

AYRA™



Comprehensive solutions for air pollution control, odor treatment and solvent recovery for industries and municipalities.



John Cockerill Air & Gas



Ayra™, high-performance treatment and recovery solutions for corrosive, harmful and odorous gaseous effluents

Supporting the ecological transition and circular economy

Experts in air pollution control and odor treatment for over four decades, John Cockerill designs, develops and puts into service innovative and made-to-measure solutions, suited to the specific needs of each client. Our comprehensive Ayra™ product range from odor removal (olfactory pollution) and gas de-pollution (chemical pollution) to industrial ventilation, and the recovery of either the energy contained in the waste stream being treated, or ammonia being used as a mineral fertilizer.



Workshop, testbench, and laboratories in Alsace, France

Our technologies:

AyraScrub™
Gas Scrubbing

AyraCarb™
Activated Carbon Adsorption

AyraVita™
Biofiltration

AyraVal™
Stripping (REUSE)

AyraCal™
Energy Recovery

AyraVent™
Industrial Ventilation

Creating value for our clients

In addition to our **In-house workshops** committed to highest standards of safety and quality, our **test bench & laboratory** in France, allow for customer-centric process development and validation to ensure the most adapted equipment design.



Workshop in Hungary

Our applications:

Innovative, optimized and made-to-measure treatment solutions for:



Odor removal (olfactory pollution)



Gas de-pollution (chemical pollution)



Industrial ventilation



Ammonia recovery (REUSE: fertilizer)



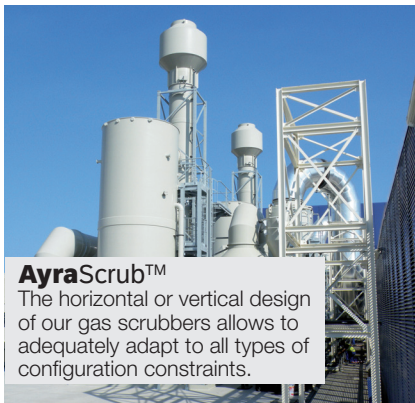
Energy recovery from gas emissions



Workshop in Québec, Canada

Ayra™ stands for innovative solutions, equipment & process engineering

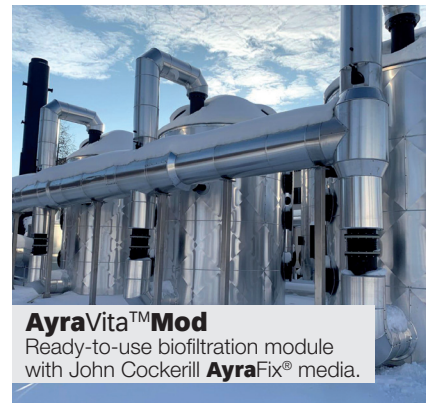
Our Ayra™ product line is combining performance and local services. From air pollution control and odor treatment to the recovery of energy and valuable solvents used as mineral fertilizers, the Ayra product range is providing particularly adapted solutions even for the most demanding applications and industries.



AyraScrub™
The horizontal or vertical design of our gas scrubbers allows to adequately adapt to all types of configuration constraints.



AyraVita™
Biofiltration with organic or inorganic media.



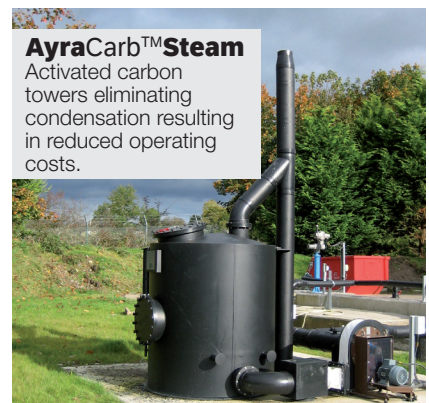
AyraVita™ Mod
Ready-to-use biofiltration module with John Cockerill **AyraFix®** media.



AyraCarb™
Activated carbon towers covering a wide flow range.



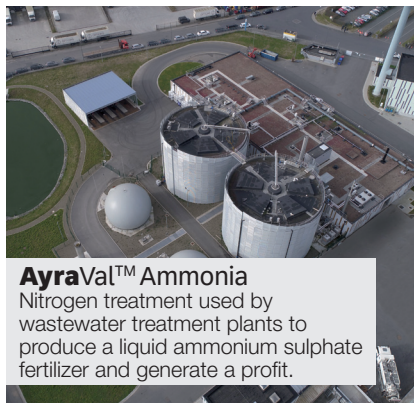
AyraCarb™ Odor
Ready-to-use activated carbon towers for optimal odor treatment. Flow rates: from 80 to 1 270 cfm.



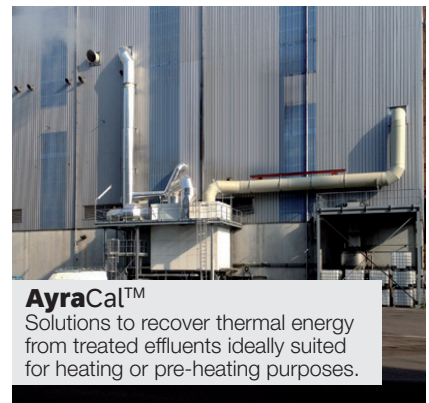
AyraCarb™ Steam
Activated carbon towers eliminating condensation resulting in reduced operating costs.



AyraVent™
Centrifugal fans made of thermoplastics, specifically designed for airflows up to 82 400 cfm and medium & high-pressure air extraction of up to 5 000 Pa.



AyraVal™ Ammonia
Nitrogen treatment used by wastewater treatment plants to produce a liquid ammonium sulphate fertilizer and generate a profit.



AyraCal™
Solutions to recover thermal energy from treated effluents ideally suited for heating or pre-heating purposes.



Our **Ayra™** product range provides customized and efficient solutions that can be combined to obtain the optimal result for numerous industries and public bodies.

INDUSTRIES

Aeronautics
Automotive
Micro-electronics
Light & heavy chemicals
Food processing
Plastics galvanizing (Surface treatment)

PUBLIC BODIES

Wastewater purification stations
Waste sorting centers
Composting centers
Research laboratories
and many more.



Dealing with gigantic flow rates of 515,000 m³/h, the horizontal gas scrubbers on this photo are among the largest ever supplied under this design.

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John Cockerill Environment's solutions support the ecological transition and circular economy

Because protecting natural resources and developing green energy production is a vital issue for us and future generations, John Cockerill Environment offers its historical experience, solid technological expertise, and innovative boldness in water, air and waste treatment.

Its Air & Gas Business Line offers adapted and effective solutions for the treatment of corrosive, harmful and odorous gaseous effluents, as well as the recovery of valuable solvents and energy.

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