

# 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:

- Three fan sizes, 315mm, 400mm and 415mm diameter, with overall depths of 335mm, 365mm and 427mm respectively
- Spigotted or flanged options
- 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
- A range of attenuator options

#### 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. We can also provide a flanged version.

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

**A wide variety of silencer arrangements are available** – to suit noise criteria.

**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 is hot dipped galvanised, with the option of any polyester powder coating to a RAL colour. A polyester powder light grey coating RAL 7035 is standard.

**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

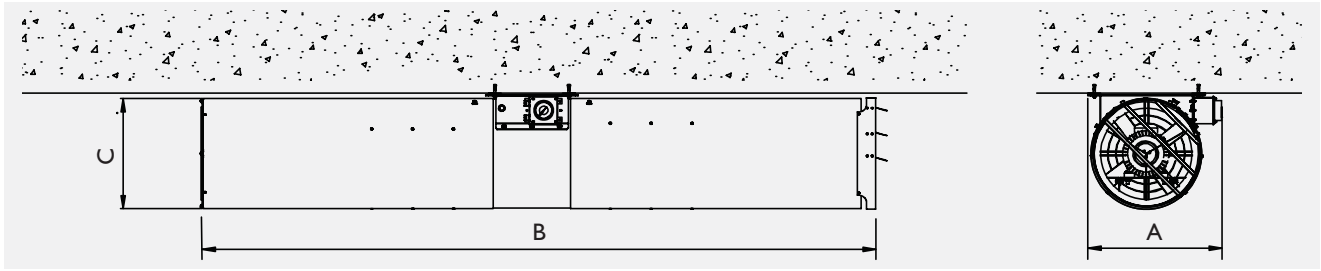
Smoke Control

Service and Maintenance

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UNIT DIMENSIONS



	Jetstream 315	Jetstream 350	Jetstream 415
Overall width A(mm)	387	428	509
Overall length B(mm)	1980	2189	2603
Overall height C(mm)	335	365	427

TECHNICAL SPECIFICATION

Size	Direction	Motor Power kW	Nominal Current A	Start Current A	Air Flow m <sup>3</sup> /s	Speed Low/high	Discharge Velocity m/s	Thrust N	LpA @ 3m free field dBA
315	Uni	0.2	0.6	2.7	0.41	low	6.2	3	48
315	Uni	0.8	1.91	11.46	0.8	high	12.1	12	64
350	Bi	0.25	0.75	2.9	0.53	low	9.9	7	53
350	Bi	1.1	2.41	14.5	1.00	high	19.1	24	72
350	Uni	0.25	0.75	2.9	0.56	low	10.2	7	50
350	Uni	1.1	2.41	14.5	1.11	high	20.1	27	66
415	Bi	0.37	1.25	5.7	0.80	low	10.1	10	59
415	Bi	1.5	3.54	23.1	1.63	high	20.6	42	78
415	Uni	0.37	1.25	5.7	0.89	low	11.2	13	52
415	Uni	1.5	3.54	23.1	1.81	high	22.6	50	68

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)
- **Type 315F** 315mm diameter fan (flanged)
- **Type 355F** 355mm diameter fan (flanged)
- **Type 400F** 400mm diameter fan (flanged)
- **U** Unidirectional
- **R** Reversible

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). Jetstream is fully CE marked.