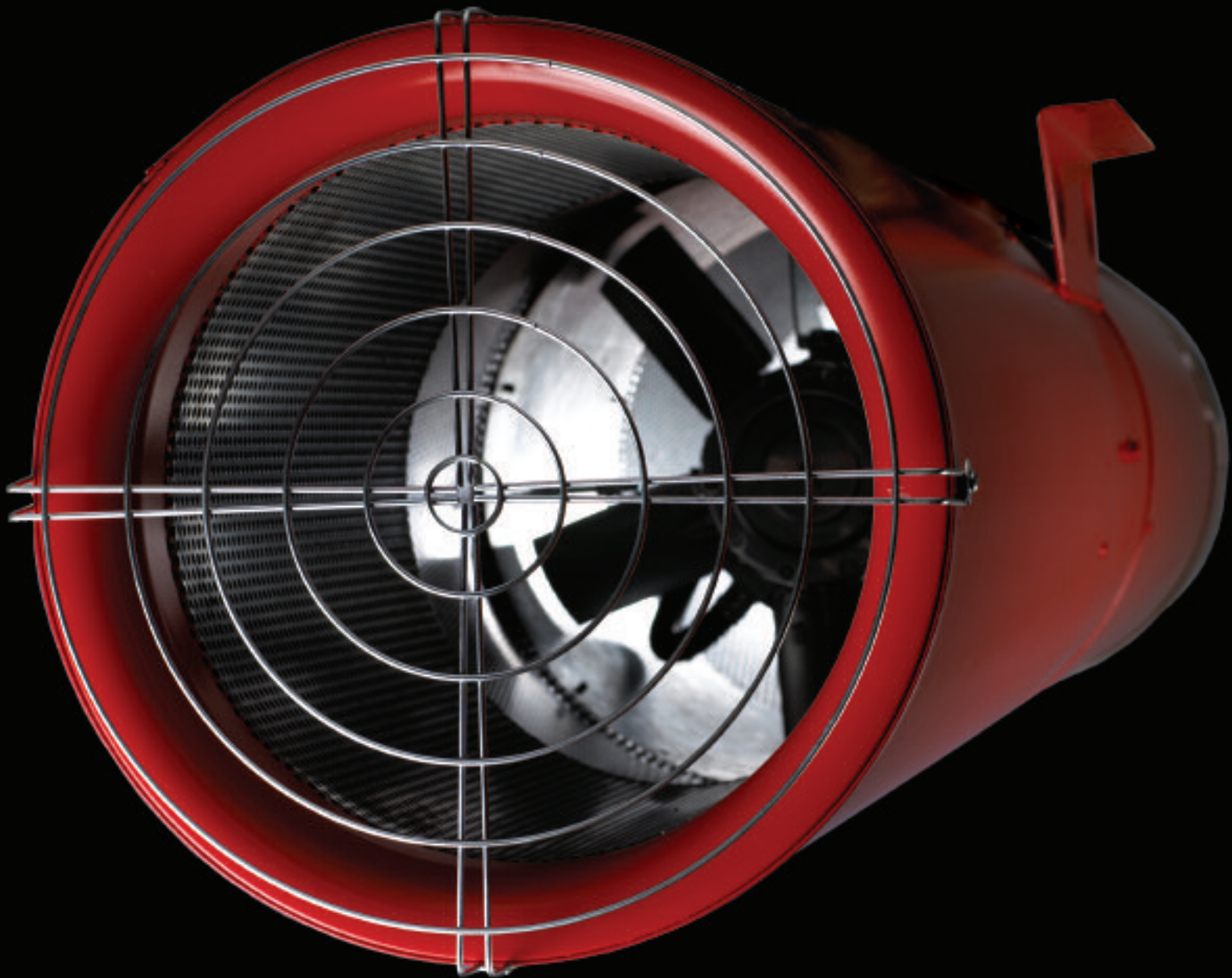


JETVENT





A clever combination of excellent performance and safety by design

Its Principal

Ventilation in applications such as fully enclosed car parks, vehicle bays and metro stations provide an exchange process of air, by bringing fresh air in, thoroughly mixing the air, then extracting harmful pollutants, namely carbon monoxide, nitrus oxides, fumes from vehicle fluids, oil and other fuels.

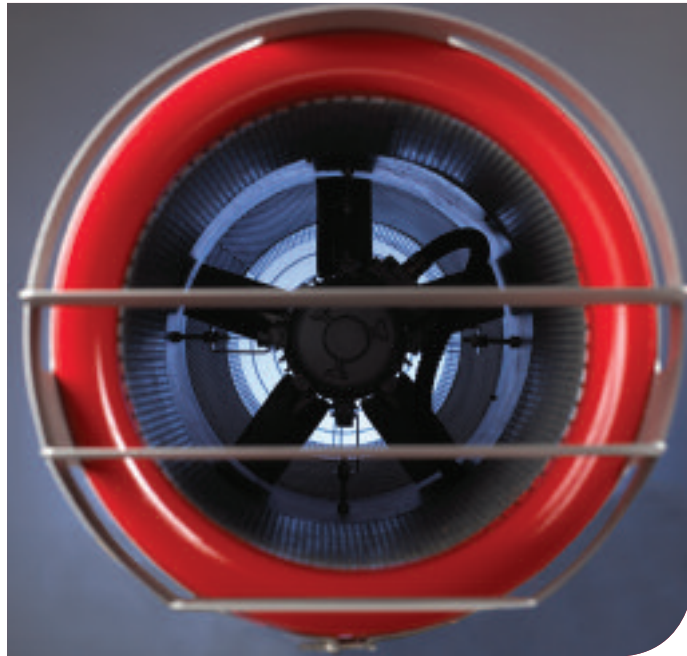
Of equal importance is the need for ventilation in the event of a fire itself, safeguarding lives by providing smoke clearance for occupants to escape, and enabling access for fire fighters to control fire risk.

For us, the challenge is always to bring product beyond market expectations. That is why Elta measure our work not only in terms of technical performance, but also in fulfilling customer specific needs. It is this fine balance between unrivalled technology and customer application that the best of our solutions are to be found.

JETVENT is no exception to this rule, all designed around safeguarding occupants, while removing pollutants with the simplest of functionality.

With two sizes, 315mm and 400mm diameter and 11 model variants, **JETVENT** satisfies the majority of customer requirements.

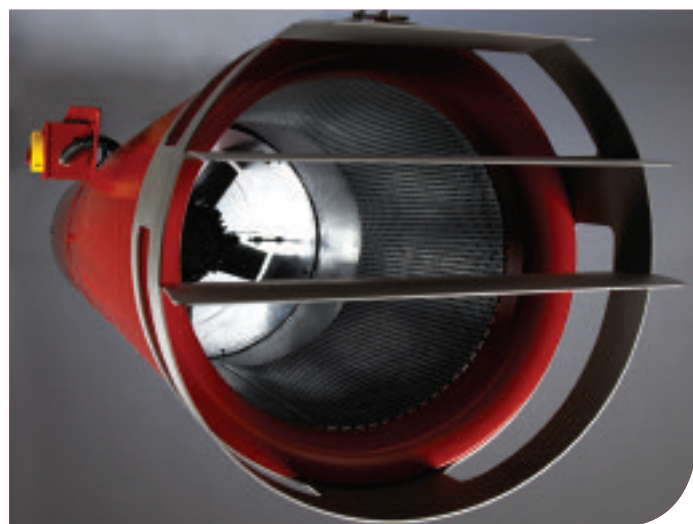
Using the principal of providing impetus to the airflow, **JETVENT** thrusts air in the direction of designated extract positions, thereby ensuring smoke and other harmful pollutants do not gather and accumulate in dead areas by constant flow and air movement. A sequence of fans, mounted directly beneath the ceiling, enables air from the inlet opening, to the extract fans, to remove smoke and fumes efficiently.



Elta can pinpoint, analyse and make design changes and improvements without the expense of conventional prototyping.

By using market leading solid modelling packages, Elta ensures the model will drive both profiling and forming tools, without the need for traditional Two-dimensional drawings. In this way, product quality, through better tolerances, presents Elta and its customers alike with strong visual imagery to develop practical and aesthetic decisions.

By matching our research, development and technical capabilities with market requirements, Elta's collaboration with its customers provides the optimal product development solutions.



Features & Benefits

Range

JETVENT has two sizes, 315mm and 400mm diameter and 11 model variants, **JETVENT** satisfying the majority of customer requirements. By providing Uni-Directional or Truly reversible airflow, **JETVENT** offers flexibility to specific customer requirements.

No Ductwork Requirement

By adding momentum to the air, **JETVENT** thrusts air towards desired extract points to ensure stagnant fumes and smoke do not settle. This principal eliminates the requirement for ductwork and ancilliary equipment within applications, as the **JETVENT** effectively transfers the polluted air. By eliminating ductwork from an enclosed car park, system resistance is greatly reduced, which means lower pressure drops required by the extract fans, lower power consumption and running cost savings.



Lower Maintenance

With no ductwork system this results in lower maintenance and installation costs, as there is no ducting for fire to travel through, become blocked, damaged or subject to leakage.

Improved Sound Characteristics

Without the requirement for ducting, Elta Fans are more efficient, operating at slower running speeds, which reduce noise levels.

Optimal Use of Space

Potential space saving available by increasing head room area, and a safer, lighter environment without the need for ductwork

Better Car Park Security

JETVENT provides added security improvements, whereby no ducting ensures there is a lack of CCTV obstruction.

Rigorous Testing

As you would expect with an Elta Fans products, is independently tested to meet the exacting standards of EN 12101 – 03:2002 providing a quality product that operates in fire/smoke conditions.

Robust Design

Hot dipped Galvanised finish with a 4mm thick fan casing provide a robust construction, resistant to potential corrosion. The prevention of debris entering the fan causing potential damage is facilitated by the zinc plated guard, which is detachable for ease of maintenance. Within the unit, high quality galvanised sheet perforations enhance corrosion resistance.

Stainless steel construction of the Deflector enables air to be guided, whilst combating corrosion at the same time. Since they are detachable, it also provides ease of maintenance and replacement if damaged.

Impellers

Adjustable pitch aerofoil section impellers provide a long lasting robust construction for ambient and high temperature applications.

Protection

A minimum protection to IP65 on fan electrics enables fan maintenance and ease of cleaning by means of pressure washing components.

An external pad lockable Isolator switch to IP56 standard is mounted to the outside of the casing.



Streamline Appearance

With no flanging required for silencer fixing, this provides a streamline design for Inlet and Outlet podded Silencers, aesthetically pleasing, easy to clean and improved air performance. The integral BellMouth Inlet has a streamlined appearance for improved performance and sound.

Warranty

Each **JETVENT** comes complete with a 12 month warranty.



Market Applications

Elta Fans has a wealth of experience and knowledge, dedicated to understanding your particular needs. Whether your criteria is optimising space, specific performance characteristics, low noise level or a high specification finish, the JetVent range continues to enhance Elta's reputation in the design and supply of specialist ventilation products.

Operating in typical applications such as fully enclosed or open sided car parks to assist in general ventilation and smoke extract, to Distribution warehouses, Vehicle Bays and Metro Stations, JetVent ensures the optimal solution to the application.



Specification

General

The **JETVENT** car park extract range shall comprise 315mm and 400mm diameter sizes, Uni-directional or Truly Reversible airflow, two speed or single speed motors with ambient or high temperature smoke conditions to European Standard EN12101-03:2002

Fan Casings

The fan casing and integral mounting feet for mounting the unit to the car park ceiling shall provide a long lasting robust construction. All parts shall be manufactured from 4 mm heavy gauge mild sheet steel, roll formed and welded, then hot dipped galvanised to BS 729 after fabrication.

Impeller Assemblies

Adjustable pitch aerofoil impellers shall be provided with blades made from high quality pressure die cast aluminium (LMG) or GRP both natural finish. Impellers shall be factory set at an angle to provide specific performance of thrust and volume flow rate. Hubs shall be made from die cast aluminium alloy (LM24). High temperature impellers will have their blades positively locked for pinning, for added security, for operation in smoke mode.

Assembled impellers are to be dynamically balanced to Grade 6.3.

Motors

Motors are to be totally enclosed air stream cooled metric frame to IP55 standard.

They are suitable for Class F or Class H insulation for normal continuous duty or smoke conditions once only at 300°C for 2 hours.

Motors shall be either Single speed or Two Speed. Two Speed motors have a Dahlander winding with direct starting on both speeds.

Motors shall have flying leads connected to an external padlockable Isolator switch to IP65 Standard.

Silencers

As Inlet and Outlet silencer shall be mounted either side of the fan housing, with integral bellmouth to provide reduced sound level and optimal performance. Silencers are constructed from 1.5mm pre-galvanised perforated sheet steel, lapped and riveted, containing a pre-galvanised perforated sheet. Silencers shall sleeve onto the fan casing where they are secured, to provide a low profile. The Inlet silencer has a zinc-plated guard to attached to it, whilst the outlet silencer shall have an 304 stainless steel deflector, to guide air in the required direction.

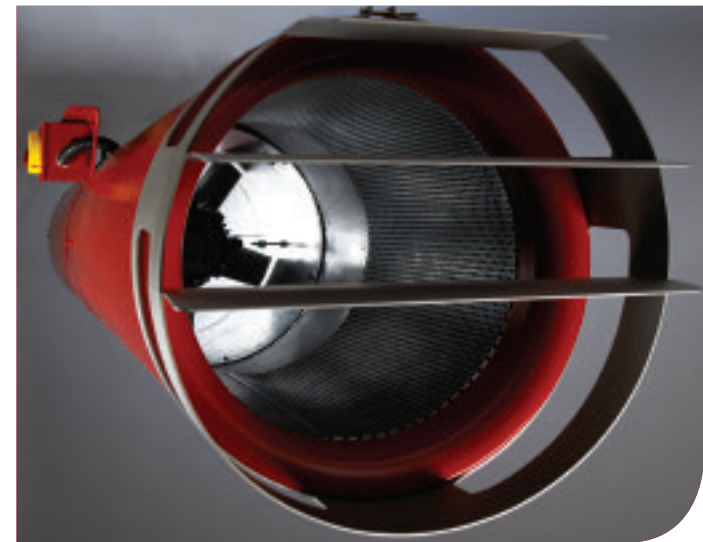
Finishing

All **JETVENT** units shall be hot dipped galvanised as standard finish. Units can be powder coated in any standard RAL colour as required. (at a cost)

Quality Management

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001: 2000. EEC Directives shall be met.

All **JETVENT** units are tested at elevated temperatures in accordance with the requirements of the European standard EN12101 - 03:2002.



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Performance Motor & Electrical Data 315mm & 400mm Diameter Models



Dimensional Data

JetVent - Uni Directional Ambient Temperature Up to +40°C

Performance	Product Model	Thrust (Newtons)	Volume Flow Rate (m³/sec)	Air Density (Kg/m³)
	JVU-CPA-315 2/4-3	20/5 †	0.94/0.47	1.2
	JVU-CPA-400 2-3	50	1.8	1.2

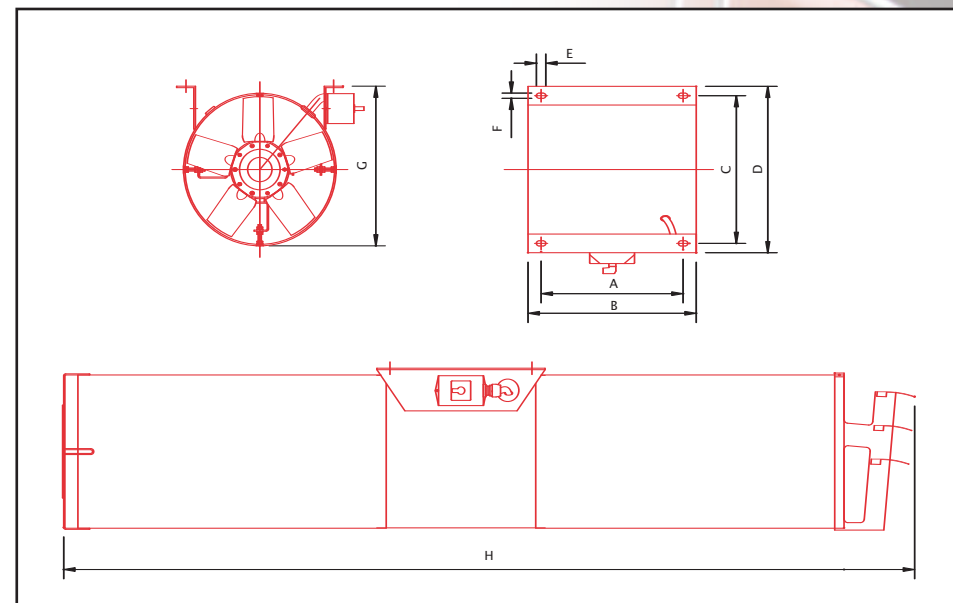
Motor & Electrical	Product Model	Speed (Rpm)	Motor Power (Dahlander Winding) Kw	FLC (Amps)	SLC (Amps)
	JVU-CPA-315 2/4-3	2880/1440	0.55/0.11	1.42/0.36	7.1/1.4
	JVU-CPA-400 2-3	2880	1.3	2.77	13.9

JetVent - Uni Directional High Temperature 300°C for 1Hour

Performance	Product Model	Thrust (Newtons)	Volume Flow Rate (m³/sec)	Air Density (Kg/m³)
	JVSU-CPA-315 2/4-3	20/5 †	0.94/0.47	1.2
	JVSU-CPA-400 2/4-3	50/15 †	1.8/0.9	1.2
JVSU-CPA-400 2-3	50	1.8	1.2	

Motor & Electrical	Product Model	Speed (Rpm)	Motor Power (Dahlander Winding) Kw	FLC (Amps)	SLC (Amps)
	JVSU-CPA-315 2/4-3	2880/1440 *	0.75/0.17	2.1/0.63	14.6/2.7
	JVSU-CPA-400 2/4-3	2880/1440 *	1.3/0.28	2.84/0.81	15.1/2.84
JVSU-CPA-400 2-3	2880	1.3	2.77	13.9	

JetVent - Uni Directional



Product Model	A	B	C	D	E	F	G	H	Weight (Kg)
JVU-CPA-315	380	450	350	400	25	14	335.5	2123 (Max)	65
JVU-CPA-400	400	450	395	445	25	14	427	2493 (Max)	75

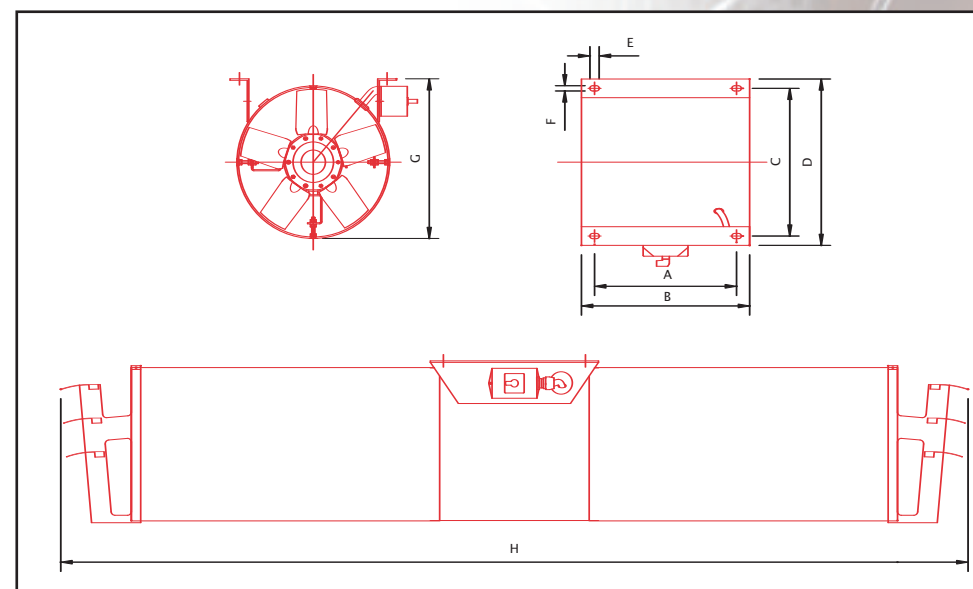
All dimensions are in mm

JetVent - Truly Reversible Ambient Temperature Up to +40°C

Performance	Product Model	Thrust (Newtons)	Volume Flow Rate (m³/sec)	Air Density (Kg/m³)
	JVR-CPA-315 2/4-3	20/5 †	0.94/0.47	1.2
	JVR-CPA-400 2-3	50	1.8	1.2

Motor & Electrical	Product Model	Speed (Rpm)	Motor Power (Dahlander Winding) Kw	FLC (Amps)	SLC (Amps)
	JVR-CPA-315 2/4-3	2880/1440 *	0.55/0.11	1.42/0.36	7.1/1.4
	JVR-CPA-400 2-3	2880	1.3	2.77	13.9

JetVent - Truly Reversible



Product Model	A	B	C	D	E	F	G	H	Weight (Kg)
JVR-CPA-315	380	450	350	400	25	14	335.5	2050 (Max)	65
JVR-CPA-400	380	450	395	445	25	14	427	2640 (Max)	75

All dimensions are in mm

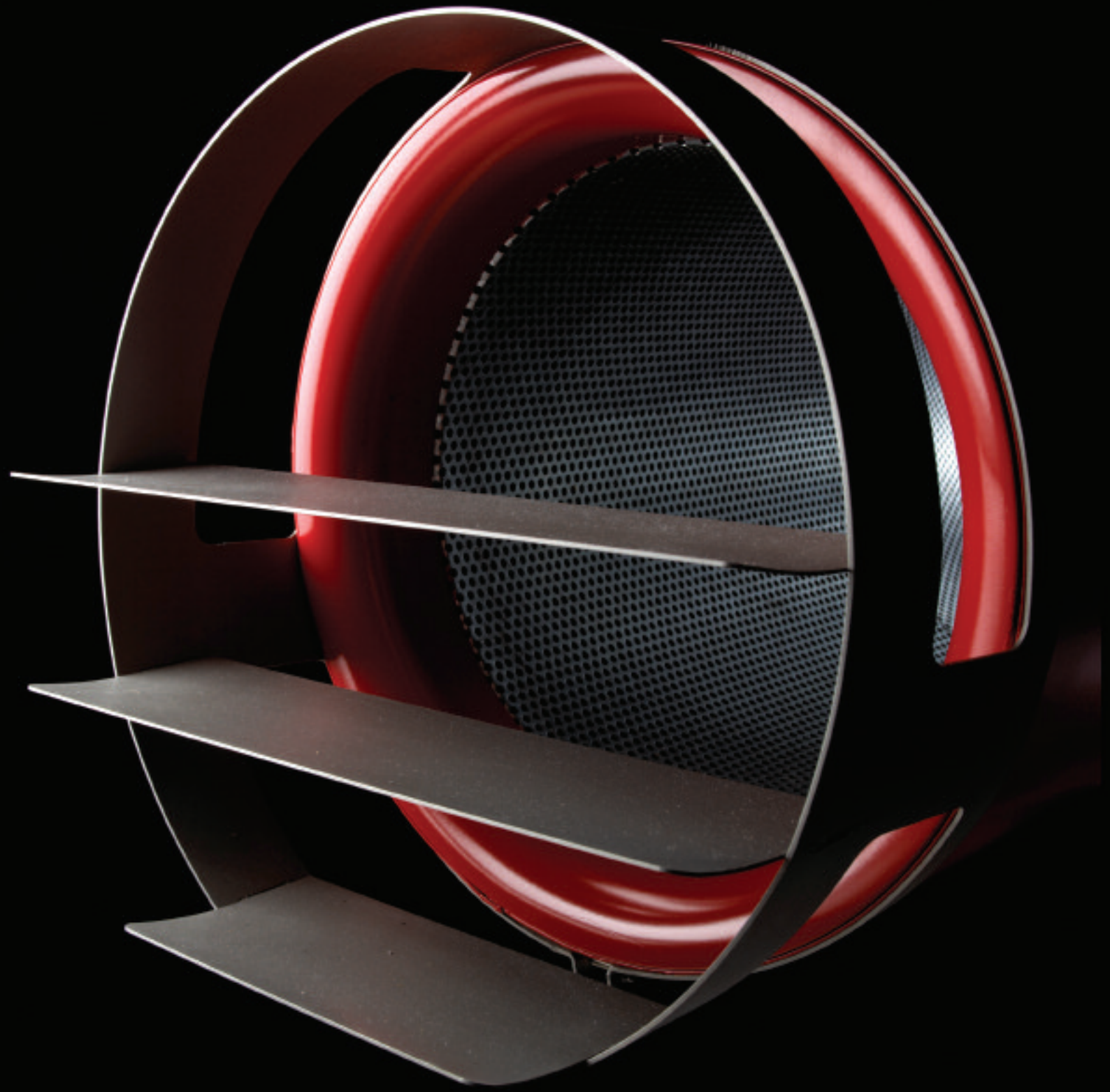
JetVent - Truly Reversible High Temperature 300°C for 1Hour

Performance	Product Model	Thrust (Newtons)	Volume Flow Rate (m³/sec)	Air Density (Kg/m³)
	JVSR-CPA-315 2/4-3	20/5 †	0.94/0.47	1.2
	JVSR-CPA-400 2/4-3	50/15 †	1.8/0.9	1.2
JVSR-CPA-400 2-3	50	2	1.2	

Motor & Electrical	Product Model	Speed (Rpm)	Motor Power (Dahlander Winding) Kw	FLC (Amps)	SLC (Amps)
	JVSR-CPA-315 2/4-3	2880/1440 *	0.75/0.17	2.12/0.63	14.6/2.7
	JVSR-CPA-400 2/4-3	2880/1440 *	1.3/0.28	2.84/0.81	15.1/2.84
JVSR-CPA-400 2-3	2880	1.3	2.77	13.9	

† Denotes JetVent Two Speed Models
All Electrical Data stated at 400v/3PH/50Hz

* Denotes Two Speed Tap Wound Motor
All Starting Currents are Quoted as Direct On-Line



JETVENT



Applied Technology

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