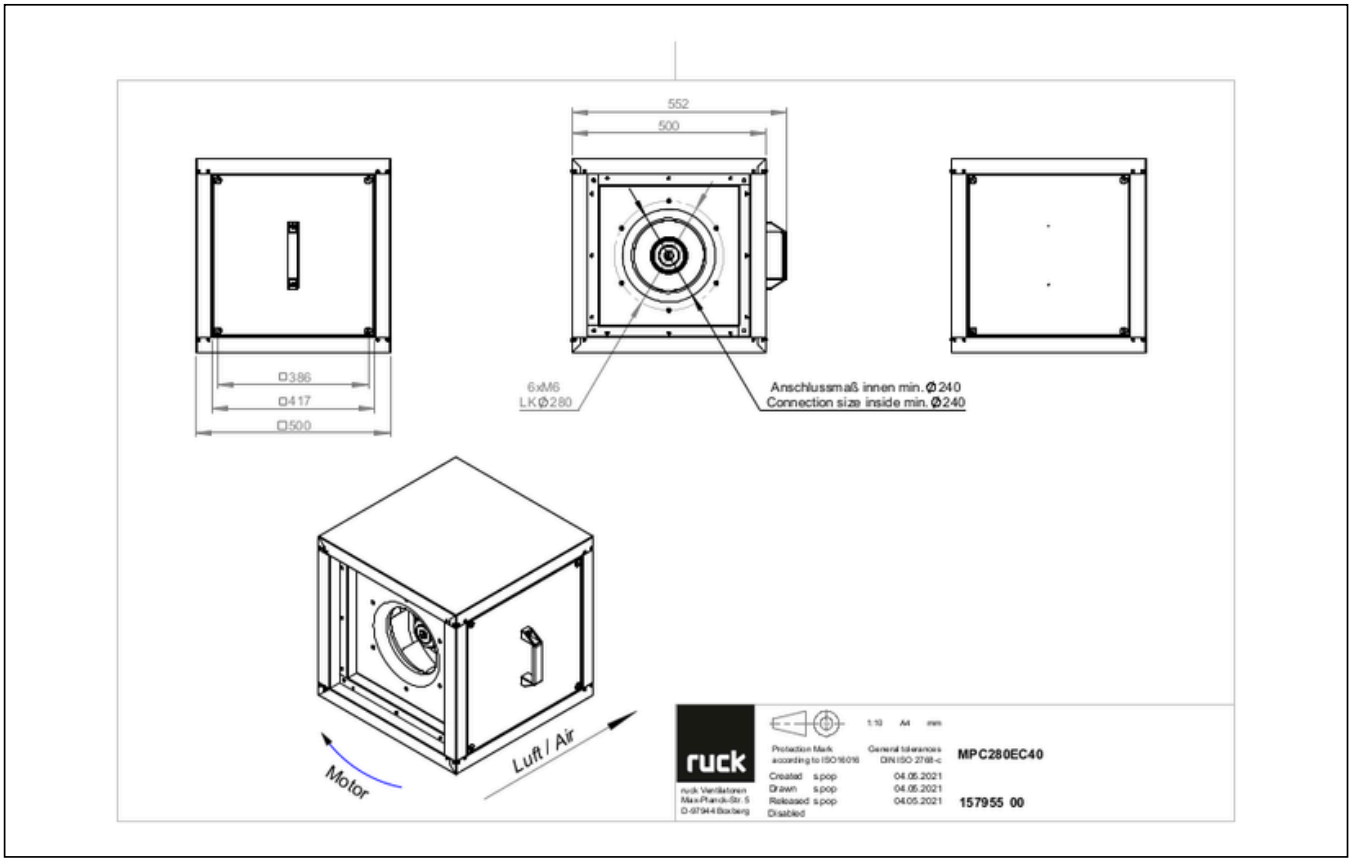

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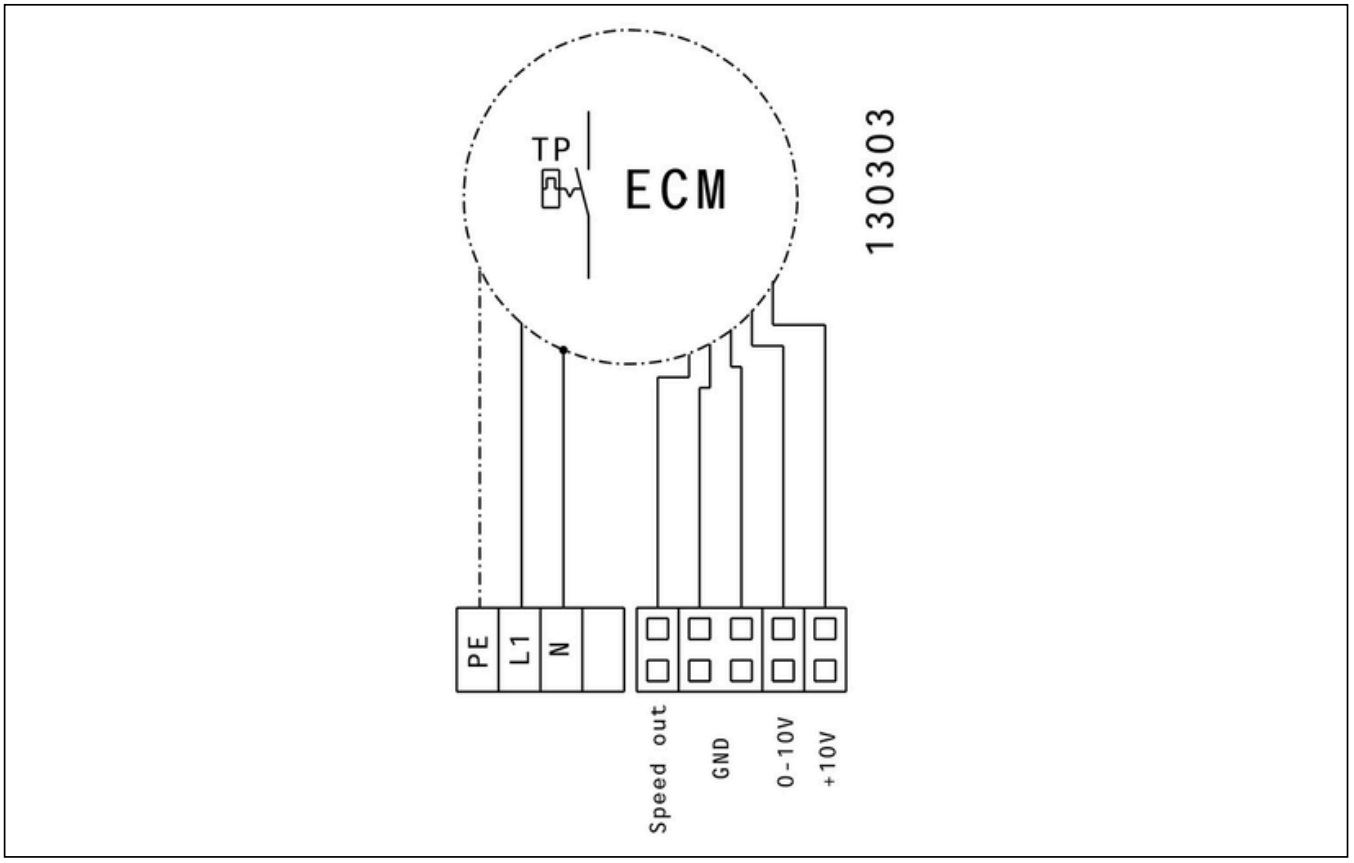

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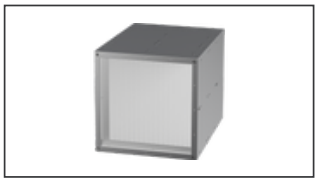
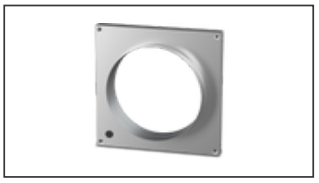
MECHANICAL ACCESSORIES

FB 500 | 160864



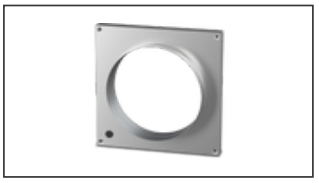
- Air filter box for panel filter
- For MPC box 500
- For 1 or 2 filter (not included)
- Housing made of galvanized sheet steel

USM 500 315 | 107181



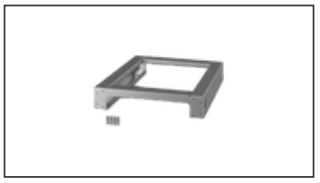
- Transition spigot
- Galvanized steel sheet
- Insulated

USM 500 355 | 107182



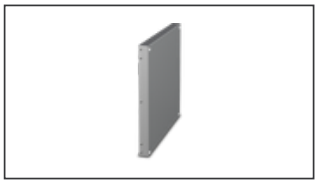
- Transition spigot
- Galvanized steel sheet
- Insulated

GR MPC 01 | 123430



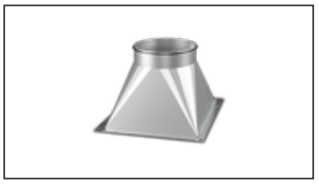
- Base frame für MPC
- Galvanized steel sheet

UCP 500 | 142567



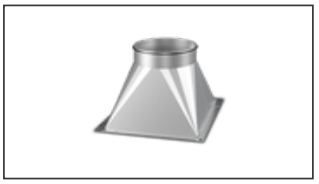
- Closed panel
- Galvanized steel sheet

UQR 500 315 01 | 136201



- Transition duct/tube
- Galvanized steel sheet
- Incl. 4 cylinder cap screws (M8 x 16 mm), 4 serrated lock washers for nominal size M8

UQR 500 250 01 | 136232



- Transition duct/tube
- Galvanized steel sheet
- Incl. 4 cylinder cap screws (M8 x 16 mm), 4 serrated lock washers for nominal size M8

VM 250 | 102651

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

VM 355 | 102653

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

AS MPC 250 | 140836

- Inlet spigot
- Galvanized steel sheet

AS MPC 315 | 140844

- Inlet spigot
- Galvanized steel sheet

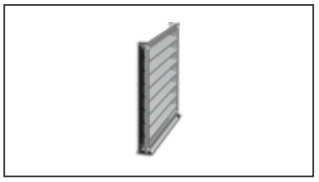
AS MPC 355 | 140956

- Inlet spigot
- Galvanized steel sheet

WSH MPC 01 | 123431

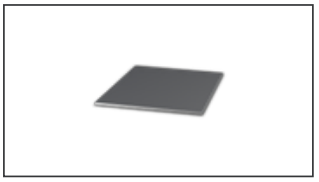
- Weather protection hood
- Galvanized steel sheet

WSG MPC 500 | 140741



- Weather protection grille
- Galvanized steel sheet

RD MPC 500 | 140073



- Rain cover for outdoor installation
- Galvanized steel sheet

VM 315 | 102652

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

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