



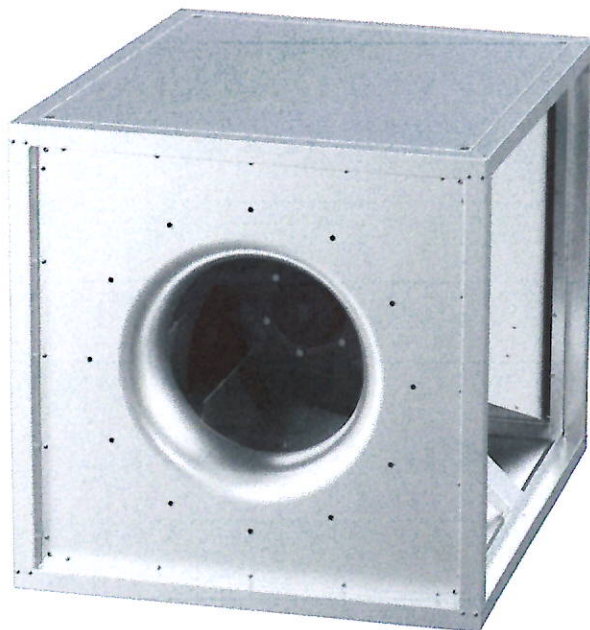
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MANSON KITCHEN EXTRACT FAN SYST ①

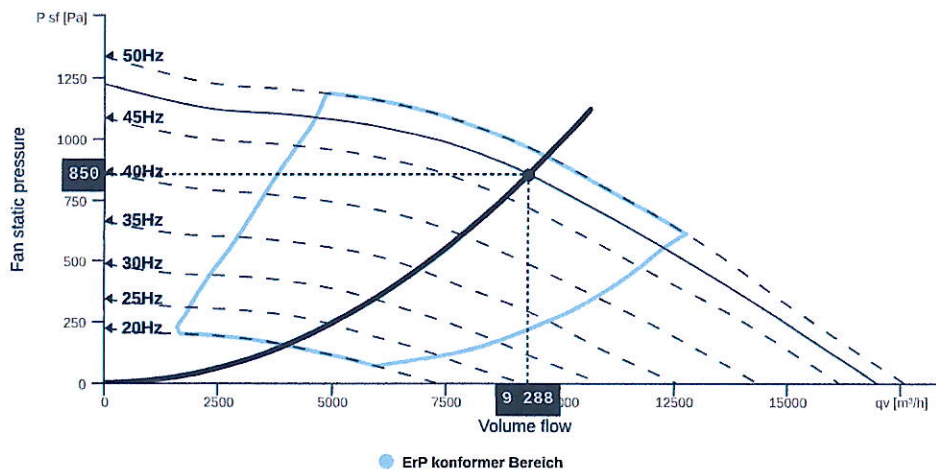
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- Backward curved centrifugal impeller
- Removable side walls, variable discharge direction
- Sheet steel housing double-walled, 30 mm mineral wool
- IE3 motor outside the airflow, frequency controllable
- Conveyed medium temperature up to 120 °C in continuous operation
- Housing bottom designed with integrated drain



FAN CURVES

Name	Value	Unit
Volume flow	9288	m³/h
Pressure	850	Pa



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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	9288	m³/h	qVcalc
Pressure	850	Pa	psfcalc
Fan pressure	862	Pa	pf
Fan static pressure	850	Pa	psf
Current consumption Motor	7.9	A	Ie
Current consumption Electric	5	A	Ied
Electrical power consumption	3804	W	Pek
Electrical power consumption	4047	W	Pedk
Frequency	47	Hz	frq
Rotation speed	1387	1/min	N
Total static efficiency	57	%	etaFaPeK
Total speed controlled static efficiency	54	%	etaFaPedK
Total efficiency	58	%	etatPeK
Total speed controlled efficiency	54	%	etatPedK
SFP (entire device)	1474	W/(m³/s)	sfpdevice
Sound power level inlet	87	dB(A)	LwA5
Sound power level outlet	91	dB(A)	LwA6
Sound power level housing radiation	79	dB(A)	LwA2

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	88	57	78	81	81	83	80	74	66	53	dB(A)	LwA5
blowout	91	60	79	81	86	86	82	77	68	52	dB(A)	LwA6
Casing break out	79	55	76	70	72	71	68	60	53	51	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
		Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	65	70	39	61	63	63	65	62	57	49	36	dB(A)	LwA5
blowout	69	74	42	62	64	69	68	65	60	51	35	dB(A)	LwA6
Casing break out	60	62	37	59	53	54	53	51	43	35	33	dB(A)	LwA2

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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxHduct
Pipe connection size (DN)	DN630		DN
Rated voltage (entire device)	400	v	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Galvanized steel		matcasing
Impeller material	Coated steel		matimpeller
Weight	140	kg	m
Nominal air flow rate, nominal point m³/h	9025.2	CmH	Q _{v,nom}
Nominal external pressure, static	942.3	Pa	p _{s,nom}
Fan type	Radial		Fantype
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	2.51	CmS	Q _{v,nom}
Actual electrical input power, nominal point	4.07	kw	P _{e,nom}
Face velocity, nominal point	4.3	mps	V _{nom}
Nominal external pressure, static	942.3	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	66.7	p	η _{es,SUP}
Highest external air leakage rate	0.02	p	
Enclosure sound level, nominal point	84	db	LWA2
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	4325	w	P _{ed, max}
Max. operating current (device)	8.82	A	I _{ed, max}
Max. speed	1480	rpm	n _{max}
Max. stat. efficiency	55.8	p	η _{es}
Max. fan efficiency	56.6	p	η _e
Max. flowrate	17540	CmH	Q _{v, max}
Max. stat pressure	1330	Pa	p _{st, max}
Max. medium temperature	120	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-20	°C	T _{amb, min}

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MOTOR DATA

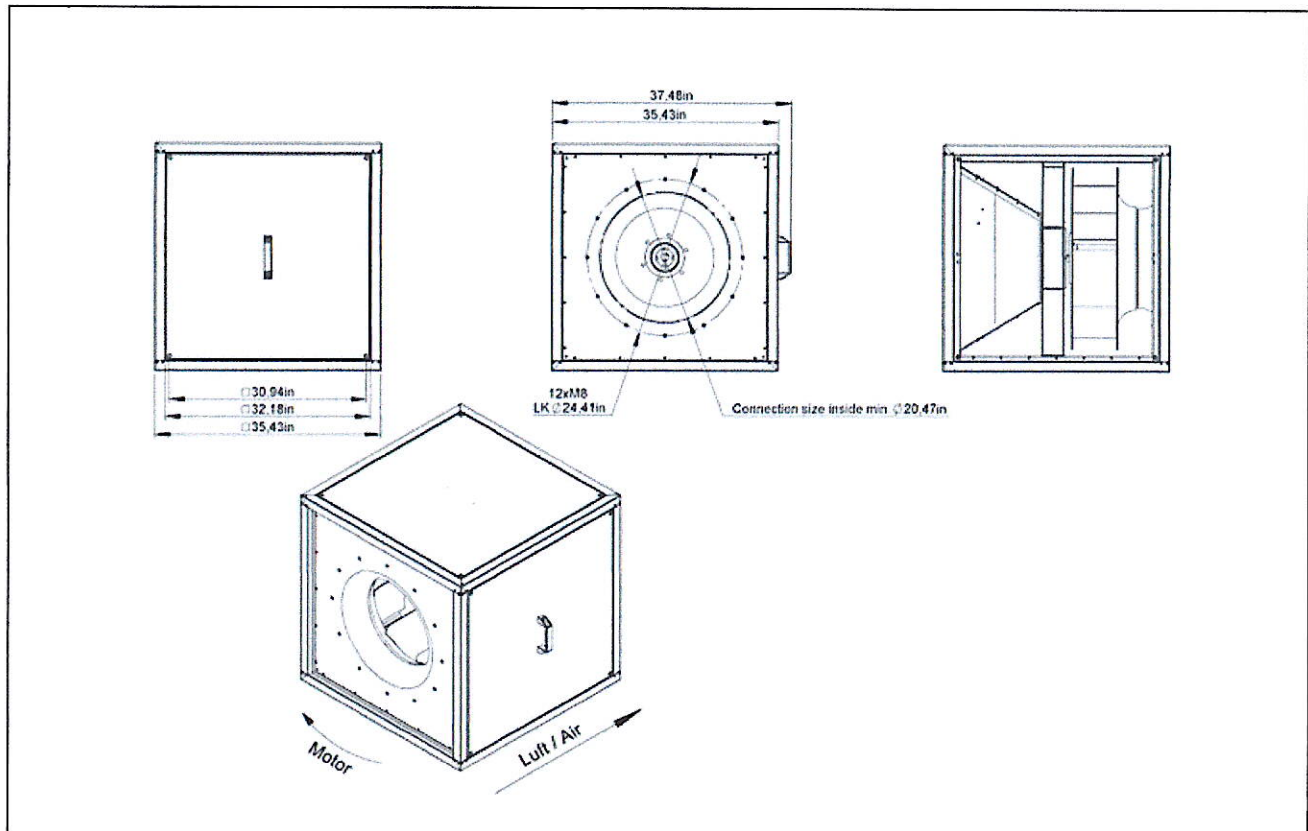
Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 3-		phase
Control type		frequency-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Protection class		IP55		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3-		pwrSUPmotor
Number of poles (1)		4.000000		num polesw1
Connection	Δ	Δ		wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	400	460	v	Urated, f1
Rated voltage (wiring 2)	690		v	Urated, f2
Rated current	8.34	7.48	A	Irated, f1
Rated current (wiring 2)	4.83		A	Irated, f2
Nominal power	4000	4000	w	Pa
Nominal power (wiring 2)	4000		w	Pout, f2
Speed	1450	1755	rpm	n1
Speed (wiring 2)	1450		rpm	n2
Starting current	58.4	59.8	A	Istart, f1
Starting current (wiring 2)	33.8		A	Istart, f2
Efficiency	88.8	89.5	p	ηm, f1
Efficiency (wiring 2)	88.8		p	ηm, f2
Efficiency class	IE3	IE3		IEmotor
Min. temperature	-20	-20	°C	Tmotor, min
Cos Phi	0.780000	0.750000		cos φ
UL-Certification motor		UL recognized		ULcert

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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

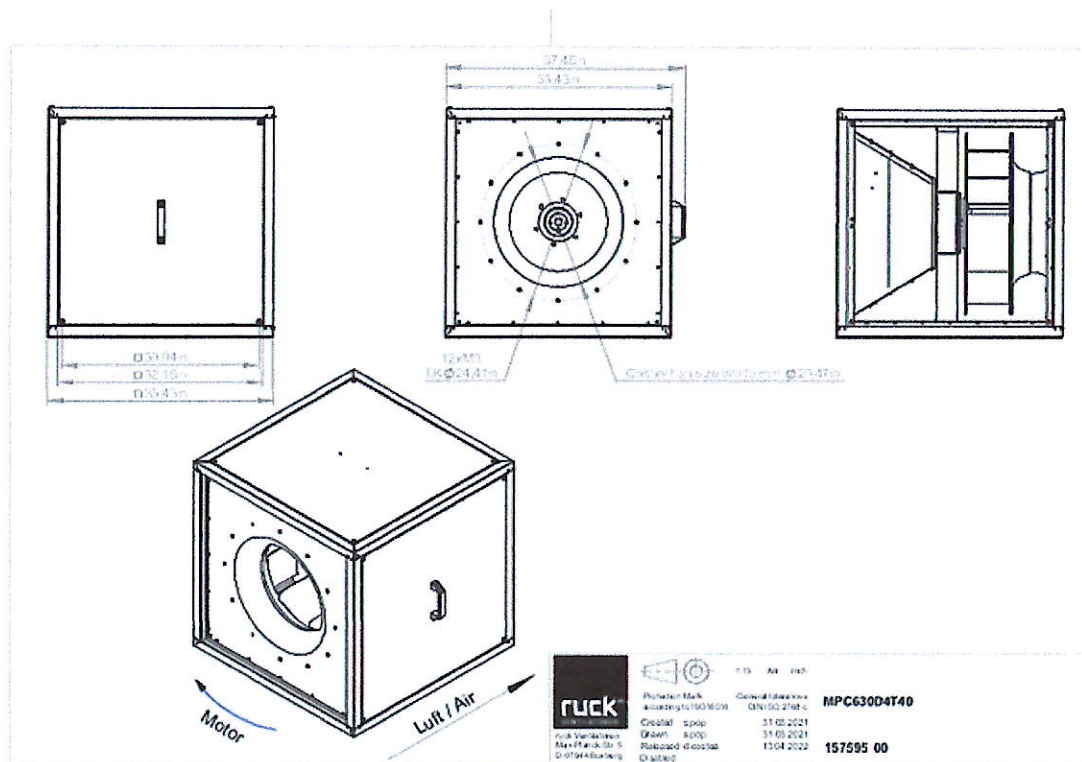


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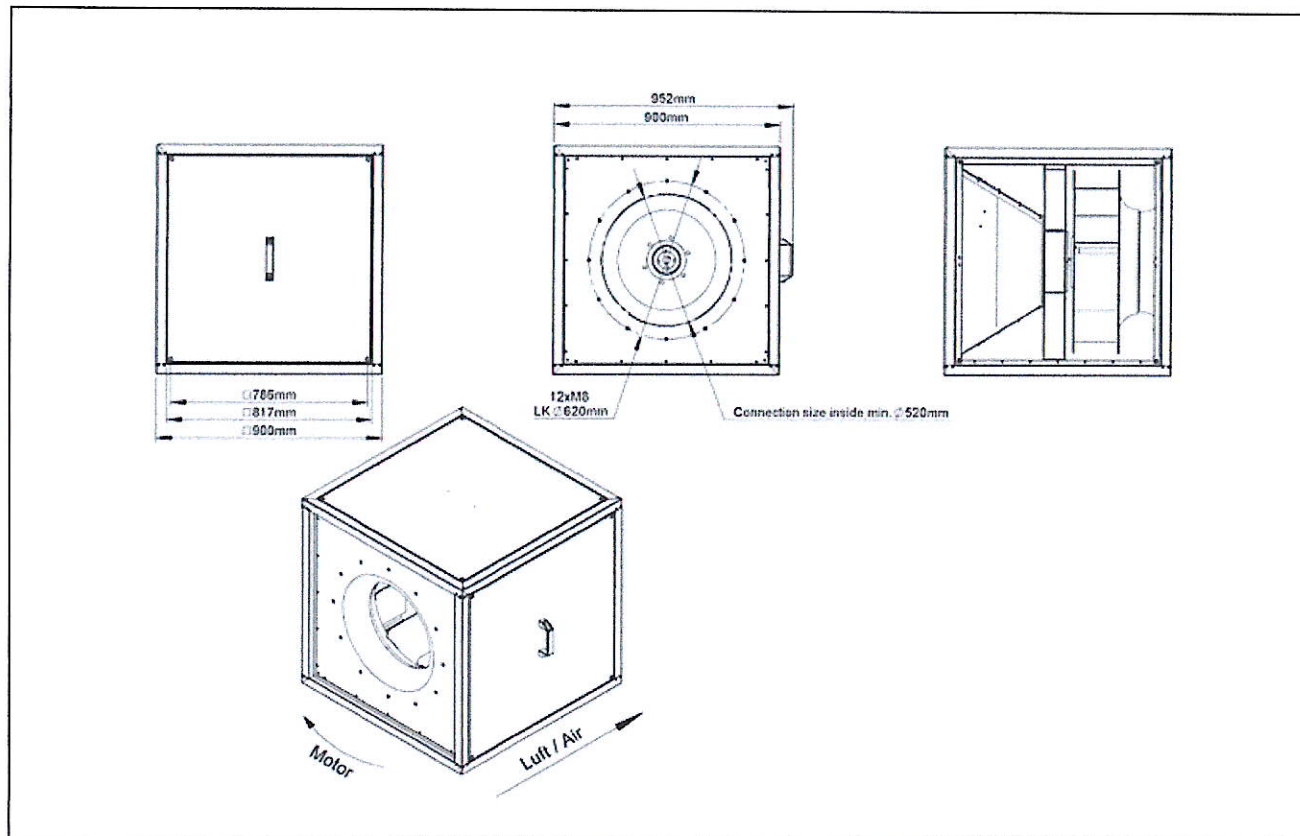


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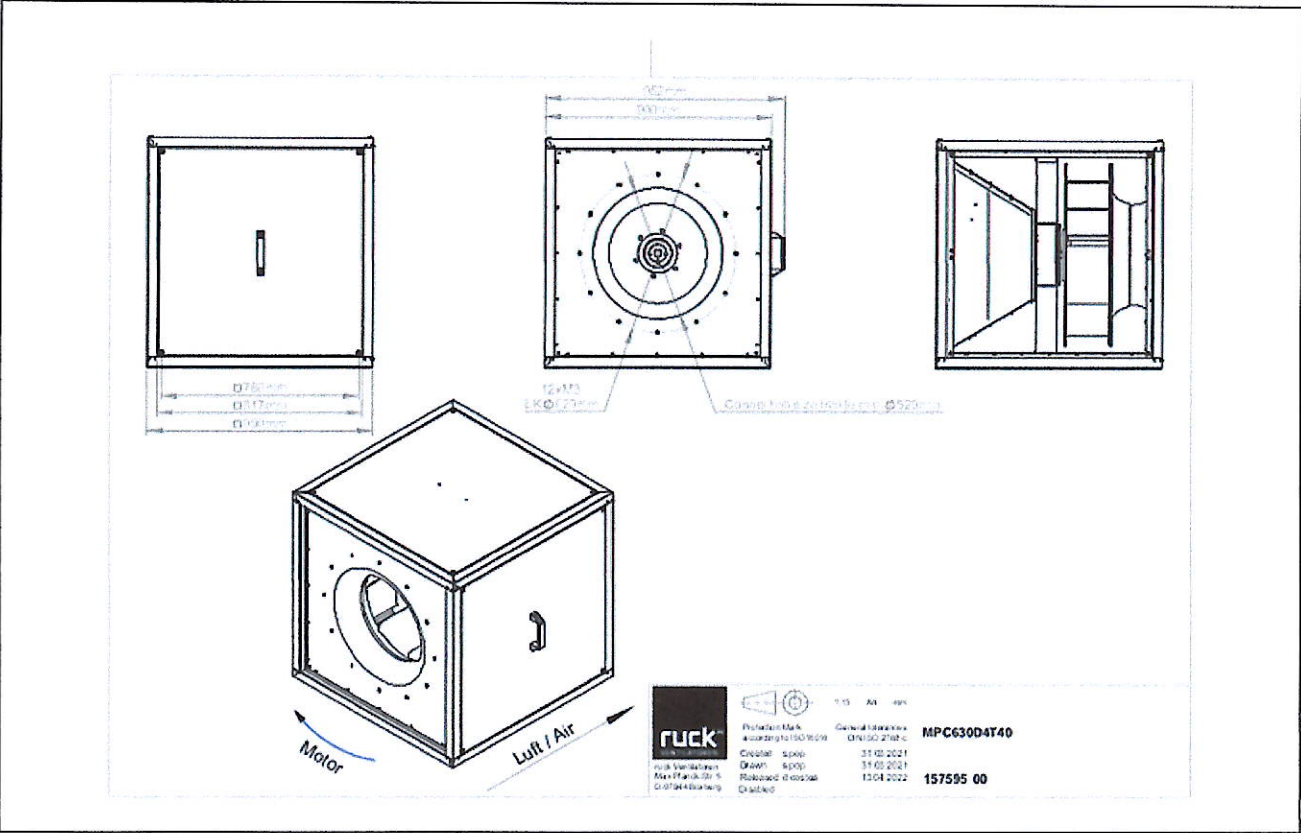
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