

Impellor De-stratification Fans



BENSON
HEATING



Impellor Fan

Reduce Fuel Usage

Improve Distribution of Warmth

Speed Controlled

www.bensonheating.com

Impellor Sweep Fans

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 distinctly beneficial effect on operative comfort levels by providing a high level of uniformity of warmth throughout the area where fans are applied.

Technical Data

Model			IM1200	IM1400
Air Displacement		m ³ /h	13200	14400
Mounting Height	Maximum	m	8	12
	Minimum	m	2.5	2.5
Floor Coverage (@ max height)		m ²	100	130
Maximum Fan centres		m	10	12
Clearance To Walls		m	2	2.5
Electrics	Supply	V/ph/hz	230/1/50	
	Fuse Rating	amps	3	3
	Motor	Watts	70	75
Overall Dimensions	Height	mm	940	940
	Blade Sweep	mm ø	1200	1400
Nett Weight		kg	4.2	4.3

Specification

Motor Hub: Manufactured from diecast 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.

Guarantee: Benson Sweep fans are provided with a twelve-month parts only guarantee.

Design

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

Secondly: 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.

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



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