



DATASHEET

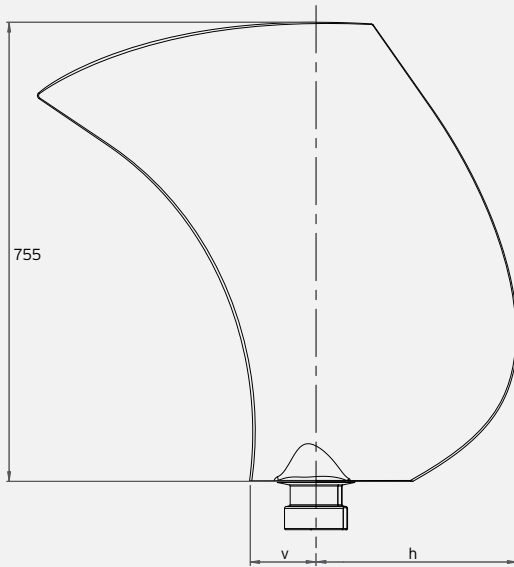
ENGLISH

3W - OUR SICKLE BLADE FOR LARGER COOLING UNITS

The 3W fan blade is the largest sickle shaped blade of the Multi-Wing sickle series with diameters from $\varnothing 1274\text{mm}$ to $\varnothing 2138\text{mm}$. The 3WL impeller is specifically aimed at large-scale applications where low noise capabilities are required such as large cooling towers, dry coolers and condensers.

Our sickle series is especially suitable for low noise applications where there is a demand for high pressure. The design and the relatively large area of the blade means that it is able to produce high pressure rates at lower speeds, resulting in lower noise levels.

The sickle-shaped series is the best solution when you must comply with noise emission regulations. Then that's why our sickle series is the natural choice in many different applications ranging from refrigeration systems to mobile radiators including oil coolers, compressors, generators and other off-highway equipment.



Design Features

Adjustable pitch setting with 1° increment ranging from 20° to 50°.
 Fan blade counter-clockwise rotation.
 4 hub sizes (5, 6, 8 & 10 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 fan blades are available in the following 2 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 +110°C

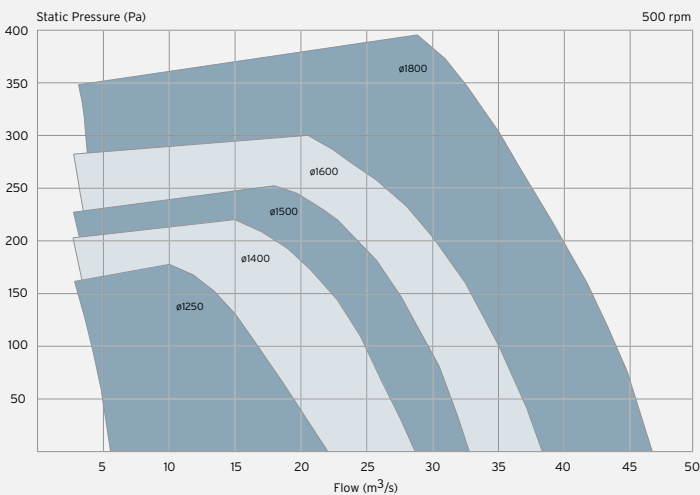
We reserve the right to change the materials of manufacture.

The values for the mechanical properties are mean values and can be subject to variations due to the use of different suppliers.

Pitch	15°	20°	25°	30°	35°	40°	45°	50°
Leading edge v±2	49	57	65	72	79	85	90	95
Trailing edge h±2	99	124	148	171	192	212	230	247

All dimensions are in mm

Selection guide



Dimensions

Max. diameter mm	No. of blades	Ø Bore Min.-max.	Length of hub mm
1784	5 or 6	23-38	62
1784	5 or 6	27-38	82
1784	5 or 6	37-48, 50 & 55	112
1784	5 or 6	60 & 65	142
1784	5 or 6	70, 75 & 80	142
1890	8	23-38	62
1890	8	27-38	82
1890	8	37-48, 50 & 55	112
1890	8	60 & 65	142
1890	8	70, 75 & 80	142
1980	10	23-38	62
1980	10	27-38	82
1980	10	37-48, 50 & 55	112
1980	10	60 & 65	142
1980	10	70, 75 & 80	142
2138	13	From 12,7 to 66,68 using taper-lock	60
2138	13	38, 42 & 48	112
2138	13	42, 45, 55, 65 & 75	142
2138	13	80	172

New hub size