

# Capability Statement

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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 and New Zealand. We have extensive experience with a verifiable track record of successful applications. This strong reputation is built upon decades of supplying well-engineered systems.

Airtight Solutions is a part of the greater Vortex Engineering Group, which includes several established business units, all serving a similar industry vertical, from metal fabrication through to utility level engineering firms.

Airtight Pty Ltd is a privately owned company where our goal is to maximise returns from our operations to deliver value to our clients and partners.

## 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

## 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 HI-SERIES	NFK HI-SERIES	FMK	FMC	CDS	APM-P	APM-B	CYCLONE	PIS40
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 Meyigon | 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 Kitchin | 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:** FMC16A + 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.





### Airtight Pty Ltd

Trading Name: Airtight Solutions

ABN: 93 100 686 897

Tel: 1800 424 784

Email: [sales@airtight.com.au](mailto:sales@airtight.com.au)

Web: [www.airtight.com.au](http://www.airtight.com.au)

### AON Insurance Australia

\$20M Public and Product Liability cover

\$20M Professional Indemnity cover

### ANZ Bank

Acc Name: Airtight Pty Ltd

BSB: 013 006

Acc No: 8365 46396

Year Established: 2002

**DO IT ONCE  
DO ✓ RIGHT**



## 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.**

