

Cyclone

Car Park Induction Jet Fan Unit



Data Sheet

Colt Cyclone is a low profile, high velocity induction jet fan intended to control air movement and direct polluted air and smoke towards the extract positions in a car park or underground service area.

THE COLT CYCLONE CAR PARK INDUCTION JET FAN UNIT

General description

Colt Cyclone is a low profile, high velocity induction fan intended to control air movement in car parks and underground service areas. Cyclone reduces levels of polluted air during day to day use and assists with the extraction of smoke in the event of a fire, directing polluted air and smoke towards the extract positions in a car park or underground service area. It is tested and certified to EN 12101-3.

Cyclone uses tunnel ventilation technology to eliminate the need for costly and bulky ductwork. Compared to ductwork systems, this may save car-parking spaces, reduce running costs and noise, and make the car park a lighter, less cluttered environment.

FEATURES AND BENEFITS

Slimline design - Only 333mm or 271mm deep. This reduces the required headroom in car parks and thus lowers excavation costs.

Certified performance - Cyclone has been exhaustively tested and certified to EN 12101-3 in accredited third party test laboratories and is CE marked. Cyclone 100, Cyclone 50 and their standard isolators fully meet the F300 time/ temperature classifications of EN 12101-3 (300°C continuous operation for one hour).

Durable construction - Cyclone is manufactured from hot dipped galvanized casing with the option of a polyester powder coating to any RAL colour.

Low maintenance - With the additional advantage that there is no ductwork to clean.

High thrust - With a higher thrust, each fan can ventilate a significantly higher floor area. This means that fewer units are required than with conventional impulse units. Fewer units mean lower cabling and control requirements as well as lower installation and maintenance costs.

Speed options - Suitable for either two speed or variable speed operation, depending on the application. Where the unit is inverter (variably) controlled, the amount of power consumed is reduced.

Low noise output - CIBSE Guide Volume A: 1999, Environmental Design, sets out a recommended maximum noise level of NR55 in car parks. All Colt car park systems are designed to achieve these required noise levels.

Architectural Solutions

Climate Control

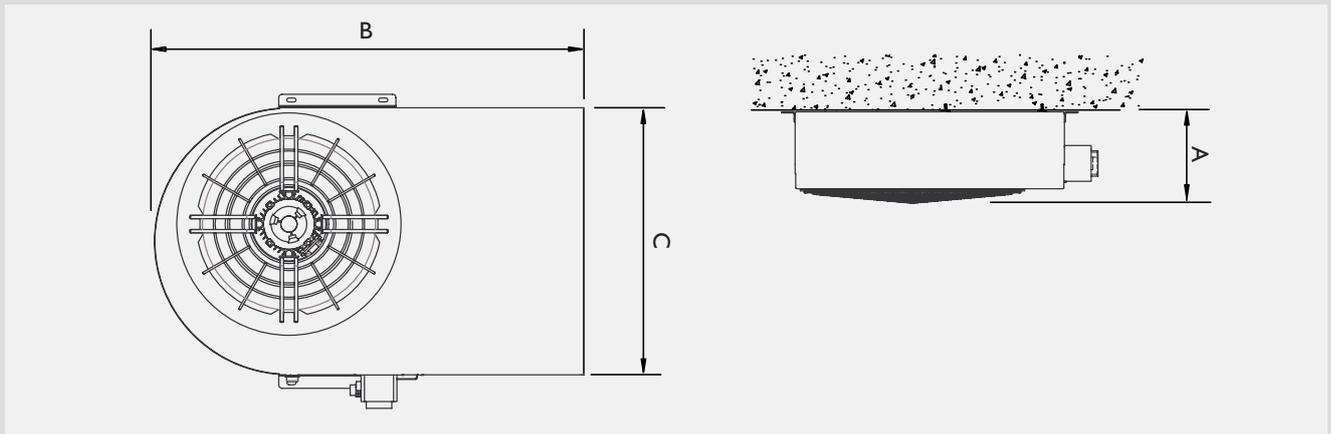
Smoke Control

Service and Maintenance

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TECHNICAL SPECIFICATION



	100N Class F300	50N Class F300
Thrust	100 N / 25 N	50 N / 12 N
Discharge Velocity	33 m/s / 17 m/s	29 m/s / 14 m/s
Air Flow	2.65 m ³ /s / 1.35 m ³ /s	1.63 m ³ /s / 0.8 m ³ /s
Motor Power (full/low speed)	2.42 kW / 0.61 kW	1.38 kW / 0.35 kW
Running current	5.4 A / 2.1 A	3.2 A / 1.4 A
LpA@3m free field (full/low speed)	76 dB(A) / 60 dB(A)	75 dB(A) / 59 dB(A)
Unit height A	333 mm	271 mm
Unit length B	1832 mm	1265 mm
Unit width C	1144 mm	784 mm

SPECIFICATION

DESCRIPTION

Colt Cyclone Car Park Induction Jet Fan - for controlling air movement in a car park or underground service area. Tested and certified to EN 12101-3.

Low profile high velocity powered car park induction ventilation unit, for directing exhaust fumes (in day to day mode) and smoke in a controlled manner towards the main extract positions of a car park or underground service area.

Incorporating a backward curved centrifugal impeller within a low profile slim-line casing manufactured from 1.5mm pre-galvanised steel with an outlet diffuser enabling flush fit with the underside of the car park ceiling.

SIZES

- Maximum 100 N thrust
- Maximum 50 N thrust

OPTIONS

- Single speed motor suitable for inverter speed control, IP55 protection
- Two speed motor (full and half speed), IP55 protection

Motors supplied either with a fitted IP55 terminal box or an optional IP65 lockable fire rated isolator.

FINISHES

- Pre-galvanised sheet
- Polyester powder coating to RAL 7035 light grey
- Polyester powder coating to any other RAL colour

FIRE PERFORMANCE

F300 - continuous operation for one hour at 300°C

SOUND EMISSIONS

CIBSE Guide Volume A: 1999, Environmental Design, sets out a recommended maximum noise level of NR55 in car parks. All Colt car park systems are designed to achieve these required noise levels.

COMPLIANCE

The complete unit, including isolator, is rated at 300°C for 60 minutes, Class F300 to EN 12101-3 (2002). Cyclone is fully CE marked.