

AL 800 D4 F4 02

162562

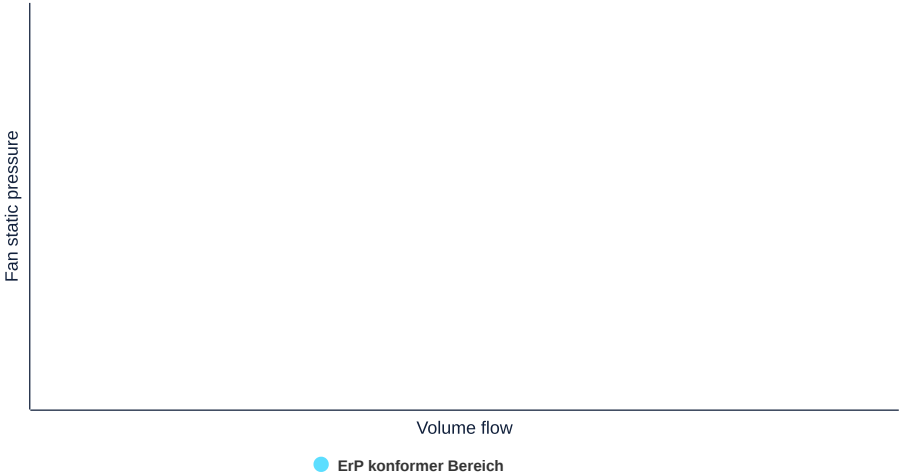


- Innovative, high-efficiency axial fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing weight optimized, powder coated
- Efficient IE3 motor, frequency controllable
- Smoke extract fan F400, 60 °C continuous operation, dual-use
- Exceeds current ErP regulation



FAN CURVES

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



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ruck

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		$W \times H_{duct}$
Pipe connection size (DN)	DN800		DN
Rated voltage (entire device)	400	V	U_{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	16 A		fuse
Housing material	Steel		matcasing
Impeller material	Steel		matimpeller
IP-protection class (entire device)	IPX4		IPcompl
IP-Protection class (terminal box)	IP55		IPebox
Weight	156.1	kg	m
Fan type	Axial		Fan _{type}
Category / Installation situation	B		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	7656	W	$P_{ed, max}$
Max. operating current (device)	14.5	A	$I_{ed, max}$
Max. speed	1480	1/min	n_{max}
Max. stat. efficiency	57.2	%	η_{es}
Max. fan efficiency	72.9	%	η_e
Max. flowrate	39890	m ³ /h	$Q_{v, max}$
Max. stat pressure	650	Pa	$p_{sf, max}$
Max. medium temperature	60	°C	$T_{m, max}$
Max. environment temperature	60	°C	$T_{amb, max}$
Min. environment temperature	-20	°C	$T_{amb, min}$



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 H		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	U _{rated, f1}
Rated voltage (wiring 2)	690		V	U _{rated, f2}
Rated current	14.2	12.4	A	I _{rated, f1}
Rated current (wiring 2)	8.22		A	I _{rated, f2}
Shaft power	7500	7500	W	P _{out, f1}
Shaft power (wiring 2)	7500		W	P _{out, f2}
Speed	1460	1770	1/min	n _{f1}
Speed (wiring 2)	1460		1/min	n _{f2}
Starting current	118	118	A	I _{start, f1}
Starting current (wiring 2)	68.3		A	I _{start, f2}
Efficiency	90.6	91.7	%	η _{m, f1}
Efficiency (wiring 2)	90.6		%	η _{m, f2}
Efficiency class	IE3	IE3		IE _{motor}
Min. temperature	-20	-20	°C	T _{motor, min}
Cos Phi	0.840000	0.830000		cos φ
UL-Certification motor		None		ULcert



ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1471	1/min	n_{opt}
Efficiency level	73.1	%	N
Efficiency category	total		$\eta_{efficiency}$
Input power of the motor at the energy efficiency optimum	7.68	kW	$P_{e, opt}$
Overall efficiency	73.8	%	η_{ges}
Measurement category	B		meas cat
Fan pressure at energy efficiency optimum	645	Pa	$p_{f, opt}$
Flowrate at energy efficiency optimum	31338	m³/h	$Q_{v, opt}$

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Maximum resistance temperature	400	°C	T_{fire}
Maximum resistance time	120.000000		t_{fire}
Fire resistance class	F 400 (120)		Fclass
Snow load class	-		SLclass

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS





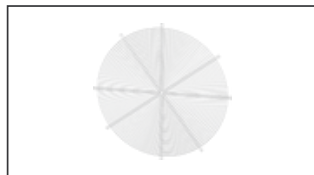






MECHANICAL ACCESSORIES

SGW 800 | 154057



- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

RAF 800 | 157395



- Round flange
- Sheet steel, powder coated

RVS 800-01 | 157478



- Tube connection spigot
- Sheet steel, powder coated
- Suitable for outdoor installation
- Flange mounting

ESD 800 | 157527



- Inlet cone
- Steel sheet, powder coated
- Flange mounting

RAS 800 F4 | 157690



- Round spigot, flexible
- Galvanized steel sheet, silicone band
- 400 °C/120 min. conf. DIN EN 12101-3
- F400, 75 °C continuous operation
- Flange mounting

RVK 800 F4 | 157738



- Automatic tube shutter
- Sheet steel, powder coated
- For vertical installation
- Flange mounting

FAL 800 | 157897



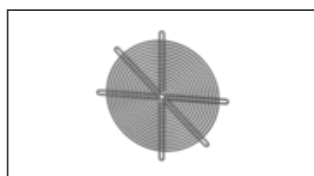
- Mounting foot
- Sheet steel, powder coated
- Flange mounting

RVK H 800 F4 | 159425



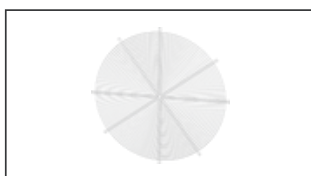
- Automatic tube shutter
- Sheet steel, powder coated
- For horizontal installation
- Flange mounting

SGE 800 | 159516



- Protection grille, narrow meshed
- Steel sheet, galvanized
- Flange mounting

SGW 900 | 159541



- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

FSD10 | 162484



- Set of 4 vibration dampers
- All metal design, galvanized



ELECTRICAL ACCESSORIES

CON P1000 | 115259



- Constant pressure control
- Actual value display possible via optional control unit
- Output 0-10 V DC + FC enable + setpoint reached
- Pressure setting by means of decade switch

MTP 20 | 128146



- Potentiometer 10 k Ω
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

MTP 30 | 143289



- Stepped potentiometer 10 k Ω
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage +10 Vdc

SEN AIR | 148641



- Airflow and temperature transducer
- Measuring range temperature 0...+50 °C
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to 20 m/s

FU 75 07 | 161389



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Fire mode function (smoke extract fans)



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