



Your one-stop global energy solutions partner

ACTOM

SINCE 1903

John Thompson

Your partner in energy and environmental solutions through value engineering and innovation.

The Air Pollution Control business unit of John Thompson provides a comprehensive range of air filtration / dust collection products and systems for emission control, gas cleaning and product recovery. We provide a complete service of design, manufacture and installation of dust control equipment for any type of dust in industrial, mining and commercial environments.

Solutions Driven

At John Thompson, we value customer-driven excellence which is evident in the high-quality emission control equipment we provide to comply with your Atmospheric Emission License.

This is achieved through the right human capital to provide fume dust source identification and evaluation. The appropriate equipment is selected for the application and CFD is performed where appropriate.

Engineering Excellence

Process design, structural design and welding requirements are completed by our competent ECSA and IWE-accredited engineers before 3D modelling and manufacturing drawings are created.

The equipment is manufactured in our workshop. Experienced installation and construction crews are allocated to the project. Commissioning is performed by a team of highly skilled individuals.

Certifications

- BBEE – Level 1 contractor
- ISO 3834: IIW Manufacturer Certification Scheme
- ISO 9001: 2015
- ISO 14001: 2015
- ISO 45001: 2018
- Lloyd's certificate of manufacture
- Fully comply with OHS Act and other safety requirements
- CIDB 9ME Qualification
- 3 Flames Member of SAGA
- Nuclear Safety Culture in compliance with RD0034 Level 1



Products & Services

Tubular Reverse Pulse Bag Filters

An automatic, robust and cost-effective dust collection solution for larger dust control industrial applications. Featuring a modular bag design, easy maintenance access and fabric areas from 75m² to 1500m², it delivers reliable performance across mining and general industry environments.

Envelope Reverse Pulse Bag Filters

The automatic reverse pulse bag filter modular design provides a compact filter for continuous operation with high dust loads and constant pressure drop. The flat bags give maximum cloth area with

minimum space and the modular construction allows accurate sizing of the filter to design air volume.

Dust Suppression

Dust suppression systems use the principle of agglomeration to achieve dust control in a material handling system. During the operation of the dust suppression system, the dust particles are bombarded with atomized water droplets, typically between 3 and 30 micrometers in size.

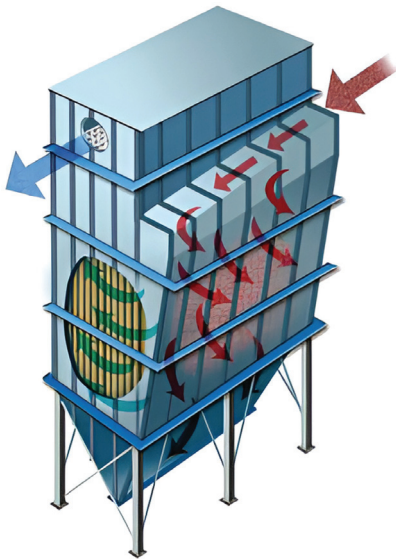
The water droplets attach to the dust particles changing its density. The result of this is that the dust particle becomes heavier and subsequently drops out of the air stream.

Wet Scrubbers

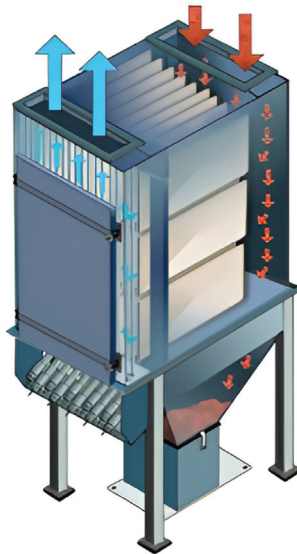
Wet scrubbers for air cleaning use liquid to wash pollutants from the gas stream. John Thompson provides four different scrubber designs:

- Dynamic scrubber with integral fan
- High-efficiency venturi scrubbers
- Packed towers for gas absorption
- Vaned scrubber with no moving parts

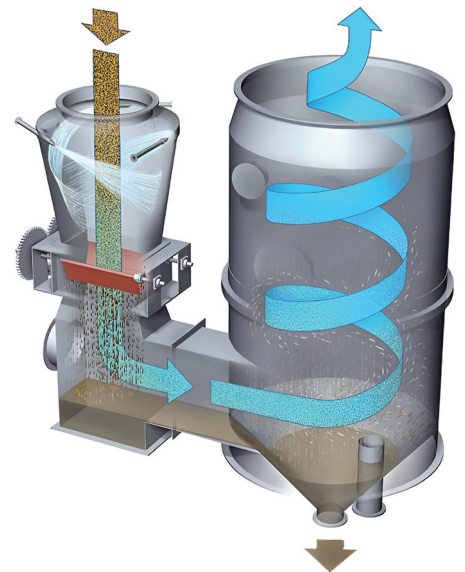
We supply these in several configurations and a range of sizes. They can be constructed in carbon steel, plastics/FRP or exotic stainless steel.



Tubular Reverse Pulse Bag Filter



Envelope Reverse Pulse Bag Filter



Wet Scrubber

HVAC Systems

John Thompson HVAC systems maximise productivity and system efficiency with reliable air conditioning, high-performance Heating, Ventilation and Air conditioning solutions.

Our well-engineered, innovative and efficient air quality control systems ensure precise temperature and humidity control required by textile, pharmaceutical and clean room industries.

Manufacturing

The John Thompson Isando Steel Fabrication Facility, which is located in the industrial area of Isando, Johannesburg provides a wide range of manufacturing capabilities for the steel manufacturing industry. We are ISO 3834 part 2 accredited which enables us to assist clients with a service of the highest quality. Our knowledgeable staff have extensive skills and experience in the steel industry to

provide high quality manufactured steel components in accordance with various local and international standards, including ASME and EN, as well as various client standards.

The manufactured components include bag filters, boiler tube shields, coal hoppers, fuel tanks, pressure vessels, pulse tanks, pulverised fuel burners, shell liners, smoke stacks, superheater elements and transformer tanks.

John Thompson Air Pollution Control

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MAJOR INDUSTRIAL REFERENCES:

AfriSam	Hillside Aluminium	Senet
African Products	Fluor-Daniel	Tati Nickel
AECI	Hulamin	Eskom
Arcelor Mittal	Foskor	E & PC
Metalloys	Glencore	Exxaro
Assmang	Ferro Metals	ELB Engineering
Alstom Power	Hatch	Loesche
Anglo American	Heckett	Metso
ASA Metals	Hernic Ferrochrome	Moma Mineral Sands
Tenova Takraf	Impala Platinum	Namzinc
BHP Billiton	K'Enyuka	Murray & Roberts
Babcock	Kumba	Mozal
Cato Ridge Alloys	Lafarge	Outotec
Columbus Stainless Steel	Samancor	PPC
DRA	Rio Tinto	Tronox
Drytech	Scaw Metals	Valterra Platinum
Dundee Precious Metals	Richards Bay Minerals	Zinchem



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