

# OUR W SERIES

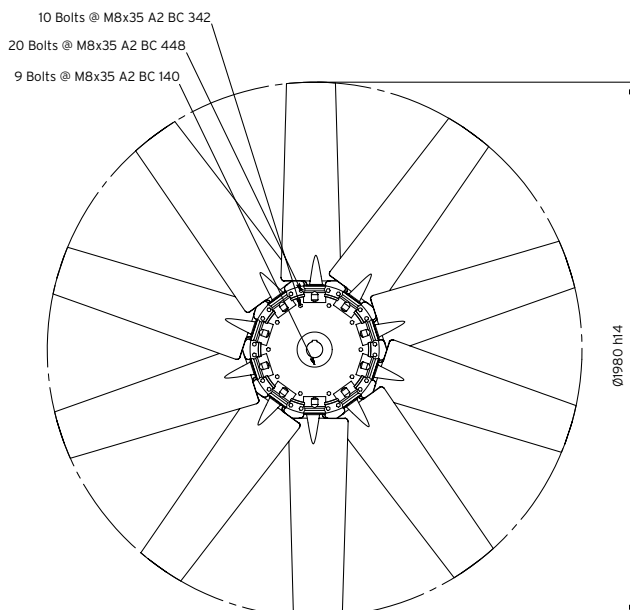
ENGLISH

## DATASHEET

The W series is a very comprehensive series covering diameters from 560mm up to 1981mm.

With six different blade profiles it is incredibly versatile. Consequently, it is possible to select the right impeller 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. And the W series is also well suited for high performance air moving units such as mobile radiators and wood dryers.



## DESIGN FEATURES

- 6 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° increments.
- Most fan blades are available for both clockwise and counter-clockwise rotation.
- 6 hub sizes (3, 4, 5, 6, 8 & 10 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 silum alloy (EN AC-AI Si12Cu1(Fe)). The 3-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

Please observe penalty factors for temperatures above 40°C.

### PAG Glass reinforced polyamide

Temperature range: -40°C to +110°C

Please observe penalty factors for temperatures above 40°C.

### PAGI Glass reinforced polyamide, industrial quality

Temperature range: -40°C to +110°C

Please observe penalty factors for temperatures above 40°C.

### PAGAS Antistatic glass reinforced polyamide

- For explosion proof working conditions

Temperature range: -40°C to +110°C

Please observe penalty factors for temperatures above 40°C.

### AL Aluminium

Temperature range: -40°C to +150°C

Standard alloy for the fan blades is (EN AC-AI Si12Cu1(Fe)).

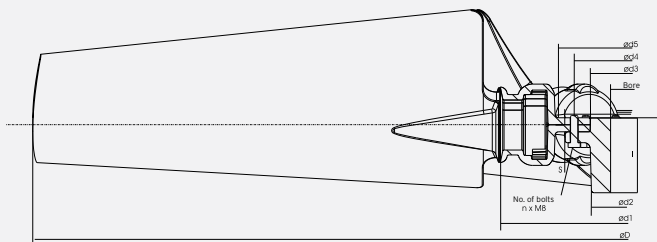
Please observe penalty factors for temperatures above 150°C.

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.

ø D max. for blade type:									Pos. in hub	ø Bore		Hub								
1W	2W	3W	5W	6W	7W	8W	9W	No.	Min-Max	l	d1	d2	d3	d4	d5	s	n			
912	-	-	-	1158	-	1226	-	3, 4 & 5 (LP)	Universal Boss (UB)	200	Universal Boss (UB)							125	4	UB
980	1250	1785	1120	1232	1536	1300	1785	5 & 6	23-38	62	274	72	90	110	145	7.7	9			
980	1250	1785	1120	1232	1536	1300	1785	5 & 6	27-38	82	274	72	90	110	145	7.7	9			
980	1250	1785	1120	1232	1536	1300	1785	5 & 6	37-48, 50 & 55	112	274	90	90	110	145	7.7	9			
980	1250	1785	1120	1232	1536	1300	1785	5 & 6	(60), 65	142	274	(90) 130	90	110	145	7.7	9			
980	1250	1785	1120	1232	1536	1300	1785	5 & 6	70, 75 & 80	142	274	160	120	140	145	14.7	9			
-	-	-	1120	1250	-	-	1600	5HP & 6HP	28	62	274	90	90	110	130	14.7	9			
-	-	-	1120	1250	-	-	1600	5HP & 6HP	38	82	274	90	90	110	130	14.7	9			
-	-	-	1120	1250	-	-	1600	5HP & 6HP	42, 48 & 55	112	274	90	90	110	130	14.7	9			
-	-	-	1120	1250	-	-	1600	5HP & 6HP	60	142	274	90	90	110	130	14.7	9			
-	-	-	1120	1250	-	-	1600	5HP & 6HP	65 & 75	142	274	130	90	110	130	14.7	9			
1076	1354	1891	1228	1338	1642	1406	1891	8	23-38	62	380	72	90	110	255	7.7	9			
1076	1354	1891	1228	1338	1642	1406	1891	8	27-38	82	380	72	90	110	255	7.7	9			
1076	1354	1891	1228	1338	1642	1406	1891	8	37-48, 50 & 55	112	380	90	90	110	255	7.7	9			
1076	1354	1891	1228	1338	1642	1406	1891	8	(60), 65	142	380	(90) 130	90	110	255	7.7	9			
1076	1354	1891	1228	1338	1642	1406	1891	8	70, 75 & 80	142	380	160	120	140	255	14.7	9			
-	-	-	1228	1356	-	-	1706	8HP	28	62	380	130	90	110	240	14.7	9			
-	-	-	1228	1356	-	-	1706	8HP	38	82	380	90	90	110	240	14.7	9			
-	-	-	1228	1356	-	-	1706	8HP	42, 48 & 55	112	380	90	90	110	240	14.7	9			
-	-	-	1228	1356	-	-	1706	8HP	60	142	380	90	90	110	240	14.7	9			
-	-	-	1228	1356	-	-	1706	8HP	65 & 75	142	380	130	90	110	240	14.7	9			
1160	1435	1981	1318	1428	1732	1496	1981	10	23-38	62	470	72	90	110	340	8.5	9			
1160	1435	1981	1318	1428	1732	1496	1981	10	27-38	82	470	72	90	110	340	8.5	9			
1160	1435	1981	1318	1428	1732	1496	1981	10	37-48, 50 & 55	112	470	90	90	110	340	8.5	9			
1160	1435	1981	1318	1428	1732	1496	1981	10	(60), 65	142	470	(90) 130	90	110	340	8.5	9			
1160	1435	1981	1318	1428	1732	1496	1981	10	70, 75 & 80	142	470	160	120	140	340	8.5	9			
-	-	-	1318	1446	-	-	1796	10HP	28	62	470	90	90	110	325	14.7	9			
-	-	-	1318	1446	-	-	1796	10HP	38	82	470	90	90	110	325	14.7	9			
-	-	-	1318	1446	-	-	1796	10HP	42, 48 & 55	112	470	90	90	110	325	14.7	9			
-	-	-	1318	1446	-	-	1796	10HP	60	142	470	90	90	110	325	14.7	9			
-	-	-	1318	1446	-	-	1796	10HP	65 & 75	142	470	130	90	110	325	14.7	9			

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



ø Bore		Hub					n
Min-Max	l	d2	d3	d4	d5	n	
9,5 - 15,0	31	28	75	90		5	
12,5 - 22,0	42	40	75	90		5	
22,0 - 25,0	52	45	75	90		5	
22,0 - 28,0	62	51	75	90		5	
27,0 - 40,0	62	73	75	90		5	
27,0 - 40,0	82	73	75	90		5	
40,0 - 48,0	112	90	75	90		10	

All dimensions are in mm. Small variations in max. diameters may occur due to different materials and casting tools. Above are dimensions for standard solutions. Other more customised solutions are also available from stock. Visit [multi-wing.com/wseries](http://multi-wing.com/wseries) for more details.

