



PLANETFAI

AXIAL FANS

KSU & KSBF

Ø500 ÷ Ø1000 mm

DESIGNED FOR WOOD DRYING KILNS



Republic
of Poland



European Union
European Regional
Development Fund



Axial fans KSU and KSBF Ø500 ÷ Ø1000 mm designed for wood drying kilns



Axial fans KSU and KSBF are produced in diameters from Ø500 to Ø1000 mm. As standard they are equipped with reversible (bi-directional) impellers. They have been designed to operate in wood drying kilns and other installations where it is required to change the direction of air flow by changing the direction of electric motor rotation. KSU and KSBF fans are adapted to operate in temperatures from -20 to +105 °C. They are equipped with special impellers based on cup-shaped blades, thanks to which they achieve maximum air flows in a housing with a short inlet and outlet.

Additional applications: dryers for herbs, tobacco, fruits and vegetables, pasta, animal feed.



KSU fans with diameters of Ø500 and Ø630mm are ALSO successfully used in VACUUM KILNS.

KSU and KSBF fans are perfect for installation in new drying kilns and as spare parts for modernized ones.


Distinguishing features of the KSU and KSBF series of types:

- High efficiency of the fan in a housing with a short inlet and outlet
- 100% reversible
- Resistance to corrosive agents
- The highest quality of components used in electric motors
- Optimized housing shape

Standard version of the fans:

- Diameters: Ø500 – Ø1000 mm
- Impellers used: reversible (bi-directional)
- Air volume range: 5000 – 46800 m³/h
- Operational temperatures: from -20 to + 105°C
- Installed motors outputs: 0.55 – 5.5 kW
- Motors speed: 1500 min⁻¹
- Impellers equipped with blades and hubs made of die-cast aluminum
- Motors equipped with maintenance-free bearings
- Motors as standard adapted to the speed control by means of a frequency converter
- Machined housings with welded motor base, material: aluminum

Optional fans executions:

- Diameters from Ø280 to Ø2150 mm
- Operating temperatures: -30 to +120°C
- One-way impellers
- Explosion-proof EX  for explosion hazard zones: 2G; 3G; or 2D; 3D (temp. max. +40°C)
- Casing made of stainless steel
- Additional powder coating
- Flow parameters other than standard

Standard maximum KSU and KSBF operating temperature:

+105°C

Optional maximum KSU and KSBF operating temperature:

+120°C

Electric motor:

- Asynchronous 3-phase
- Supply voltage: 3~ 230/400V; 400/690V
- Insulation class: F or H
- Ingress protection: IP 55

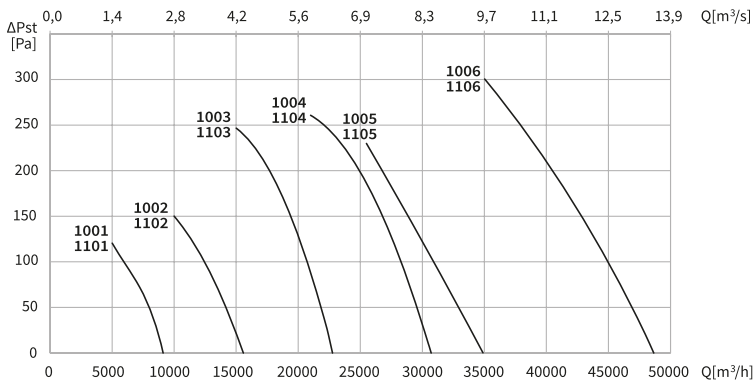
Optional motors executions:

- Supply voltage: 3~ 440V, 460V
- Frequency power supply: 60Hz
- Efficiency class: IE 4 or higher
- Ingress protection: IP 56, IP 66
- Winding temperature sensors
- Bearing temperature sensors
- Grease nipples to lubricate the bearings



Airflow curves

KSU & KSBF



KSBF fans differ from KSU fans in that they have larger pitch diameters of holes on the connection flange.



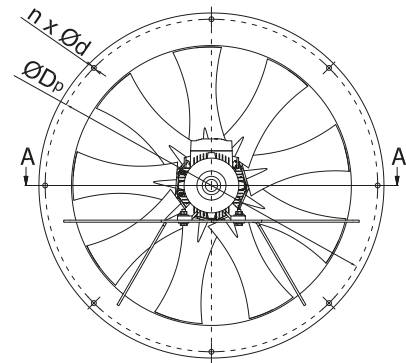
Technical data

Cat. no.	Fan type	Cat. no.	Fan type	Diameter ØD [mm]	Motor output [kW]	Revolution speed [min ⁻¹]	Air volume max [m ³ /h]	Pressure max [Pa]	Mass [kg]
1001	KSU500/0.55/8/Al.rev	1101	KSBF500/0.55/8/Al.rev	500	0.55	1400	9000	120	17
1002	KSU630/1.1/5/R/Al.rev	1102	KSBF630/1.1/5/R/Al.rev	630	1.1	1420	15500	150	26
1003	KSU710/2.2/9/R/Al.rev	1103	KSBF710/2.2/9/R/Al.rev	710	2.2	1420	22500	250	38
1004	KSU808/3.0/9/R/Al.rev	1104	KSBF808/3.0/9/R/Al.rev	808	3.0	1420	30500	250	39
1005	KSU900/4.0/6/R/Al.rev	1105	KSBF900/4.0/6/R/Al.rev	890	4.0	1450	34900	230	68
1006	KSU1000/5.5/8/R/Al.rev	1106	KSBF1000/5.5/8/R/Al.rev	985	5.5	1450	48600	300	82

KSU & KSBF FANS

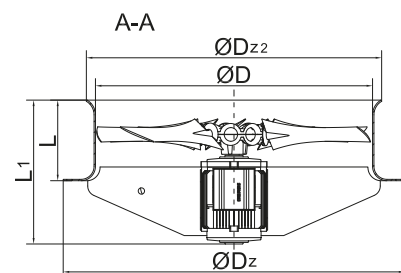
Dimensions

Cat. no.	Fan type	ØD	ØDz	ØDp	ØDz2	L	L1	n	Ød
1001	KSU500/0.55/8/Al.rev	500	640	610	553	185	~343	8	12
1002	KSU630/1.1/5/R/Al.rev	630	770	740	683	185	~376	8	12
1003	KSU710/2.2/9/R/Al.rev	710	850	820	763	185	~389	8	12
1004	KSU808/3.0/9/R/Al.rev	808	950	920	861	185	~389	8	14
1005	KSU900/4.0/6/R/Al.rev	890	1030	1000	943	185	~389	8	14
1006	KSU1000/5.5/8/R/Al.rev	985	1125	1095	1038	235	~457	8	14



Dimensions

Cat. no.	Fan type	ØD	ØDz	ØDp	ØDz2	L	L1	n	Ød
1101	KSBF500/0.55/8/Al.rev	500	680	630	553	195	~360	8	12
1102	KSBF630/1.1/5/R/Al.rev	630	818	760	683	195	~365	8	12
1103	KSBF710/2.2/9/R/Al.rev	710	898	860	763	195	~390	8	12
1104	KSBF808/3.0/9/R/Al.rev	808	996	960	861	235	~430	8	14
1105	KSBF900/4.0/6/R/Al.rev	890	1078	1040	943	235	~410	8	14
1106	KSBF1000/5.5/8/R/Al.rev	985	1173	1115	1038	235	~440	8	14



The flow parameters presented in this brochure have been determined for the air density of $\rho = 1.2 \text{ kg/m}^3$ and are indicative data showing the general performance and pressure ranges of KSU and KSBF fans.

The dimensions of the products provided are not binding and constitute general information.

The manufacturer reserves the right to change, correct and/or improve the information and products presented in this brochure.



Planetfan – is ISO 9001:2015 & ISO 45001:2018 certified company.

Planetfan Ltd. is a producer of axial and radial fans. It has an engineering staff and its own research laboratory to determine flow curves. It produces fans equipped with motors outputs from 0.75 to 200kW. Production takes place in Poland.

The full range of production is available at: www.planetfan.pl

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**Do you need bigger diameter fan than
Ø1000mm?**

Check out our **KSA** series fans with
diameters from Ø1000 to **Ø2150mm**.



**FAN
TASTIC
RESULTS**

