

Capability Statement



A DIVISION OF THE ENVIRONMENTAL GROUP



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**DUST & FUME
CONTROL**



**AFTERCARE
SERVICING**



**ENGINEERED
SOLUTIONS**



**WASTE REDUCTION
& WASTE 2 ENERGY**

**Growing from strength to
strength since 2002**

SETTING THE INDUSTRY STANDARD

Airtight Solutions is one of the largest specialist air pollution control companies operating in Australia. We have extensive experience with a verifiable track record of successful applications. This strong reputation is built upon decades of supplying well-engineered systems.

From Monday, 1 May 2023 – Airtight is proud to advise that we have become part of the EGL group (The Environmental Group Limited).

In operational terms Airtight Solutions will remain focussed on the same company objectives with the additional resources that an organisation like EGL can provide.



THE AIRTIGHT DIFFERENCE

What sets Airtight apart is that we can use the experience and know-how of our engineering division, and the broader group, to deliver quality designs and solutions customised to the clients' needs, all at an unrivalled cost to value point.

OUR BRAND

Airtight is synonymous with quality design, application and a strong value proposition. Our company culture is one of integrity and respect for these values and principles and we take pride in continuously providing the best performing solutions in the industry.

Stig Brixen

Values You Can Rely On

Proud supporters of
Men's Sheds Australia

PARTNERSHIPS BUILT TO LAST

MISSION STATEMENT

Delivering clean work environments through effective, reliable solutions that:

“**Production** seeks for optimal performance, **Resellers** recommend to their clients, **Workers** request for their work environments, and **Business Owners** enjoy for outstanding value and long-term returns.”

VISION

To develop and become the ‘new industry standard’ for effective, well-engineered air pollution control solutions; trusted by manufacturers to ensure continuous, reliable performance, and by workers to set the standard for clean & healthy working environments.

OUR VALUES

Professional handling of dust & fume control problems and responsibly providing effective solutions, on time and within budget.

Safety: Safety and health are what matter most.

Integrity: We act with honesty and a duty of care to provide the best solution possible.

People: The people we have are the strength of our business.

Leadership: We take ownership and lead by example at all levels.

Teamwork: We work together and support each other to achieve success.

Client Relationships: We have trusting relationships with our clients.

Community & Charity: We show respect for the community, the environment and give back wherever possible.



“We create high performing teams that are aligned to our vision and values.”

DUST & FUME CONTROL



DUST & FUME COLLECTORS

- ✓ Full range of baghouses
- ✓ In-house manufacturing
Australian Made



MODULAR DUCT

- ✓ Off the shelf and bespoke
- ✓ Quick Fit System – best quality & quickest installation on the market



FLEXIBLE HOSE

- ✓ Best quality on the market
- ✓ Fully stocked warehouses in NSW, QLD & VIC



INDUSTRIAL FANS

- ✓ Stock & bespoke
- ✓ All industry applications

Airtight ✓
SOLUTIONS

A DIVISION OF THE ENVIRONMENTAL GROUP

YOUR DUST & FUME EXTRACTION EXPERTS

Airtight's dust and fume control division specialises in designing, installing and maintaining air pollution control equipment across a broad range of applications and industries. We ensure the safe removal of dust, mist, fumes and other harmful particles (contaminants), to provide a clean safe working environment for your team.

High-quality products built to perform and provide peace of mind throughout the life of the product.

CONFIGURED SOLUTIONS

We deliver a high degree of customisation for our clients using readily available off-the-shelf technology. This ensures high-performance solutions that can be delivered quickly and cost-effectively.



COMBUSTIBLE DUST EXPERTS

Filter Type										
	T-SERIES	NFS HJ-SERIES	NFK HJ-SERIES	FMK	FMC	CDS	APM-P	APM-B	CYCLONE	PJS40
Type of Industry	Wood, Paper, Seed, Grain	Wood, Paper	Wood, Paper	Metal Dust, Minerals, Chemicals, Welding Fumes	Chemicals, Minerals, Metal Dust, Welding Fumes	Wood, Chemicals, Minerals, Metal Dust	Blasting, Fine Dust, Minerals, Polishing, Sanding	Blasting, Fine Dust, Minerals, Polishing, Sanding	Timber, Minerals, Bulky Materials	Powder, Dust, Granulate

DUST & FUME CONTROL

PRODUCT RANGE

- ✓ Dust filtration
- ✓ Fume extraction
- ✓ Baghouses
- ✓ Wet and dry ESP's
- ✓ Wet scrubbers
- ✓ Gas scrubbers
- ✓ Heat plants
- ✓ Fuel bins
- ✓ Material handling
- ✓ Fans
- ✓ Modular ducting
- ✓ Flexible hose
- ✓ Rotary valves
- ✓ Diverter valves
- ✓ Convey systems
- ✓ Silos

**Australia's
Largest Stockist**

SOLUTIONS YOU CAN TRUST

A good quality dust collector is an essential investment for your business, which is why it is imperative to choose the right solution the first time around.

Airtight has a full range of effective, reliable and modular dust control systems. As we are not tied to one particular brand, our solutions are designed based solely on your requirements. Genuine advice by qualified engineers who have successfully delivered thousands of systems for more than 20 years.

- ✓ Experience & Know-How
- ✓ Proven Reliability
- ✓ Optimised Efficiency
- ✓ Engineered Solutions



DUST & FUME COLLECTOR TECHNOLOGY

- ✓ T-Type Series Static Filters
- ✓ NFS HJ-Series Reverse Airflow Filters
- ✓ APM-Series Pulse Jet Collectors
- ✓ Cyclone Dust Collectors
- ✓ Fume Arms & Extraction Walls



AFTERCARE SERVICING

"The most costly breakdown started with a minor issue that went undetected."

- ✓ Preventative Maintenance
- ✓ Site Inspections
- ✓ Consulting & Diagnostics
- ✓ Smart Automation
- ✓ Remote 24/7 System Monitoring
- ✓ Fault Monitoring & Reporting



CARE YOU CAN TRUST

Airtight has a national service department dedicated to providing service, preventative maintenance and spare parts to our and other brands. We stock common spare parts locally and our response time is the best in the industry.

- ✓ **Local Service** – Offices, spare parts and technical staff available from all our offices (Sydney, Brisbane & Melbourne)
- ✓ **Expert Technicians** – Our team is suitably qualified and undertake service and maintenance on your plant as/if required.
- ✓ **Extended Warranty** – We include an 18-month preventative service package in our offer for peace of mind.
- ✓ **Smart Technology** – We are leading the industry integrating technology for system automation and remote fault monitoring.



WASTE MANAGEMENT SOLUTIONS



WASTE TO ENERGY (W2E)

Partner with Airtight and turn your waste into heat energy or power with our W2E solutions utilising our waste boiler/incineration plants and Rankine Turbine technology.



POWER PLANTS

WASTE REDUCTION TECHNOLOGY

Airtight offers an extensive range of waste volume reduction technologies including shredders, briquetters, heat plants and storage silos. This can create huge savings in waste disposal costs using our proven technology.



EZ SHREDDERS

AP BRIQUETTE PRESS



SILOS

25%
ROI



HEAT PLANTS

ENGINEERED SOLUTIONS



- ✓ Specialised applications
- ✓ In-house process & mechatronic engineers
- ✓ CAD/Fluid design capacity
- ✓ Expert project management

BE PART OF SOMETHING BIGGER

Airtight is an integral part of the Airtight Engineering Group and draws upon the individual strengths of our associated companies when providing an effective solution for your specific pollution control project requirements.

Airtight has the engineering resources required to successfully deliver specialised solution designs for a wide range of industry applications.

We deliver high-quality products built to perform and provide peace of mind throughout the life of your system.

NO PROJECT TOO BIG.

ENGINEERED SOLUTIONS



INDUSTRY APPLICATIONS

DRY

- ✓ Boiler emission control
- ✓ Fibreglass manufacture
- ✓ Phosphor plants
- ✓ Sulphate plants
- ✓ Cement plants
- ✓ Limekilns
- ✓ Milling
- ✓ Fly ash
- ✓ Mining
- ✓ Alumina kilns
- ✓ Cement kilns
- ✓ Boilers
- ✓ Dryers

WET

- ✓ Coke ovens
- ✓ Wood fibre dryers
- ✓ Cloth dryers

RELATED PRODUCTS

- ✓ Reverse Pulse Technology
- ✓ Baghouses
- ✓ Multi-Cyclones
- ✓ Wet Scrubbers
- ✓ Electrostatic Precipitators
- ✓ Conveyers
- ✓ Specialised Filtration

"We draw on the individual strengths of our associated companies as required for each project.

This allows you to benefit from dealing with one company, for all your requirements, and ensure the best solution is provided."



Why Choose Airtight?

- ✓ Deeply specialised
- ✓ Premium-quality design & products
- ✓ Engineered solution design for your specific application
- ✓ Unmatchable lifetime value – Lowest cost of ownership in the market
- ✓ Certified products that meet all Australian Standards
- ✓ One-Stop-Shop – the largest stockist in APAC of dust and air pollution control products and waste reduction technologies.
- ✓ Fast Delivery – we offer one of the fastest turnaround times in the industry

INDUSTRIES WE SERVICE

Automotive/Vehicle Exhaust, Wood, Processing, Metal & Polishing, Food & Pharma, Cement, Paper & Printing, Blasting, Recycling & Waste Recovery, Painting & many more...

MAJOR CLIENTS

Airtight Solutions is the preferred supplier for APAC's leading industrial manufacturers & government institutions and is a founding member of EPCEMA, the industry association for air pollution control. Our expertise is highly esteemed and is regularly called upon as an industry expert in legal cases.



GROUP ASSOCIATIONS



A Partner You Can Trust

EXPERIENCE & SKILL | PROVEN SYSTEMS | RELIABLE SOLUTIONS

CLIENT TESTIMONIALS

“

This is the 3rd Dust Collector system Lang's have bought from Airtight Solutions. We love their after sales service and great quality equipment.

Mat Meygon | Langs Building Supplies

”

“

When I upgraded my underperforming cartridge dust collector, Airtight Solutions came highly recommended. My expectations were naturally high, but the system is everything they said it would be, and the performance difference is unbelievable!

Matthew Kitchen | Director, Capital Design Works

”

“

UWE Hay worked with Airtight Solutions at our export facility for the installation of a fully integrated dust extraction system. The staff and leadership at the business were of the highest calibre and the professional approach was felt from the initial phone interaction to the onsite visit, to the cost-effective quote of their fully customised solution and installation of the system.

Steven Foote | General Manager, UWE Hay

”

COMMITMENT TO QUALITY

Airtight Solutions has a comprehensive internal Quality Assurance System that is continually upgraded. Guidelines, set work procedures, and testing for operational requirements is monitored recorded and assessed on all work job commitments before leaving our warehouses. Our staff and installers are trained to identify areas where improvement can be achieved, and we provide an environment where this is encouraged.



**YOU CAN BE CONFIDENT IN
OUR COMMITMENT TO QUALITY**

Client: Claytons Kitchens

Scope Of Work: NFK RAF 21 & Heat Plant

Industry: Kitchen Manufacturer

PROJECT DETAIL

CLAYTONS KITCHENS

Airtight delivered a wood-waste heat plant system that has been reliably used and a proven performer for 20 years. The system included the heat plant, grit arrestor, small fuel surge bin, control panel, hot water pump, heat dump and a fuel transfer conveyor to deliver the dust from the collector to the surge bin.

The hot water produced in the heat plant is in the 80-95°C range and is available for processing use and space heating. It is possible to also use this heat to produce energy by installing Airtight's Rankine turbine technology.



Client: Spence Doors

Scope Of Work: NFK8+3 RAF Filtration System

Industry: Commercial Door & Frame Manufacturing

PROJECT DETAIL

SPENCE DOORS

Spence Doors produces a full range of commercial doors & frames throughout Australia and approached Airtight to audit their existing system which was underperforming and not fit for purpose.

After a thorough analysis of their system, Airtight proposed, and installed, an NFK8+3 Reverse Airflow (RAF) filtration system that is performing effectively, with a 35% increase in capacity, and operating substantially more efficiently. The ROI on electricity saving alone was enough to pay for the upgrade after two years. Airtight was able to significantly increase extraction performance while reducing power and servicing costs. A great result.



Client: NEM Group

Scope Of Work: APMP-128 Pulse Jet Collector

Industry: Abrasive Blasting

PROJECT DETAIL NEM GROUP

NEM Group is a steel fabrication company that specialises in welding and laser cutting throughout Australia. A key process involves a grit blasting shed, which required airborne dust to be removed from their factory and filtered to remove dangerous contaminants before being expelled to the atmosphere. This was vital to improve air quality within the factory, ensure the health and safety of staff, and meet EPA requirements.

Our APMP-128 Pulse Jet Dust Collector System was perfectly suited to extract, filter and collect all grit blasting dust into a single system ensuring a central discharge point, high-efficiency cleaning and controlled operation.



Client: NSW Fire & Rescue

Scope Of Work: APA264 Pulse Jet System

Industry: Glass Recovery

PROJECT DETAIL NSW FIRE & RESCUE

The Fire and Rescue NSW Emergency Services Academy is a modern training facility with a state-of-the-art practical learning environment designed to ensure our first responders have the best knowledge and skills to help you in any emergency.

Practical training across a wide range of areas including fire rescue and hazardous material management. Airtight solutions provided a dust & fume extraction system to extract airborne particulate produced during practical learning training consisting of an urban search and rescue scene with an underground train tunnel, a service station prop, a five-story tower with various fire and rescue scenarios as well as a live-fire facility.

Client: TAE Aerospace

Scope Of Work: Fume Extraction Scrubber - Chemical Baths

Industry: Aerospace

PROJECT DETAIL

TAE AEROSPACE

TAE aerospace in Queensland have built a brand new state of the art engine maintenance facility for aeroplane engines. As part of the process, when doing maintenance on aeroplane engines, the different components are dyed, x-rayed and cleaned with a variety of different solutions. These solutions are often highly caustic or acidic in nature and react with the components. This reaction off gas needs to be controlled. Airtight Solutions designed and install a scrubber system onto the tanks to meet local EPA requirements. This scrubber system is a packed bed wet scrubber that uses water spray, high surface area tellerettes and a mist eliminator that knocks all the chemicals down into the sump to be later treated at the wastewater treatment facility.



Client: NSW Fire & Rescue

Scope Of Work: APA264 Pulse Jet System

Industry: Glass Recovery

PROJECT DETAIL

NSW FIRE & RESCUE

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Airtight Pty Ltd

Trading Name: Airtight Solutions

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Email: sales@airtight.com.au

Web: www.airtight.com.au

AON Insurance Australia

\$20M Public and Product Liability cover

\$20M Professional Indemnity cover

Year Established: 2002



WHY PARTNER WITH AIRTIGHT?

At Airtight we strive for Shared Success. This is achieved by developing high performing teams that are aligned with our vision and values.

Shared success is dependent upon strong professional relationships and having genuine conversations.

We know that if we succeed, then all our valued clients and partners also succeed. This integrated approach begins with our people and the belief that together we can develop trusting relationships with all stakeholders to achieve long term mutual success.

**CONTACT US TODAY FOR YOUR
FREE CONSULTATION AND QUOTE.**



**DO IT ONCE
DO ✓ RIGHT**