



Redbacks Engineering is situated at Caboolture, north of Brisbane, Queensland with direct access to the M1 major arterial. Redbacks services South East Queensland including but not limited to Sunshine Coast, Kilcoy and further north, Brisbane and south to the Gold Coast and Northern NSW.

Redbacks have been established for over 45 years (established in 1973) originally servicing the farming sector. The business has expanded to servicing the trucking, mining, dredging, saw milling and structural sectors including servicing local government and schools. Redbacks have won numerous business and community awards in recent times.

The Redbacks team have an extensive skill base covering a diverse range of Engineering and Fabrication services. Redbacks capabilities range from engineering, design and detailing through to the fabrication stage and erection stage if required.

In 2016 the present owners purchased the business and have increased the production capacity and capability through capital investment into plant and increasing hard stand size for larger scale projects. Through constant recruitment and training of staff and continual improvement, the business is capable of supplying quality products and service specifically suited to the Clients' needs. Redbacks Engineering capabilities are as diverse as they are highly skilled through significant structural projects to simple refurbishment of equipment for many industries.

Redbacks Engineering has partnered with Universal Fans and Resonant Environmental Technologies to bring further capabilities and product to the market.

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Universal Fans manufactures and supplies specialised and customised fans for all industrial plant requirements. Universal Fans (formerly 'Universal Airbrand') was founded in 1965 and is an internationally recognised company focusing on the design, manufacturing, installation and maintenance of standard and customised pre-engineered fans and related accessories. Based in Johannesburg, South Africa, Universal Fans is a 100% South African company manufacturing fans, which conform to local and international legislation, manufacturing and performance standards.

Universal Fans supplies industrial fans to projects around the globe and has been active in countries such as, Philippines, China, Africa, Australia, Canada, Columbia, Peru and Chile.

Universal Fans is well known for solving specialised fan problems and has manufactured special fans for demanding and high temperature plant environments. To date in excess of 50 000 fans have been supplied to all types of heavy industries.

**UNIVERSAL FANS** | Tel: +27 (11) 680 6441 | [www.universalfans.co.za](http://www.universalfans.co.za)  
26 Industry Road, Clayville Industrial, Olifantsfontein, 1666, South Africa | [sales@universalfans.co.za](mailto:sales@universalfans.co.za)



The Resonant Group is a multi-disciplinary engineering business active in the metals, minerals, chemicals, oil & gas and infrastructure sectors. We provide engineering, consulting and project management services, executing projects on a reimbursable, EPCM, EPC or LSTK basis.

We add value to our clients by contributing world class skills, proprietary technology and equipment to their existing plants or new projects. Our roots are South African, but we are active in North America, South America, the Middle East, Europe, Russia, Australia and Asia. Never satisfied with business as usual, Resonant invests aggressively in new technologies to ensure we can contribute to our client's sustainability in the long term.

Resonant supply a wide range of gas cleaning & cooling equipment to enable our customers to comply with the latest environmental legislative requirements. These include off the shelf bag filters for simple dust control applications to custom designed bag filters and scrubbers for specialised process applications.

**RESONANT ENVIRONMENTAL TECHNOLOGIES**  
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Supplier of specialised Boiler Back-end Gas Cleaning equipment for the Sugar Industry



## Venturi Wet Scrubber

High-efficiency Wet Scrubber



### Features:

- High efficiency particulate collector
- Used on Coal & Bagasse fired boilers
- Manufactured in sections for road transport

### Benefits:

- High Efficiency Scrubber for Coal Fired or Dual Fired Boilers



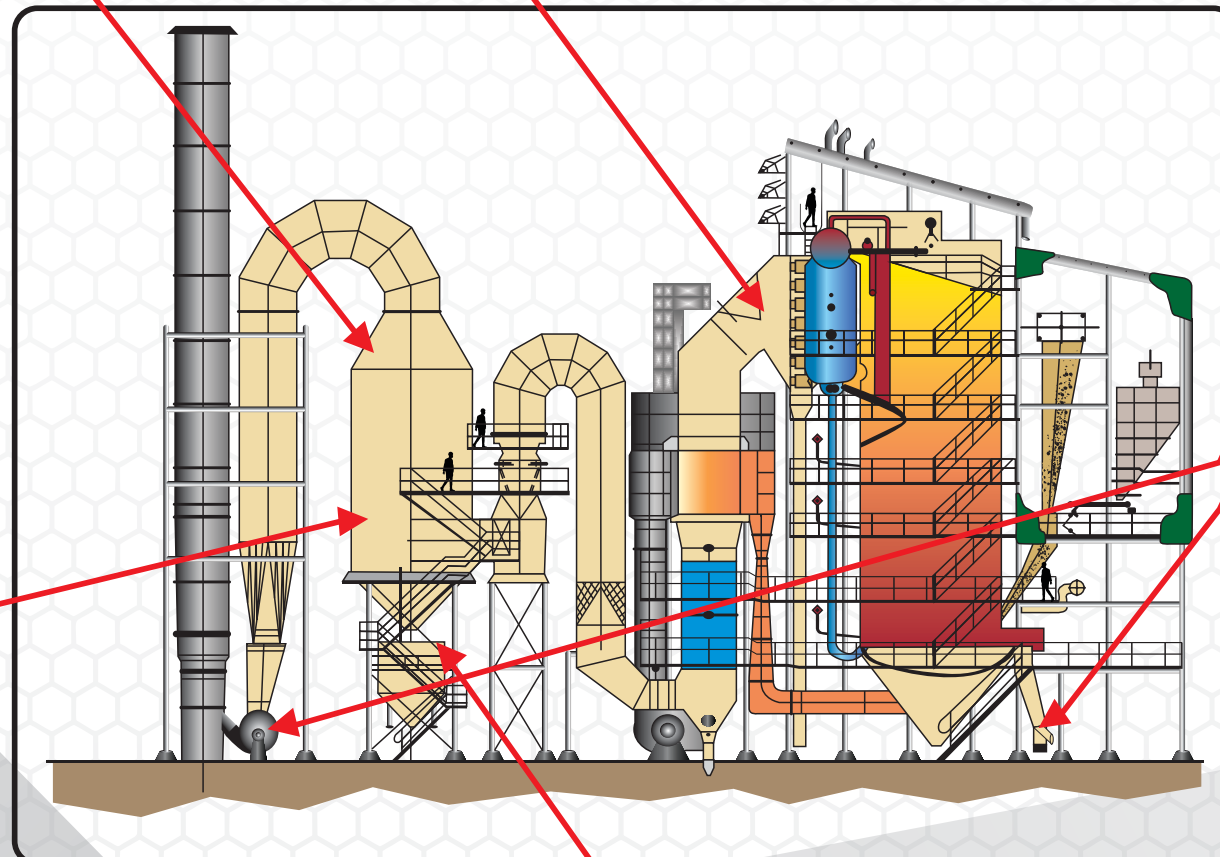
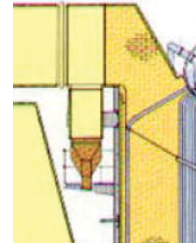
## Multicyclone

### Features:

- Fits into existing boiler outlet ducting
- Materials of construction available for higher gas temperatures

### Benefits:

- Modular design pre-collector to protect the economizer and air heater
- Low pressure drop



## Universal Fans

Industrial Fan Supplier

### Features:

- Manufactures and supplies specialised and customised fans for all industrial plant requirements
- To date in excess of 50 000 fans have been supplied to all types of heavy industries

### Benefits:

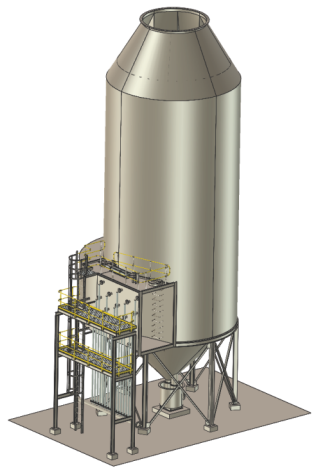
- Experience in the supply of fans to the sugar industry
- Apply protection coating on the fans for erosion/corrosion
- Inhouse damper designs for inlet vane control and outlet louvre dampers. (Manual or Automated)

### Types of Sugar Fan Designs Available:

- ID Fan – Forward curved heavy duty self Cleaning Fan
- Primary Air Fan – Low pressure, high efficiency, non-overloading backward curved fan
- Distribution Air Fan – Low flow, high pressure high efficiency backward curved fan
- Over Fire Air Fan – Low pressure, medium flow high efficiency backward curved fan
- Secondary Air Fan – Backward curved high efficiency fan

## Cyclonic Wet Scrubber

Medium-efficiency Wet Scrubber

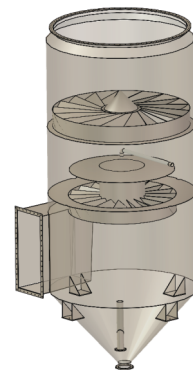


### Features:

- High efficiency on Bagasse fired boilers
- Adjustable blade damper control

### Benefits:

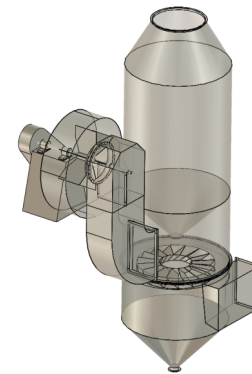
- High Efficiency Scrubber for Bagasse Fired Boilers
- Use less water than a Venturi Scrubber



Dual Vane Scrubber

## Alternate Scrubbers

Small Boilers



Dynamic Scrubber

