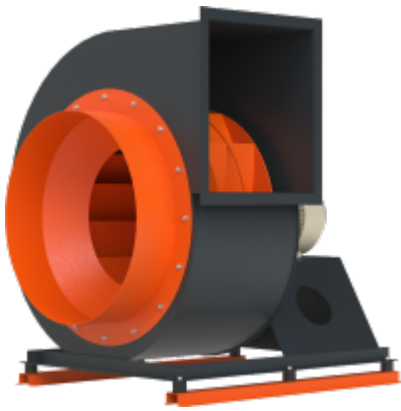
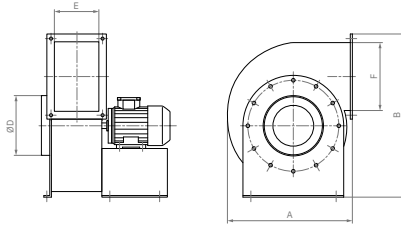




UVS-GS500B

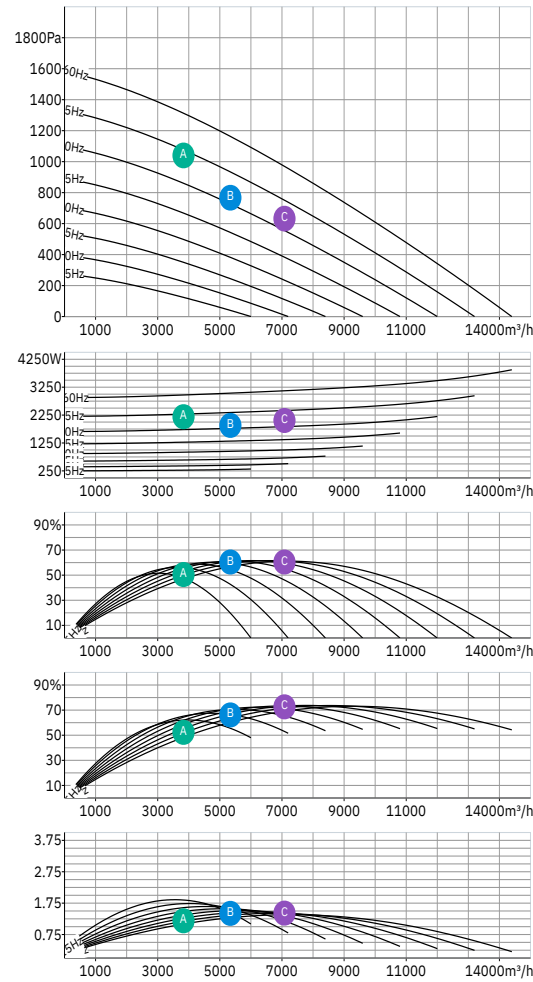
Low-pressure centrifugal fan

A series of industrial centrifugal fans intended for conveying clean or lightly dust-laden air and for ventilation and extraction systems.



A	785 mm	B	850 mm	D	450 mm
E	330 mm	F	410 mm		

Performance characteristics



Operating point parameters

Required operating point				
Airflow q_v	3830	5340	7080	m³/h
Required pressure p_{req}	1040	767	632	Pa
Medium density ρ_{air}	1.204	1.204	1.204	kg/m³
Calculated operating point				
Airflow q_v	3830	5340	7080	m³/h
Mass flow q_m	1.281	1.786	2.368	kg/s
Static pressure p_{static}	1040	767	632	Pa
Total pressure p_{total}	1077	839	759	Pa
Total pressure differential Δp_{out-in}	1050	787	667	Pa
Dynamic pressure $p_{dynamic}$	37.2	72.3	127.1	Pa
Medium density ρ_{air}	1.204	1.204	1.204	kg/m³
Frequency f	54.21	51.02	52.03	Hz
Control signal 0–10V $U_{EC, control}$	0	0	0	V
Rotational speed n	1572	1480	1509	rpm
Linear velocity v	6.69	9.33	12.37	m/s
Power consumption P	2191	1882	2056	W
Shaft power P_{shaft}	1900	1631	1783	W
Aerodynamic power P_{air}	1117	1167	1312	W
Motor load ratio M_{load}	99.6	85.5	93.5	%
Shaft Torque T_{shaft}	11.541	10.531	11.284	Nm
Static efficiency η_{static}	50.5	60.46	60.46	%
Total efficiency η_{total}	52.3	66.16	72.61	%
Motor efficiency η_{motor}	86.7	86.69	86.71	%
Rotor efficiency η_{imp}	58.82	71.56	73.58	%
Specific Fan Power SFP	2059	1269	1045	W/m³/s
Fan Energy Index FEI	1.19	1.43	1.43	
Sound pressure level L_{pa}	0	0	0	dB(A)
Sound power level L_{wa}	88.5	85.6	85.3	dB(A)

Nominal data

Maximum airflow $q_{v, max}$	12000 m³/h
Maximum static pressure $p_{static, max}$	1100 Pa
Nominal rotational speed n_{rated}	1450 rpm
Number of electrical phases ϕ	3
Rated voltage U_{rated}	230/380 V
Rated power P_{rated}	2200 W
Rated Frequency f_{rated}	50 Hz
Rated Current I_{rated}	14/4.9 A
Maximum power consumption $P_{max, abs}$	2195 W
Motor power supply type $Tp_{motor, supply}$	AC
Number of motor poles p_{motor}	4
Motor protection class IP IP_{motor}	IP55
Motor insulation class $Ins_{motor, class}$	F
Motor rated power in kW $P_{motor, rated, kW}$	2.2 kW
Motor energy efficiency class $\eta_{motor, class}$	IE3
Rated motor speed $n_{motor, rated}$	1450 rpm
Control type T_{reg}	Inverter
Maximum Allowable Frequency $f_{max, allow}$	60 Hz
Minimum allowable frequency $f_{min, allow}$	25 Hz
Minimum operating temperature $t_{op, min}$	-20 °C
Maximum operating temperature $t_{op, max}$	50 °C
Maximum medium temperature $t_{med, max}$	50 °C
Sound power level emitted from the casing $L_{wa, 2}$	85 dB(A)
Weight m	145 kg
Width w	785 mm
Height h	850 mm
Inlet diameter D_{in}	450 mm
Outlet profile $A \times B_{out}$	330x410 mmx mm
Maximum static efficiency $\eta_{static, max}$	61.54 %
Maximum total efficiency $\eta_{total, max}$	73.7 %
Maximum impeller efficiency $\eta_{imp, max}$	73.97 %
Fan Energy Grade (FEG) FEG	75
Maximum motor efficiency $\eta_{motor, max}$	86.713 %
Impeller type Tp_{imp}	Centrifugal Rotor
Blade profile $Tp_{imp, blade}$	Backward curved blades
Rotor Surface S_{imp}	Galvanized
Impeller material Mt_{imp}	Carbon steel
Blade material Mt_{blade}	Stainless steel
Drive type Tp_{drive}	Direct drive
Casing material Mt_{cas}	Carbon steel
ErP verification type ErP_{type}	Fan
ErP exemption reason ErP_{exempt}	No exemption
Measurement category $ErP_{mism, cat}$	B
VSD type ErP_{vsd}	Without control
Fan efficiency η_{act}	73.7 %
Efficiency coefficient N_{act}	81.4
Airflow q_v	7800 m³/h
Pressure increase Δp	634.5 Pa
Power consumption P_e	1865 W
Specific speed σ_{BEP}	7.18
Rotational speed n	1450 rpm
Characteristic coefficient C_c	1
Compliance with ErP2026 regulation (2024/1834) ErP_{2026}	true

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