

# HCF Low Velocity Fan Range

Industrial & Commercial Heating Systems.



**powrmatric**

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**CE**

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Model			HCF 1200	HCF 1400
Air Displacement (at maximum speed)		m <sup>3</sup> /h	18,000	19,500
Mounting Height	Maximum	m	12	12
	Minimum	m	2.3	2.3
Floor Coverage At Maximum Height		m <sup>2</sup>	120	130
Electrical Data (load at maximum speed)	Supply	V/ph/Hz	230/1/50	230/1/50
	Motor	watts	48.5	60.0
	Load	amps	0.220	0.263
Overall Dimensions	Height (max)	mm	610	610
	Blade sweep	mm	1200	1400
Nett Weight		kg	4.9	5.4

## Introduction

HCF low velocity impellor de-stratification fans are specifically designed to lower the fuel consumption of space heating systems. 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.

HCF low velocity impellor de-stratification fans comprise of a high quality die cast motor hub housing an external squirrel cage rotor, 2 x alternative length down rods and a set of three impellor blades, the latter 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.

Each fan is supplied with a speed controller suitable for operating one fan. For multiple fan control Powrmatic offer the EFSC5 reversible speed control which will control up to 10 fans.

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## Design

### Step 1)

Select the HCF model fan to suit the mounting height requirements.

### Step 2)

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 3)

Check that all fans are at least 2.3 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

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

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