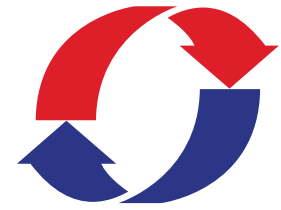


# LVF Impellor De-Stratification Fans



**powrmatic**

- reduce fuel consumption
- lowers carbon emissions
- improves heat distribution & comfort levels



# LVF Impellor De-Stratification Fans

## Duties

Model			IM1200	IM1400
Air Displacement (at maximum speed)	m <sup>3</sup> /h		18000	19500
Mounting Height	Maximum	m	10	14
	Minimum	m	2.5	2.5
Floor Coverage at maximum height	m <sup>2</sup>		160	280
Electrical Data (Load at maximum speed)	Supply	V/ph/Hz	230/1/50	
	Motor	Watts	65	80
	Load	Amps	0.35	0.45
Overall Dimensions	Height	mm	920	
	Blade Sweep	mm ø	1200	1400
Nett Weight	kg		14	35

## Introduction

LVF low velocity impellor de-stratification fans are specifically designed to lower the fuel consumption of space heating systems and, at the same time, improve comfort levels. The gentle displacement of warm air from roof level down into the working zone converts wasted heat into useful heat reducing fuel consumption. An additional benefit is the ability of the fans to enhance comfort levels by creating a uniform pattern of heat throughout the area within which they are installed.

**LVF** low velocity impellor de-stratification fans comprise of a high quality die cast motor hub housing an external squirrel cage rotor, drop rod and a set of three impellor blades, produced from high grade steel with an epoxy powder coating, factory matched and dynamically balanced.

Fans are attached to the building structure via a purpose made boss and drop rod which has the benefit of an additional safety restraining wire.

Control can be arranged via a simple client provided on/off



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switching arrangement, alternatively, we can provide a speed controller compatible with five fans and manual switching reverse rotation for summer air movement or a ten fan controller which not only has speed control but also high and low temperature sensors (inter-connecting wiring by others) which measures the temperature differential and automatically adjusts the rotation to provide winter de-stratification or summer air movement.

## Design

**Step One** Select the LFV model fan to suit the mounting height requirements. Fans should be mounted with a minimum clearance of 750mm between the blade and the roof.

**Step Two** Calculate the building floor area in m<sup>2</sup> and divide the result by the appropriate floor coverage capability of the fan taken from the table above.

**Step Three** Check that all fans are at least 2.5 m from floor level and not sited in a position where they are a danger to personnel, members of the public or where accidental contact will constitute a hazard.

## Guarantee

LVF de-stratification fans have the benefit of a twelve months parts only guarantee.

Powrmatic pursues a policy of continuous improvement in both design and performance of its products and therefore reserves the right to change, amend or vary specifications without notice. Whilst the details contained herein are believed to be correct they do not form the basis of any contract and interested parties should contact the Company to confirm whether any material alterations have been made since publication of this brochure.

