



DATASHEET

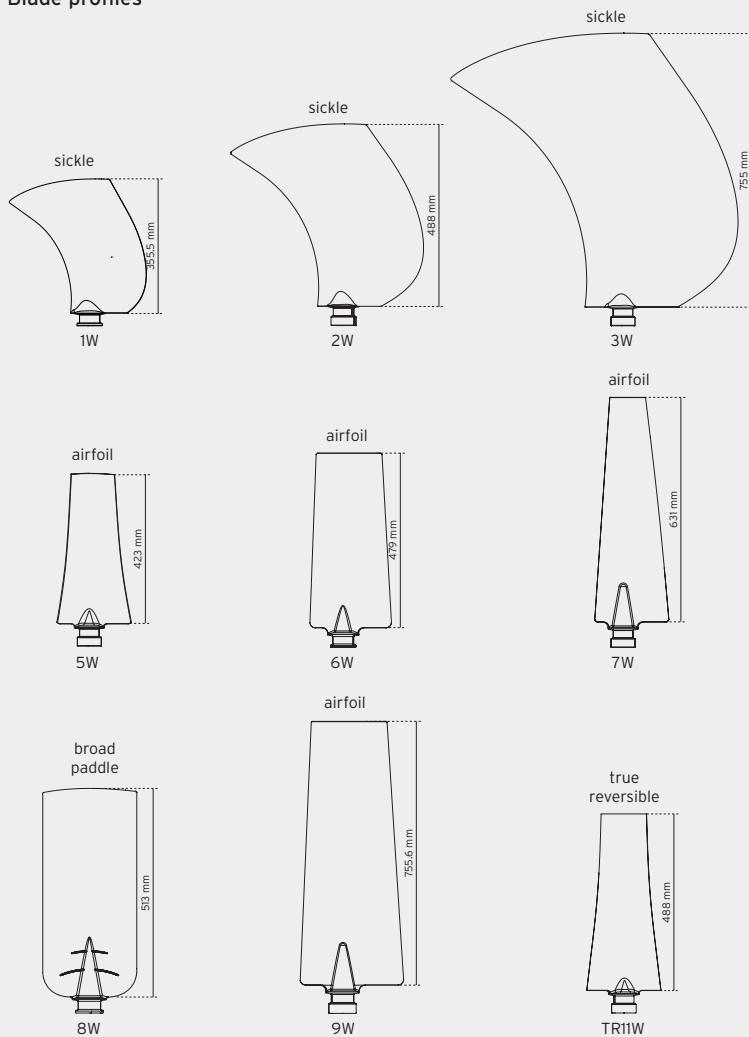
ENGLISH

## OUR W SERIES

The W series is a very comprehensive series covering diameters from 504mm up to 2141mm. With nine different blade profiles it is incredibly versatile. Consequently, it is possible to select the right axial fan for almost any air moving application.

The W series offers light but broad blades designed for coil applications with low speed motors and moderate power consumptions. The W series is also well suited for high performance air moving units such as mobile radiators and wood dryers.

## Blade profiles



## Design Features

- 9 fan blades of different designs and sizes with adjustable pitch setting.
- Unique pitch setting system ranging from 20° to 50°, allowing the impeller range to be fully adjustable with 1° increment.
- Most fan blades are available for both clockwise and counter-clockwise rotation.
- 7 hub sizes (3, 4, 5, 6, 8, 10 & 13 blades all symmetrically arranged), each available in a range of bore/fixing configurations.
- Special heavy-duty die cast aluminium hub (HP) for high temperature and high stress applications.

## Materials

The hub parts are as standard manufactured in a pressure die cast silumin alloy EN AC-AI Si12 Cu1 (Fe). 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 +90°C

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

**PAGAS** Antistatic glass reinforced polyamide  
For explosion proof working conditions  
Temperature range: -40°C to +110°C

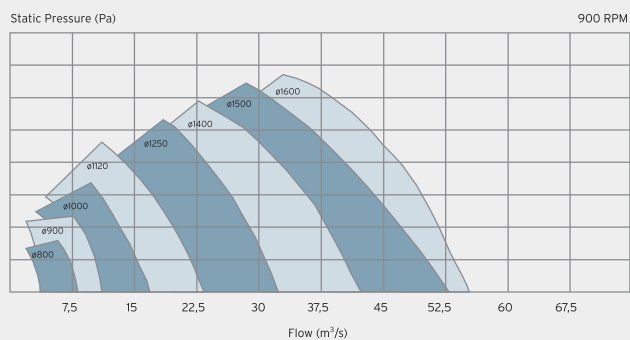
**PAGST** Vibration stabilised glass reinforced polyamide  
Temperature range: -40°C to +110°C

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

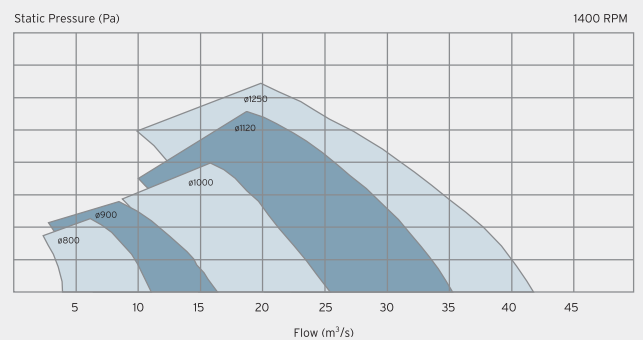
Please observe penalty factors for operation above listed max temperatures. For further information on high temperature operation please refer to Multi-Wing's Optimiser programme.

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

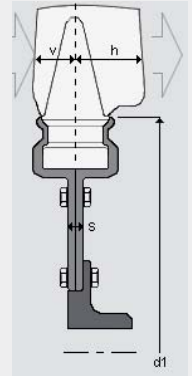


## Selection guide



### Diameters and axial extend

No. of positions in hub	d1	s	Blade type								
			1W	2W	3W	5W	6W*	7W	8W	9W*	TR11W
3 - 5 LP	200	8	905-911	-	-	-	1158	-	1226	-	-
6	274	15,4	968-985	1240-1251	1785	1120	1232	1536	1300	1785	1250
6 HP	274	15,4	-	-	-	1120	1250	-	-	1600	1250
8	380	15,4	1065-1082	1335-1355	1878-1890	1226	1338	1642	1406	1891	1356
8 HP	380	15,4	-	-	-	1226	1356	-	-	1706	1356
10	470	17	1149-1165	1417-1444	1960-1981	1316	1428	1732	1496	1981	1446
10HP	470	17	-	-	-	1316	1446	-	-	1796	1446
13	630	25	1298-1311	1559-1592	2097-2144	1476	1588	1892	1656	2141	1606



All dimensions are in mm.

\*The max. diameter may vary depending on the blade material. Aluminium blades are used with HP-hubs.

LP = Light duty die cast hub, HP = Heavy pressure die cast hub.

### Leading edge $v \pm 6$

Pitch	15°	20°	25°	30°	35°	40°	45°	50°
1W	26	29	32	35	39	41*	44*	46*
2W	38	43	47	52*	56*	59*	63*	65*
3W	-	61	68	75	81	87	92	96
5W	-	33	39	45	51	57	62	67
6W	-	-	33	39	45	52	57	63
7W	-	25	30	36	42	47	52	57
8W	14	22	32	41	50	59	68	75
9W	-	30	37	45	52	59	66	72
TR11W	-	40	47	55	61	68	74	80

All dimensions are in mm. The values are intended primarily as a guide and can be subject to variations depending on the material. The leading blade tip reaches further than the leading edge  $v$  in it's max. diameter.

### Trailing edge $h \pm 6$

Pitch	15°	20°	25°	30°	35°	40°	45°	50°
1W	43	50	58	65	74	85	95	108
2W	80	88	102	116	131	144	157	170
3W	-	126	148	170	192	213	232	250
5W	-	62	70	78	85	92	98	103
6W	-	-	68	78	86	95	102	109
7W	-	63	72	81	89	96	103	109
8W	49	58	66	74	81	88	94	100
9W	-	72	84	95	105	115	123	131
TR11W	-	40	47	55	61	68	74	80

All dimensions are in mm. The values are intended primarily as a guide and can be subject to variations depending on the material.