



## HEAVY DUTY 3C IMPELLER

ENGLISH

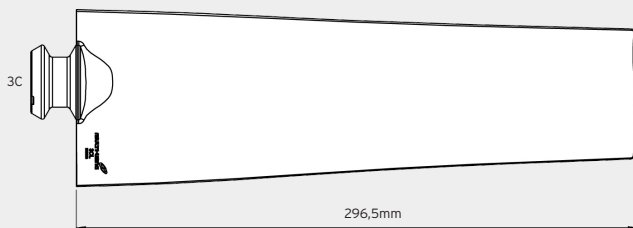
Multi-Wing's new 3C fan combines a rugged high efficiency airfoil blade with an industrial strength hub package to give you a fan that can stand up to temperature extremes from  $-60^{\circ}\text{C}$  to  $400^{\circ}\text{C}$ . Manufactured in aluminum with a reinforced hub and mounted with a stainless steel boss, the 3C is an industrial strength fan that can handle the most demanding air moving requirements in harsh environments.

The rugged 3C will also run at twice the speed of standard impellers in temperature extremes while providing excellent airflow and efficiency. With a diameter range of 405mm to 792mm (16 to 31 inches), the 3C is the perfect choice for a range of commercial refrigeration applications including air cooled condensers, blast freezers, chillers, evaporators and food processing and storage.

### Dimensions

Max. diameter	Fan blade type	No. of blades	Ø Bore Min.-max.	Length of hub
792	3C	3, 4, 6, 8 or 12	9,5 - 15,0	32
792	3C	3, 4, 6, 8 or 12	12,5 - 22,0	42
792	3C	3, 4, 6, 8 or 12	22,0 - 25,0	52
792	3C	3, 4, 6, 8 or 12	22,0 - 28,0	62
792	3C	3, 4, 6, 8 or 12	27,0 - 40,0	82
792	3C	3, 4, 6, 8 or 12	40,0 - 48,0	112

All dimensions are in mm



### Design Features

Adjustable pitch setting with 1° increment ranging from 20° to 50°.  
 Fan blades for counter-clockwise rotation.  
 One airfoiled fan blade type 3C available for diameters between 405mm and 792mm.  
 12-bladed hub fitting 3, 4, 6, 8, 9 or 12 blades all symmetrically arranged.  
 Available in a range of bore/fixing configurations.

### Materials

The hub parts and blades are as standard manufactured in a pressure die cast silumin alloy (EN AC-Al Si12 Cu1 (Fe)).  
 The bosses are machined from stainless steel.

### Aluminium

Temperature range: -60°C to +245°C in continuous operation.  
 Temperature range: +245°C to +400°C for operation in 2 hours. The permissible stress levels are reduced accordingly in our selection software Optimiser.

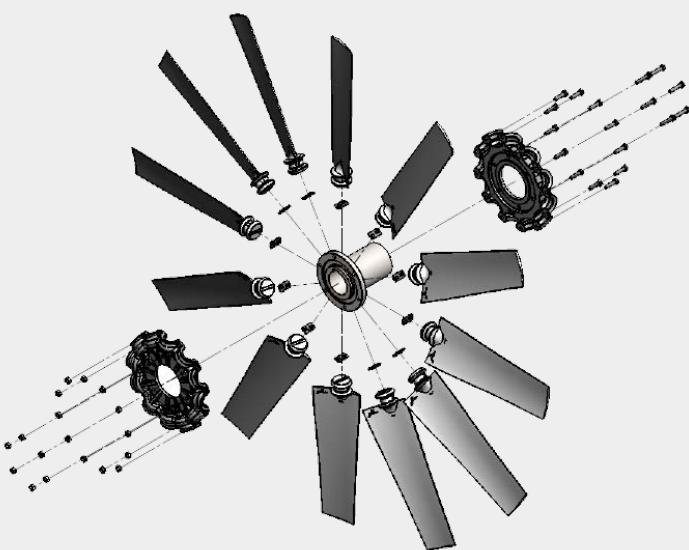
### Stainless steel

Temperature range: -60°C to +400°C for operation in 2 hours.

For operation at 400° please apply minimum 2% tip clearance to the ducting as the impeller will elongate at these temperatures.

For further information on high temperature operation please refer to Multi-Wing's Optimiser programme.

### Exploded view of 3C impeller



### Performance curve @ 4000rpm & 150°C

