



PLANETFAIR

# WOHT & WOAG

FANS  
FOR MODERN GRAIN DRYERS



# WOHT and WOAG fans for modern grain dryers



WOHT and WOAG fans are medium-pressure axial fans, designed for installation in modern grain dryers. These fans can be installed directly in the process air stream of the dryer, which is characterized by high humidity and contains large amounts of dust and grain particles. WOHT and WOAG fans have been designed in such a way that can resist unfavorable operating conditions. The fan casings are equipped with special chambers isolating the electric motors from the process air flowing around them and from the prevailing weather conditions. Such a design of the fans ensures failure-free operation, regardless of the type of grain being dried and installation place.

**WOHT and WOAG fans are perfect for environments where dust particles with humid air can form sticky substances that have a negative impact on standard fan lifetime.**



## Distinguishing features of the fans WOHT and WOAG series:

- Robust industrial design
- Aluminum impellers designed with rear guide vanes
- High efficiency
- Inspection hatch in the casing
- The casing equipped with a compartment for separating the motor from process air stream
- Lower energy consumption while maintaining high pressures

## Maximum operating temperatures:

**WOHT**  
**+105°C**

**WOAG**  
**+70°C**

The flow system of the fan is: impeller and rear guide vanes. The optimized shape of the impeller blades generate higher than standard pressures while maintaining very high efficiency. Industrial impellers are made of die-cast aluminum. This material is characterized by a higher resistance to erosion of the blade leading edge in comparison to plastics.

## Standard version of the fans:

- Diameters: Ø800, Ø900, Ø1000 mm
- Air volume range: 22,000 – 83400 m<sup>3</sup>/h
- Operational temperatures: WOAG from -20 to +70°C, WOHT from -20 to +105°C
- Installed motors outputs: 7.5 – 37.0 kW
- Motors speed: 1500 min<sup>-1</sup>
- 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
- Steel housings, equipped with a rear guide vanes and a special motor compartment
- Corrosion protection of the housing – hot dip galvanizing

## Electric motor:

- Asynchronous 3-phase;
- Supply voltage: 3~ 230/400V; 400/690V
- Efficiency class: IE 3
- Insulation class: F
- Ingress protection: IP55

## Optional fans executions:

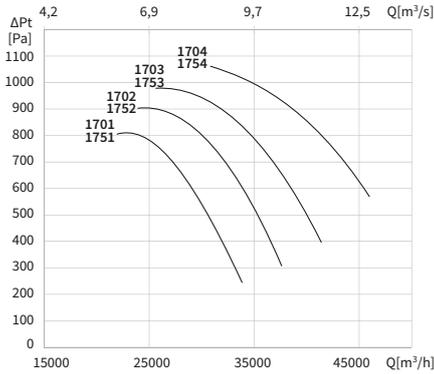
- Diameters from Ø280 to Ø2000 mm
- Explosion proof EX  for hazardous areas, zones: 2G; 3G; or 2D; 3D (temp. max +40°C)
- Housing made of stainless steel
- Powder coated casing
- Non-standard flow parameters

## Optional motors executions:

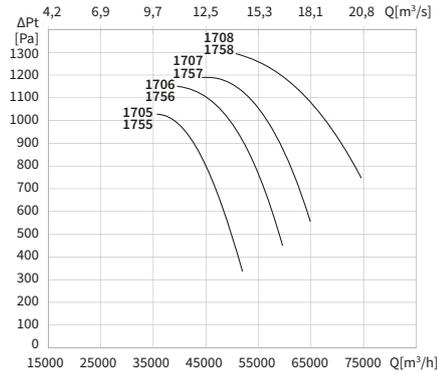
- Supply voltage: 3~ 440V, 460V
- Frequency: 60Hz
- Efficiency class: IE 4
- Insulation class: H
- Ingress protection: IP 56, IP66
- Winding temperature sensors
- Bearing temperature sensors

## Airflow curves

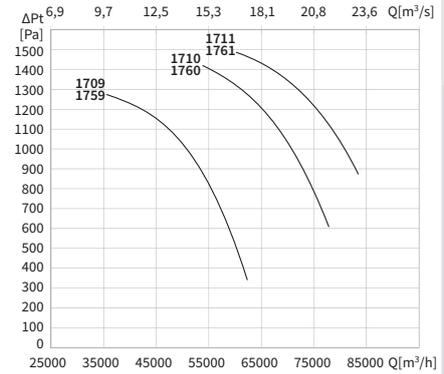
### WOHT800 / WOAG800



### WOHT900 / WOAG900



### WOHT1000 / WOAG1000



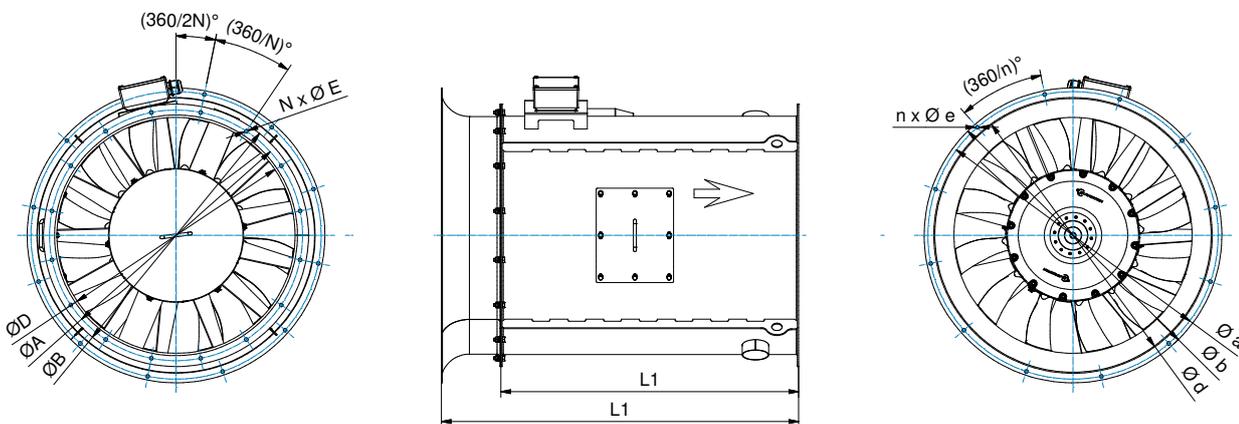
## Technical data

Cat. no.	Fan type	Cat. no.	Fan type	Motor output [kW]	Revolution speed [min <sup>-1</sup> ]	Air volume max [m <sup>3</sup> /h]	Pressure max [Pa]	Weight [kg]
1751	WOHT 800/7,5-4/12	1701	WOAG 800/7,5-4/12	7,5	1460	33860	800	270
1752	WOHT 800/9,2-4/12	1702	WOAG 800/9,2-4/12	9,2	1435	37600	900	295
1753	WOHT 800/11,0-4/12	1703	WOAG 800/11,0-4/12	11	1465	41400	980	326
1754	WOHT 800/15,0-4/12	1704	WOAG 800/15,0-4/12	15	1465	46000	1050	345
1755	WOHT 900/15,0-4/12	1705	WOAG 900/15,0-4/12	15	1465	51900	1030	455
1756	WOHT 900/18,5-4/12	1706	WOAG 900/18,5-4/12	18,5	1470	59600	1150	474
1757	WOHT 900/22,0-4/12	1707	WOAG 900/22,0-4/12	22	1470	64850	1190	498
1758	WOHT 900/30,0-4/12	1708	WOAG 900/30,0-4/12	30	1475	74500	1290	587
1759	WOHT 1000/22,0-4/12	1709	WOAG 1000/22,0-4/12	22	1470	62300	1275	510
1760	WOHT 1000/30,0-4/12	1710	WOAG 1000/30,0-4/12	30	1475	77800	1420	595
1761	WOHT 1000/37,0-4/12	1711	WOAG 1000/37,0-4/12	37	1485	83400	1485	639

## Dimensions

No.	Fan type	ØD	ØA	ØB	N	ØE	L1	L	Ød	Øa	Øb	n	Øe
1	WOHT 800/a,a-4/12	800	850	890	16	12	1000	1200	936	975	1000	12	12
2	WOHT 900/a,a-4/12	900	950	990	16	12	1000	1200	1036	1075	1100	12	12
3	WOHT 1000/a,a-4/12	1000	1050	1090	16	12	1000	1200	1136	1175	1200	12	12

NOTE: WOAG type fans for a specific diameter and installed motor output have the same flow parameters as the WOHT type.



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 WOHT and WOAG 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](http://www.planetfan.pl)

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