

DATASHEET

ENGLISH

## OUR Z SERIES

The Z series is one of our broadest series; therefore it can be used in just about any air moving application. It covers diameters from 225 mm to 1261 mm. As with all Multi-Wing impellers, the Z series is designed to have high efficiency and low noise level and to be corrosion resistant. It is robust yet light-weight resulting in less wear and stress on motors and bearings.

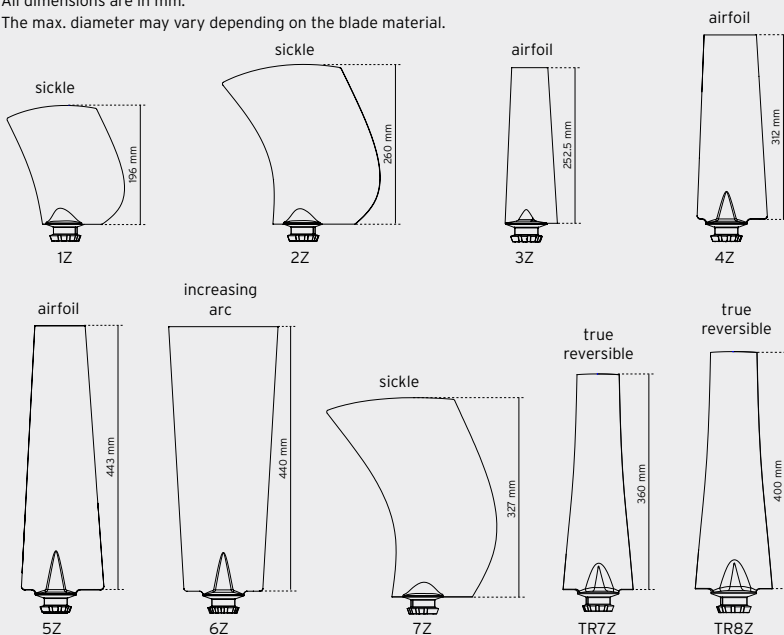
The Z series is widely used in the ventilation and cooling industry as well as in automotive applications where environmental requirements are more demanding. It also offers a suitable solution in applications that demand high performance in difficult flow conditions, where there is less focus on power consumption. The Z series also features reversible impellers designed specifically for drying applications.

### Max diameter

Blade type									Pos. in hub
1Z	2Z	3Z	4Z	5Z	6Z	7Z	TR7Z	TR8Z	No.
541	670	650	769	1031	1025	800	865	945	5
574	703	683	802	1064	1058	833	898	978	6
582	711	691	810	1072	1066	841	906	986	7
660-662	789-791	771	890	1152	1146	921	986	1066	8
596	725	705	824	1086	1080	855	920	1000	9
673-676	805	785	904	1166	1160	935	1000	1080	12
-	-	880	999	1261	1255	1030	1095	1175	16

All dimensions are in mm.

The max. diameter may vary depending on the blade material.



### Design Features

- 9 fan blades of different designs and sizes with adjustable pitch setting.
- 11 standard pitch angles ranging from 15° to 50°.
- Fan blades for both clockwise and counter-clockwise rotation.
- 7 hub sizes (5, 6, 7, 8, 9, 12 & 16 blades all symmetrically arranged), each available in a range of bore/fixing configurations.

### Materials

The hub parts are as standard manufactured in a pressure die cast silumin alloy EN AC-AI Si12 Cu1 (Fe). The 5-blade hub is also available in a version manufactured in glass reinforced polypropylene (PPG). The fan blades are available in the following 5 materials to suit applications with different speeds and ambient temperatures.

**PPG** Glass reinforced polypropylene  
Temperature range: -10°C to +80°C

**PAG** Glass reinforced polyamide  
Temperature range: -40°C to +120°C

**PAGAS** Anti static glass reinforced polyamide  
Temperature range: -40°C to +110°C

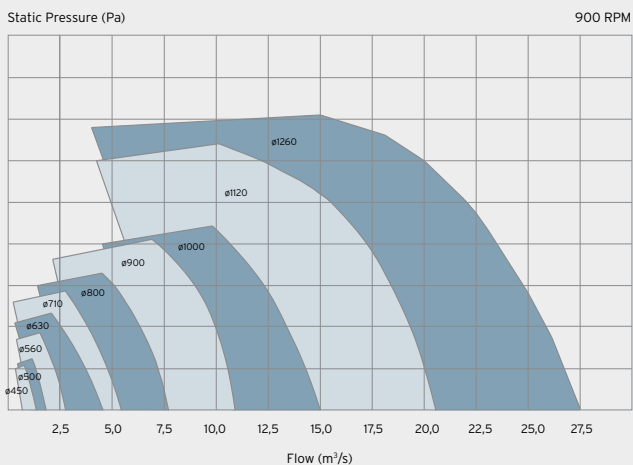
**PAGST** Vibration stabilised glassreinforced polyamide  
Temperature range: -40°C to +110°C

**AL** Aluminium  
Temperature range: -60°C to +245°C  
Standard alloy for the fan blades is EN AC-AI Si12 Cu1 (Fe).

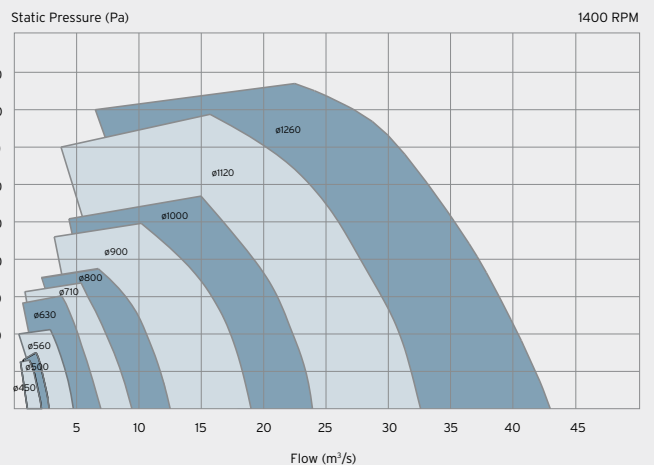
Please observe penalty factors for operation above listed max temperatures. For further information on high temperature operation please refer to Multi-Wing's Optimiser programme.

We reserve the right to change the materials of manufacture. The values for the mechanical properties are mean values and can be subject to variations due to the use of different suppliers.

### Selection guide



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