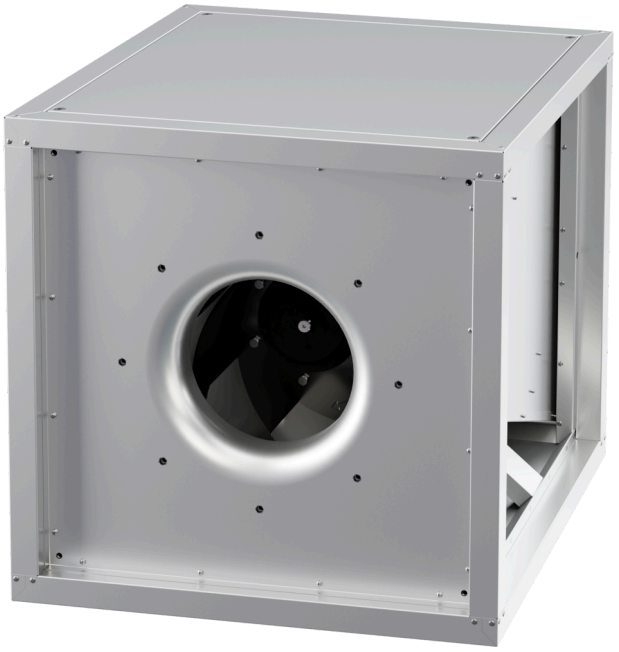
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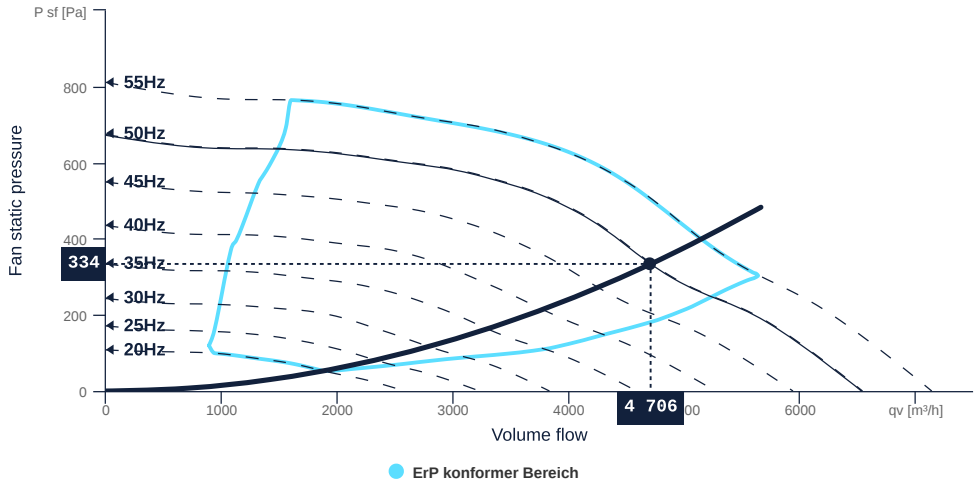
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- Backward curved centrifugal impeller
- Removable side walls, variable discharge direction
- Sheet steel housing double-walled, 30 mm mineral wool
- IE3 motor outside the airflow, frequency controllable
- Conveyed medium temperature up to 120 °C in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



FAN CURVES

Name	Value	Unit
Volume flow	4706	m³/h
Pressure	333.91	Pa



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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	4706	m³/h	q_{vcalc}
Pressure	333	Pa	psf_{calc}
Fan pressure	342	Pa	pf
Fan static pressure	333	Pa	psf
Current consumption Motor	2	A	Ie
Current consumption Electric	1	A	Ied
Electrical power consumption	906	W	Pe_K
Electrical power consumption	948	W	Ped_K
Frequency	49	Hz	frq
Rotation speed	1468	1/min	N
Total static efficiency	48	%	etaFaPeK
Total speed controlled static efficiency	45	%	etaFaPedK
Total efficiency	49	%	etatPeK
Total speed controlled efficiency	47	%	etatPedK
SFP (entire device)	693	W/(m³/s)	sfp_{device}
Sound power level inlet	81	dB(A)	LwA5
Sound power level outlet	83	dB(A)	LwA6
Sound power level housing radiation	74	dB(A)	LwA2

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	81	50	72	74	75	75	72	67	67	50	dB(A)	LwA5
blowout	84	52	71	74	78	79	74	68	65	45	dB(A)	LwA6
Casing break out	75	54	70	67	67	69	60	55	49	45	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	57	64	32	55	56	58	57	54	50	50	32	dB(A)	LwA5
blowout	61	66	34	54	57	61	62	56	50	48	28	dB(A)	LwA6
Casing break out	53	57	36	53	49	50	52	43	37	32	28	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)	DN500		DN
Rated voltage (entire device)	400	V	U_{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat_{casing}
Impeller material	Coated steel		$mat_{impeller}$
Weight	75	kg	m
Nominal air flow rate, nominal point m³/h	4114.8	m³/h	q_{vnom}
Nominal external pressure, static	607	Pa	$p_{s,nom}$
Fan type	Radial		Fan_{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1226	W	$P_{ed,\ max}$
Max. operating current (device)	2.5	A	$I_{ed,\ max}$
Max. speed	1630	1/min	n_{max}
Max. stat. efficiency	53.1	%	η_{es}
Max. fan efficiency	53.7	%	η_{e}
Max. flowrate	7125	m³/h	$q_{v,\ max}$
Max. stat pressure	810	Pa	$p_{sf,\ max}$
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		$ctrl_{type}$
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO_{class}
Protection class		IP55		IP_{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 3~		$pwrsup_{motor}$
Number of poles (1)		4.000000		$num\ poles_{w1}$
Connection	Δ	Δ		$wiring_{w1}$
Connection (wiring 2)	Y	Y		$wiring_{w2}$
Rated voltage	230	265	V	$U_{rated,\ f1}$
Rated voltage (wiring 2)	400	460	V	$U_{rated,\ f2}$
Rated current	4.4	3.8	A	$I_{rated,\ f1}$
Rated current (wiring 2)	2.53	2.2	A	$I_{rated,\ f2}$
Shaft power	1100	1100	W	$P_{out,\ f1}$
Shaft power (wiring 2)	1100	1100	W	$P_{out,\ f2}$
Speed	1445	1750	1/min	n_{f1}
Speed (wiring 2)	1445	1750	1/min	n_{f2}
Efficiency	84.1	86.5	%	$\eta_{m,\ f1}$
Efficiency (wiring 2)	84.1	86.5	%	$\eta_{m,\ f2}$
Efficiency class	IE3	IE3		IE_{motor}
Min. temperature	-20	-20	°C	$T_{motor,\ min}$
Cos Phi	0.780000	0.770000		cos φ
UL-Certification motor		None		UL_{cert}

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