

# Impellor Fan



Impellor De-stratification  
Fan

**MAGMA ENERGY SERVICES LTD**

Unit 5 Image Business Park  
East Cannock Road  
Hednesford  
Cannock  
WS12 1LT

Tel: 0845 8682119 Fax: 01543 876582

[www.magma-group.co.uk](http://www.magma-group.co.uk)

Email [office@magma-group.co.uk](mailto:office@magma-group.co.uk)

# Impellor Fan

## Introduction

These quiet but powerful fans gently propel the warm air down into the working zone. The displacement of this pool of warm air from the roof void to low level has a positive impact in the reduction of fuel usage which, depending upon building height, can be as much as 15%. Additionally, the air movement recommended has a distinctly beneficial effect on operative comfort levels by providing a high level of uniformity of warmth throughout the area where fans are applied.

## Model Range

Select the fan unit to suit the mounting height requirements. Ideally the fan should be mounted above the lighting system and with a clearance of at least 750mm between the blades and the roof. The minimum height should take account any obstruction and the safety of personnel. The minimum recommended mounting height is 2.5m.

Calculate the buildings floor area in square metres, then divide the result by the floor area coverage for the fan size selected. Bear in mind that the floor area coverage is based on maximum mounting height and this reduces if the fans are mounted lower.

Check the maximum distance between fans and the minimum clearance from the walls.

## Specification

### Motor Hub

Manufactured from die cast aluminium ensures elegance, durability and reliability

### Blades

Each fan has three precision formed, dynamically balanced blades

### Air Distribution

The fans gently move warm air back down to the lower working level with optional speed controls offering a variation on air volume amounts.

### Controls

Benson offer two types of speed controllers, the first having the capability of controlling up to three fans, whilst the second has the capability of controlling up to twelve fans.

## TECHNICAL DATA

Model		IMI400
Air displacement	m <sup>3</sup> /h	180
<b>Mounting height</b>		
Maximum	m	12
Minimum	m	2.5
Floor coverage (at Max. height)	m <sup>2</sup>	130
Maximum fan centres	m	12
Clearance to walls	m	2.5
<b>Electrics</b>		
Supply	V/ph/hz	230/1/50
Fuse rating	amps	3
Motor	Watts	75
<b>Overall dimensions</b>		
Height	mm	940
Blade sweep	mm Ø	1400
Net weight	Kg	4.3



Benson Heating, Ludlow Road  
Knighton, Powys, LD7 1LP  
United Kingdom

Telephone 01547 528534  
Facsimile 01547 520399  
E-mail sales@bensonheating.co.uk  
Website www.bensonheating.co.uk



Benson Heating Ltd is a registered trademark of AmbiRad Limited. Because of continuous product innovation, Benson Heating reserves the right to change product specification without due notice.