

HCF

De-stratification Fan Range Heat Recovery Systems



Overview

HCF low velocity impeller 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.

Models Available

- HCF 1400

Product Features

- HCF fans are manufactured with a robust design and steel blades which provide additional protection in harsh environments.
- The HCF fans are also used in conjunction with Powrmatic warm air heating systems. Suspended from the ceiling, fans are attached to the building structure via a purpose made boss and drop rod which has the benefit of an additional safety retaining wire.
- Each fan is supplied with a speed controller suitable for operating one fan. For multiple fan control Powrmatic offer an optional reversible speed controller which will control up to 10 fans.
- HCF fans will automatically recirculate high level hot air, reducing stratification and associated heat losses. It is a basic law of physics that hot air rises and in high roofed buildings this will cause a temperature gradient with hot air within the roof void and cooler air at floor level.

Specification

- The HCF Sweep fan will rotate counter clockwise forcing the wasted warm air at roof level down into the working zones improving the climate control energy efficiency.
- When used with a reversible controller the HCF fan can rotate clockwise drawing the room air up towards the ceiling and forcing the warm air back down into the working zones.
- Supplied with two down rod length options, 400mm to give a 610mm overall drop or 150mm to give a 360mm overall drop.
- High quality cast iron motor with encapsulating hub and 3 white epoxy painted, high performance blades giving 1400mm sweep.

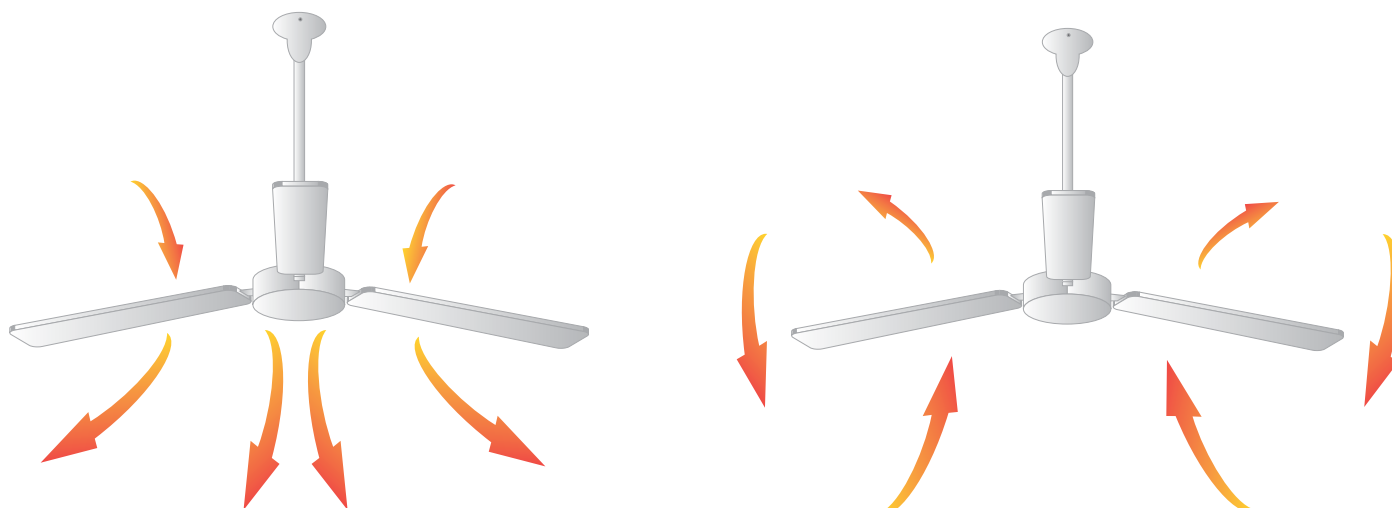
Technical Performance

HCF

| Model | | HCF 1400 | |
|--|--------------|-------------------|----------|
| Air Displacement (At Maximum Speed) | | M ³ /h | 10,000 |
| Mounting Height | Maximum | M | 12 |
| | Minimum | M | 2.3 |
| Floor Coverage At Maximum Height | | M ² | 130 |
| Electrical Data (Load At Maximum Speed) | Supply | V/ph/Hz | 230/1/50 |
| | Motor Rating | Watts | 60.0 |
| | Load Current | Amps | 0.263 |
| Overall Dimensions | Height (Max) | Mm | 610 |
| | Blade Sweep | Mm | 1400 |
| Nett Weight | | Kg | 5.4 |
| Noise Level | | dB(A) | 54 |

* **Important Note:** For full technical specification notes please refer to the product installation manual on our website at www.powrmatic.co.uk

The two diagrams below illustrate how the HCF Sweep Fans effective distribution heat throughout the space.



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