

GENERAL DESCRIPTION:

Colt Wastemaster air recirculation fans create a cushioning effect against the naturally rising warm air, preventing it from accumulating in the roof space.

APPLICATIONS

High level work stations and mezzanine floor areas benefit from the installation of the Wastemaster Unit, as they ensure that heat build up at roof level is kept to a safe minimum.

FEATURES AND BENEFITS:

Colt Wastemaster air recirculation fans can cut heating costs by up to 30% as they work like roof insulation, which means that heaters use much less fuel to maintain comfortable conditions.

Also, as the heat is distributed evenly, draughts and hot and cold spots are alleviated.

For technical details please see the following pages.



FEATURES AND BENEFITS

Comfortable working conditions for personnel.

High cost savings

Low running costs

Prevents draughts and hot & cold spots

Durable and reliable

Low maintenance needs

TECHNICAL DATA

Weight - 5.4 kg (12lb) approximately.

Case - two glass fibre black plastic mouldings.

Canopies - black polypropylene.

Blade carrier - mild steel finished in black epoxy.

Motor - ferrocore laminations encapsulated by an epoxy moulding process. Windings are class E insulation copper wire.

Bearings - grease packed during manufacture.

Fan Blades - Manufactured from aluminium

Maximum air displacement - 5.45m² /sec (11,550 ft²/min) at a maximum speed of 3.83 rev/sec (230 rev/min).

Nominal rating - 75 Watts at top speed.

Nominal current - 0.32 Amps (220-240 Volts).

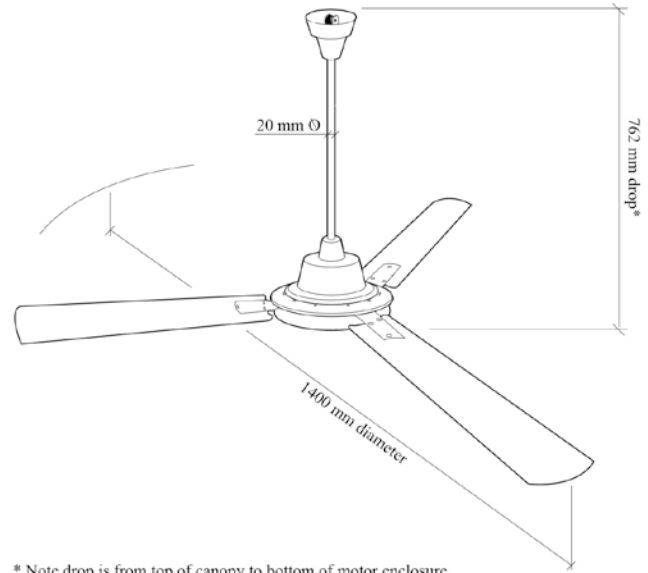
CONTROLS

A six stage speed control unit. Surface mounting supplied as standard. It is recommended that the fans be controlled so as to start and finish at the same time as the heating system.

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A case study was carried out at the Number Three Factory of Burman & Sons Limited, a subsidiary of the Duport Group. Fuel savings of 22% were recorded in carefully controlled tests, in this typical 3600m² factory building.



* Note drop is from top of canopy to bottom of motor enclosure.

Work Type	Working Level Temperature Range °C			
	13 - 15	15 - 17	17 - 19	19 - 21
Heavy	0.2	> 0.2	> 0.2	> 0.2
Medium	0.1 - 0.2	0.1 - 0.2	0.15 - 0.2	0.15 - 0.2
Light	< 0.1	0.1	0.1 - 0.15	0.1 - 0.2

Acceptable Air Velocities

INSTALLATION

Fans should be positioned symmetrically above the lighting system as high as practicable in the roof space, with a minimum of 750mm clearance between the blades and any part of the roof or wall, and at least 3m above any walkway. Mounting near ventilators or where air is allowed to exhaust through roof vents should be avoided. Space below the fans should be as unrestricted as possible.

Each fan is supplied with simple, fully illustrated assembly and installation instructions.

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