



PLANETFAI

AXIAL FANS

KSN & KBFN

Ø500 – Ø1120mm

DESIGNED FOR WOOD DRYING KILNS



**NEXT-GENERATION
REVERSIBLE IMPELLERS –
SUPERIOR AERODYNAMIC
PERFORMANCE**



Fundusze Europejskie
dla Śląskiego



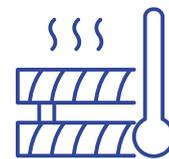
Rzeczpospolita
Polska

Dofinansowane przez
Unię Europejską



Województwo
Śląskie

Axial fans KSN and KBFN Ø500 ÷ Ø1120 mm designed for wood drying kilns



KSN & KBFN
FANS

The KSN and KBFN series drying fans represent a trusted solution built on proven reliability – now taken to the next level with a redesigned, high-performance reversible impeller.

Engineered by Planetfan with precision and purpose, the new impeller is the outcome of expert design and years of hands-on experience. Its bell-shaped blades, already validated over years of operation, have been further refined with a double-curved profile applied in a strategically optimized blade zone – unlocking even greater aerodynamic efficiency. This advanced blade geometry allows the fan to deliver outstanding performance, even in compact or space-constrained installations.

By combining cutting-edge design tools with deep industry expertise, Planetfan has created a next-generation bidirectional fan that delivers full reverse airflow capability – with equal efficiency in both directions.

KSN and KBFN fans are equipped with durable aluminium housings, making them ideal for operation in highly corrosive environments. They are specifically designed to perform reliably in conditions of elevated humidity and the presence of organic compounds released during wood drying processes.

These fans maintain consistent and dependable operation across a broad temperature range, from -20°C to +105°C.

The new KSN and KBFN fans are available in a diameter range from Ø500mm to Ø1120mm.



KSN/ KBFN maximum operating temperature:

Standard: +105 °C

Optional: +130 °C

Beyond wood drying – ideal for a wide range of applications, including herbs, tobacco, fruits, vegetables, pasta, and pet food.

Tailored for precision – the Ø500 and Ø630mm KSN fans are an excellent choice for use in vacuum wood dryers.

A smart choice for both new installations and modernization projects – KSN and KBFN fans ensure compatibility and performance.

Key distinguishing features of the KSN and KBFN fan series:

- Reversible impeller design developed through aerodynamic channel simulations, tailored specifically for the operating conditions of wood drying kilns
- The lightest impeller blades on the market, designed to reduce motor bearing load and extend service life
- Top-tier aerodynamic efficiency, even in housings with short inlet and outlet sections
- 100% reversibility for effective operation in both airflow directions
- High resistance to corrosive environments
- Electric motors co-developed with leading manufacturers, purpose-built for wood drying applications
- Optimized housing geometry for improved performance and integration

Standard specification of KSN and KBFN fans:

- Available diameters: Ø500 – Ø1120 mm
- Impeller type: Bidirectional (reversible) design
- Airflow range: 5,000 – 75,500 m³/h
- Operating temperature range: -20°C to +105°C
- Installed motor powers: 0.55 – 11.0 kW
- Motor speed: 1000, 1500 min⁻¹
- Impellers equipped with blades and hubs made of high-pressure die-cast aluminium
- Motors fitted with maintenance-free bearings
- Motors factory-prepared for speed control via frequency inverter
- Casings made with precision machining and welded motor base – material: aluminium

Electric motor:

- Three-phase asynchronous motor
- Supply voltage: 3~ 230/400 V or 400/690 V
- Insulation class: F or H
- Protection rating: IP55

Optional Fan Configurations

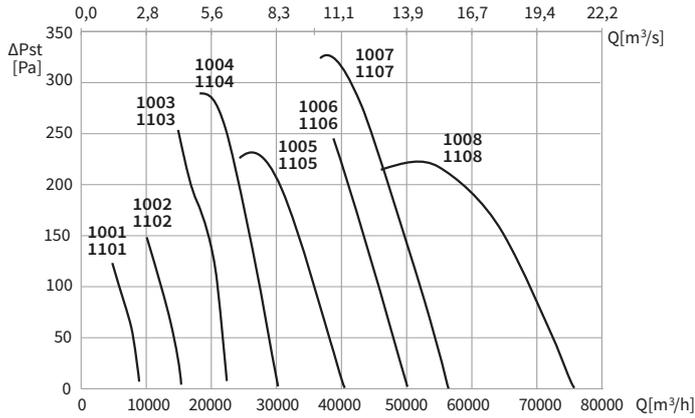
- Diameters from Ø280 to Ø2150 mm (7 ft)
- Operating temperature range: -20°C to +130°C
- Unidirectional impellers
- Explosion-proof (EX)  versions for hazardous zones: 2G, 3G, 2D, or 3D (max ambient temp. +40°C)
- Stainless steel housing
- Additional powder coating available
- Custom airflow parameters on request
- Motor power options up to 37 kW

Optional Motor Configurations

- Supply voltage: 3~ 440 V, 460 V
- Supply frequency: 60 Hz
- Efficiency class: IE4 or higher
- Protection rating: IP56, IP66
- Winding temperature sensors
- Bearing temperature sensors
- Grease fittings for bearing re-lubrication

Performance Curves:

KSN & KBFN



What sets KBFN fans apart from the KSN series is the larger bolt circle diameter on the connection flange.



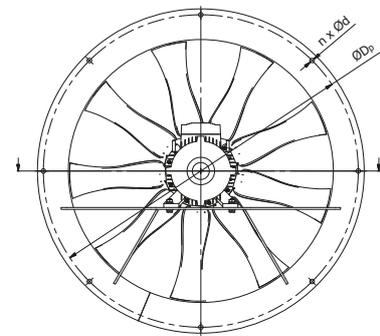
Technical Specifications:

Cat. no.	Fan type	Cat. no.	Fan type	Diameter ØD [mm]	Motor output [kW]	Rotational speed [min ⁻¹]	Airflow max [m³/h]	Pressure max [Pa]	Weight [kg]
1001	KSN500/0,55/8/Al.rev	1101	KBFN500/0,55/8/Al.rev	500	0,55	1400	9000	120	17
1002	KSN630/1,1/5/RS/Al.rev	1102	KBFN630/1,1/5/RS/Al.rev	630	1,1	1420	15500	150	26
1003	KSN710/2,2/9/RS/Al.rev	1103	KBFN710/2,2/9/RS/Al.rev	710	2,2	1420	22500	250	38
1004	KSN808/3,0/9/RS/Al.rev	1104	KBFN808/3,0/9/RS/Al.rev	808	3,0	1420	30300	275	39
1005	KSN909/4,0/5/RS/Al.rev	1105	KBFN909/4,0/5/RS/Al.rev	909	4,0	1450	40300	230	68
1006	KSN1010/5,5/6/RS/Al.rev	1106	KBFN1010/5,5/6/RS/Al.rev	1010	5,5	1450	50000	245	82
1007	KSN1010/7,5/6/RS/Al.rev	1107	KBFN1010/7,5/6/RS/Al.rev	1010	7,5	1450	56500	320	86
1008	KSN1120/11,0/12/RS/Al.rev	1108	KBFN1120/11,0/12/RS/Al.rev	1120	11,0	1450	75500	220	169

KSN & KBFN FANS

Dimensions

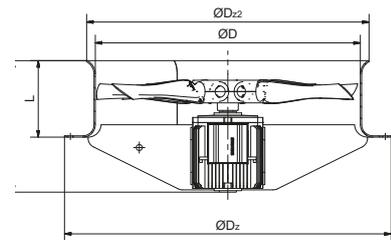
Cat. no.	Fan type	ØD	ØDz	ØDp	ØDz2	L	L1	n	Ød
1001	KSN500/0,55/8/Al.rev	500	640	610	553	185	~343	8	12
1002	KSN630/1,1/5/RS/Al.rev	630	770	740	683	185	~376	8	12
1003	KSN710/2,2/9/RS/Al.rev	710	850	820	763	185	~389	8	12
1004	KSN808/3,0/9/RS/Al.rev	808	950	920	861	185	~389	8	14
1005	KSN909/4,0/5/RS/Al.rev	909	1049	1019	962	185	~389	8	14
1006	KSN1010/5,5/6/RS/Al.rev	1010	1150	1105	1063	235	~457	8	14
1007	KSN1010/7,5/6/RS/Al.rev	1010	1150	1105	1063	235	~457	8	14
1008	KSN1120/11,0/12/RS/Al.rev	1120	1260	1230	1173	235	~457	8	14



A-A

Dimensions

Cat. no.	Fan type	ØD	ØDz	ØDp	ØDz2	L	L1	n	Ød
1101	KBFN500/0,55/8/Al.rev	500	680	630	553	195	~360	8	12
1102	KBFN630/1,1/5/RS/Al.rev	630	818	760	683	195	~365	8	12
1103	KBFN710/2,2/9/RS/Al.rev	710	898	860	763	195	~390	8	12
1104	KBFN808/3,0/9/RS/Al.rev	808	996	960	861	235	~430	8	14
1105	KBFN909/4,0/5/RS/Al.rev	909	1095	1060	980	235	~480	8	14
1106	KBFN1010/5,5/6/RS/Al.rev	1010	1160	1115	1070	235	~480	8	14
1107	KBFN1010/7,5/6/RS/Al.rev	1010	1160	1115	1070	235	~480	8	14
1108	KBFN1120/11,0/12/RS/Al.rev	1120	1270	1236	1190	285	~510	8	14



The airflow parameters presented in this brochure are based on an air density of $\rho = 1.2 \text{ kg/m}^3$ and are indicative values intended to show the general performance range (airflow and pressure) of KSN and KBFN fan series. The product dimensions provided are non-binding and serve as general information only. The manufacturer reserves the right to make changes, improvements, and/or corrections to the information and products presented in this brochure at any time, without prior notice to the customer.



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

INNOVATION IN MOTION!

Planetfan Sp. z o.o. is a manufacturer of axial and centrifugal fans. The company has its own team of engineers and an in-house testing laboratory for determining fan performance characteristics.

Planetfan produces fans equipped with motors ranging from 0.75 to 200 kW.

Production takes place in Poland. The full range of production is available at: www.planetfan.pl

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www.planetfan.pl

Do you need bigger diameter fan than Ø1120mm?

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



**FAN
TASTIC
RESULTS**

