



A Complete Range of Air Pollution Control Technologies Yields
The Best Solution for Your Air Pollution Control Application!



Design, Supply and Installation of

- Chemical Scrubber
- Bio Trickle Filter/ Scrubber
- Carbon/Physical Adsorption Filter / Scrubber
- Venturi Scrubber
- Regenerative Thermal Oxidizer
- Emergency Chlorine Scrubber System
- Demister
- Ducting and Damper
- Cover
- Gas Monitoring Unit



More than a decade presence and track records in the Middle East!

Our Partners:



Ship & Shore
Supplier of Regenerative Thermal Oxidizers or
RTO's, heat recovery and Concentrators.



AT Covers
Supplier of Aluminum covers and housings for
tanks and process equipment



Mietzsch GmbH
Manufacturer of plastic/GRP fans.



Al-Watani
Manufacturer of GRP, PE, and POLYMER
vessels in Middle East.



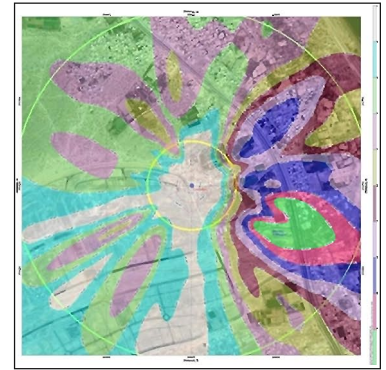
Leopold Siegrist GmbH
Supplier of gas measuring instruments.



Munsch GmbH
Manufacturer of innovative and reliable non-metallic pumps

Air Pollution Study & Environmental Impact Assessment

- >Site Investigation
- >Pollutants Measurement; (stack and ambient air monitoring, free surface static/dynamic head space analysis, odorous air sampling and Olfactometry analysis.)
- >Control Methods Review; (emission pattern modification, process modification and control system)
- >Dispersion Modeling
- >BACT(Best Available Control Technology)
- >Control System Design

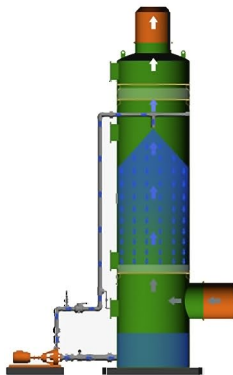


Gas Monitoring Unit

Hazardous gaseous emissions are produced in many industries. Quantitative measurements of the polluting gases are of paramount importance for occupational health and safety as well as environmental regulatory laws enforced by various standards. The gases could be reliably monitored and measured by our analyzers.

Odor Control Systems

AAI is a leader in supplying complete odor control systems in the region providing proven chemical scrubbing, biological filtration and carbon adsorption technologies to our customers. We represent major top suppliers for the pumps, fans and other peripheral equipments utilized in our system designs.



Chemical Scrubber

Wet scrubbers are used successfully for many years to remove pollutants from air streams containing gases and liquid or solid particulates. Where multiple pollutants are present in a gas stream, normally a wet scrubber system is selected due to the possibility of utilizing different chemical agents in each stage for the removal of the specific gaseous contaminants. We remove a complete range of inorganic and organic gases. Our SO₂, NO, NO₂, HCl, Cl₂, HBr, Br₂, Ethanol, and MEK scrubbers have a proven record for achieving the most stringent standards. Send us your inquiry for your specific application to receive our proven engineering solutions.

Carbon Filter I Solvent and Vapour Recovery Systems

Carbon filters are used to remove and or recover a whole range of organic and inorganic gases. The pollutants come into contact with the carbon and are physically adsorbed on the carbon surface and removed. For low concentration applications such as odor control a single stage carbon filter is supplied. For high concentration organic compounds multiple carbon vessels are provided for operating/standby design and potential recovery of the gaseous compounds.



Regenerative Thermal Oxidizer

AAI in joint with **Ship & Shore Environmental** is supplying RTOs as the most efficient technology used to destroy large volumes of air pollution containing VOCs, HAPs, and odorous emissions from many industrial applications. At greater than 99% destruction efficiency and 95% energy efficiencies RTOs significantly reduce operating costs and energy consumption. Our claims are backed by 100s of operating systems.

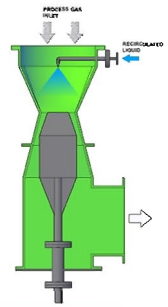


Bio Trickling Filter

In a typical bio trickling filtration system, the polluted air is ventilated to the filter by a fan. The extracted air is then passed through a biologically active packing media to remove the pollutants. Clean air is discharged through a stack installed on top of the bio filter. Removal efficiencies vary based on the gas being treated. Removal efficiency of higher than 99.5 % is achieved for Hydrogen Sulfide. Contact us for your specific application.

Venturi Scrubber

Venturi scrubbers are used to collect large to fine particulates from industrial emission sources that are corrosive, flammable, or hazardous and contain difficult to handle solids. The particulate collection efficiency of a venturi scrubber is comparable to that of an electrostatic precipitator or a fabric filter baghouse.

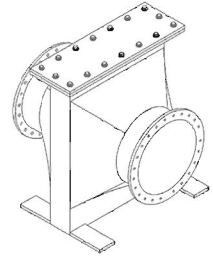


Emergency Chlorine Scrubber System

AAI's ECSS has a time-tested proven design removing Chlorine emissions in excess of 99.999% for release rates as high as 40 Kg/Min. The outlet concentration of Chlorine gas reaches 1 ppmv and is guaranteed to fully meet the requirement of UFC or less than 5 ppmv.

Demister

An inline demister is used in air pollution control systems to remove mist or dust from a gas stream. Some common applications are its placement before physical adsorption process/ carbon filters or regenerative thermal oxidizers and after chemical scrubbing or bio trickling filters.



Covers

AAI in joint with **AT Covers**, is designing, supplying and installing Aluminum Covers in Wastewater Treatment Facilities such as Pump Station Wet Well, Screens, Grit Removal, Equalization Tank, Aeration Tank, Sedimentation Tank, Aerobic Digester, Oil Separator (API, DAF, etc), Sludge Thickener, Sludge Holding Tank and Oxidation Tank.

Dampers

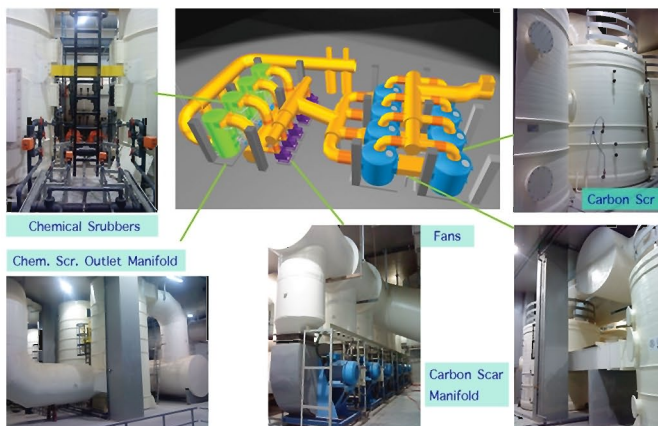
GRP manual or motorized dampers lined by Vinyl Ester resin offer the maximum resistance to corrosive gases. Our dampers require no or minimal maintenance and could be integrated into the ducting system providing leak proof and durable operation.



Vessels, Tanks and Ducting

Our dedicated modernly equipped ISO certified manufacturing facility as well as our engineering capability enables AAI to produce a wide range of sizes from 200 mm to 4250 mm ID scrubbers and vessels. AAI vessels can be made to any height and in many sections as required by the project specification. High quality ISO procedures and testing methods are carried out to ensure the highest quality level of production.

Custom Design Capability provides you with the most optimal design. Most other suppliers try to sell you their pre-engineered packages that may or may not be the most optimal solution for your specific needs. However, AAI's engineering capability provides our customers with unlimited options to select what is the most optimal Air Pollution Control System.



Time Tested Design and Components facilitate the most reliable Air Pollution Control System that achieves the highest level of performance and yields removal efficiencies greater than 99.995%! Additionally, AAI's peripheral equipments (i.e. Vessels, Fans, Pumps, Instrumentation, etc.) serve you well for the expected life of the Air Pollution Control System and beyond.

Regional Expertise and Maintenance Support means you get speedy local support for your technical needs. Our local engineering team has more than 100 years of experience in Air Pollution Control System design and supply. Our technicians are ready to be dispatched within a short notice. Our experts do not have to fly through continents to respond to your call for a meeting on site or in your office.



Extensive Spare Parts inventory Program reduces your waiting time to receive maintenance components for emergency cases. We keep an inventory of all crucial parts for your peace of mind. We guarantee this service for a minimum of 10 years after sales.

ISO certified manufacturing facilities ensure that the highest level of quality products are supplied with your Air Pollution Control System. Our scrubbers, vessels, fans, pumps and instruments are all ISO certified!



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Committed to Quality and Service