

JetFan

Energy-Efficient, Destratification Axial Fan



One of the simplest energy reduction technologies which can be installed into both new and existing buildings is thermal destratification fans, rated by the Carbon Trust as one of the top carbon reducing initiatives for any type of building.

With any conventional air heating system warm air will rise to roof level by natural convection. In high buildings such as factories, warehouses and sports centres, this can result in high temperature gradients and consequently increased energy usage. ACI's JetFan reverses the natural convection process, recirculating warm air back to working level providing a permanent reduction in roof space temperature and uniform temperature distribution.

Models available:	220/240V, IPh, 50Hz IIOV, IPh, 50Hz
Airflow:	6,000m³/hr
Fan Speed:	1290rpm
Power consumption:	400 Watts (approx)
Noise levels:	65dB(A) @ IM Free Air
Body Materials:	LDPE
Nett Weight:	14.5Kg (with chains) / 16Kg (with stand)
Dimensions:	Length: 460mm, Width/Height: 580mm
Protection:	IP54
Ancillaries:	Ceiling hanging kit, floor stand



ACI JetFan can be suspended from factory ceilings

Performance Characteristics:

- Consists of a unique aerodynamic cowling, combined with directional fins and a high quality fan
- Fan produces a long throw of air for most demanding applications/environments
- Constructed from a tough polyethylene cowl (460mm long x 580 mm height/width)
- The fan's air flow is 6,000m³/hr and power consumption is 400W (approx)
- Highly efficient, results in low energy consumption
- Supplied complete with cable, plug (US/Euro/UK), and a choice of either hanging chains for roof mounting or universal stand for floor mounting
- Options include heating elements, speed controllers and thermostats and different power supplies

Typical Applications:

- Factory Cooling and Ventilation
- Hot spot Cooling
- Fume Extraction
- Summer ambient cooling
- De-stratification / Heat Recovery in winter
- Poultry & Crop Storage

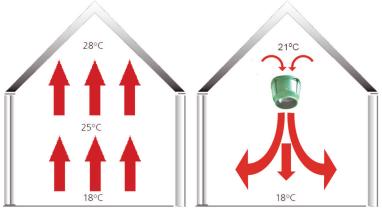


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Additional Benefits:

- Reduction of condensation in roof space and damage to internal roofing materials
- Improved working comfort for personnel
- Improvement in lifespan of equipment



Without ACI JetFan fitted

With ACI JetFan fitted

Recommendations:

- • Ceiling mounted ACI JetFans should only be used in areas with a height in excess of -5 m (16 feet)
- \bullet The volume of the building needs to be estimated Length \times Width \times Avg Height
- Rule of thumb you will need qty 1 JetFan for every 1200m3 (42,000Ft3)
- Ideally the gap between a fan and wall should be half that of the distance between two fans
- A typical example:

In a 7m tall warehouse with an 800m2 floor area, operating a single -shift five day week, a warm air heating system uses approximately 56,000kW/hr of gas per year.

A destratification system would cut energy consumption by around 20%, saving £280 a year, based on a gas price of 2.5p/kWh.

Depending on ease of access, installing the fan would recoup your costs in just over 4 years.



The ACI JetFan can also be floor-mounted and used as a mancooler

Common problems:

De-stratification fans can work very well in existing and new warm air heating systems, Using the two factors below will help avoid problems:

- Air velocity positioning fans too low for the application can cause nuisance draughts. Fitting variable speed controls can get around this problem.
- Noise choose the location to avoid excessive noise

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