

## Jetstream Car Park Jet Fan Unit



### Data Sheet

*Colt Jetstream is an impulse 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 JETSTREAM IMPULSE UNIT

##### General description

The Jetstream impulse unit comprises an axial fan with inlet and discharge attenuators.

##### Versions

Versions are available to match most customer requirements:

- Two fan sizes, 315mm and 400mm diameter, with overall depths of 335mm and 365mm respectively
- Thrusts of up to 50N
- Uni-directional or truly reversible for additional design flexibility
- Two speed, or single speed with potential for inverter control
- Ambient or high temperature smoke operation

#### FEATURES AND BENEFITS

**Proven performance** - Independently tested and certified in accordance with EN 12101-3: 2002, achieving a F300 rating - continuous operation for one hour at 300°C.

**Durable** - Hot dipped galvanized finish resistant to potential corrosion.

Adjustable pitch aerofoil section impellers, set and tested in the factory, to provide optimum aerodynamic performance.

A minimum protection to IP55 on fan electrics enables fan maintenance and cleaning by pressure washing. External padlockable isolator switch protected to IP65.

**Slimline appearance** - Standard version uses spigot fixing of attenuators and streamlined attenuator lining to maintain a slim, clean profile.

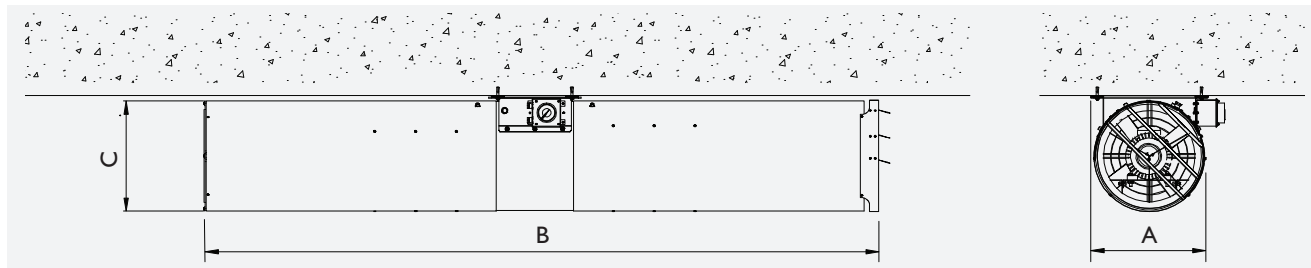
**Truly reversible** - For additional design flexibility, as part of a comprehensive scheme, the control system can direct the airflow in either direction.

**Quality of manufacture** - Jetstream is manufactured under the BS EN 9001 quality standard. Each unit is given a functional test before despatch.

**Variety of finishes** - Jetstream's casing is hot dipped galvanised, whilst its attenuators are pre-galvanised sheet. It has the option of any polyester powder coating to a RAL colour.

**Low noise output** - CIBSE Guide Volume A:1999, Environmental Design, sets out a recommended maximum noise level of NR55 in car parks. Jetstream fans will achieve these required noise levels.

## UNIT DIMENSIONS



|                       | Jetstream 315 | Jetstream 400 |
|-----------------------|---------------|---------------|
| Overall width A (mm)  | 315           | 400           |
| Overall length B (mm) | 1990          | 2880          |
| Overall height C (mm) | 335           | 427           |

## TECHNICAL SPECIFICATION

| Size | Direction | Motor power kW | Nominal current A | Start current A | Speed | Air flow m³/s | Discharge velocity m/s | Thrust N | LpA @ 3m free field dBA |
|------|-----------|----------------|-------------------|-----------------|-------|---------------|------------------------|----------|-------------------------|
| 315J | U         | 0.8            | 1.91              | 11.46           | high  | 0.95          | 16.52                  | 21       | 62                      |
| 315J | R         | 0.8            | 1.91              | 11.46           | high  | 0.96          | 16.73                  | 20       | 64                      |
| 400J | U         | 0.28           | 0.75              | 2.85            | low   | 0.97          | 10.42                  | 12       | 50                      |
| 400J | U         | 1.30           | 2.41              | 14.50           | high  | 1.95          | 20.91                  | 51       | 64                      |
| 400J | R         | 0.28           | 0.75              | 2.85            | low   | 1.02          | 10.87                  | 13       | 57                      |
| 400J | R         | 1.30           | 2.41              | 14.50           | high  | 2.02          | 21.64                  | 52       | 66                      |

J - Non flanged jet fan  
 U - Uni-directional  
 R - Reversible

## SPECIFICATIONS

## DESCRIPTION

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

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.

Comprising an axial fan with inlet and discharge attenuators with outlet diffusers enabling flush fit with the underside of the car park ceiling.

## SIZES

- **Type 315** 315mm diameter fan (non-flanged)
- **Type 400** 400mm diameter fan (non-flanged)
- **U** Unidirectional
- **R** Reversible

## OPTIONS

- Single speed DOL motor suitable for inverter speed control, IP55 protection
  - Two speed tap wound 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 (standard)
- Polyester powder coating to any RAL colour (optional)

## FIRE PERFORMANCE

F300 - continuous operation for one hour at 300°C.

## COMPLIANCE

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