

# SYSTEMS TECHNOLOGY



**MIKROPUL**

DRY FILTRATION  
WET SCRUBBERS  
CYCLONES  
WET ELECTROSTATIC  
PRECIPITATORS

# MIKROPUL SYSTEMS TECHNOLOGY

MikroPul offers complete turnkey off-gas treatment systems design and implementation capability including:

- Process analysis
- System design
- Equipment supply
- Installation
- Start-up
- Testing

MikroPul will integrate all elements from the source to the stack into a harmonious interacting process which consistently produces the desired economic and environmental results. This relieves you of the burden of selecting, integrating, and installing all the items comprising a complex system, while you gain the benefit of working with air quality professionals who understand your process.

## MikroPul Strengths

MikroPul's blend of experience, product line depth, technology, and global resources make us uniquely qualified to turn your toughest emissions control, gas cleaning, or product recovery requirements into properly executed, commercially reliable solutions.

Our specialized knowledge and experience translates into faster, more efficient design, procurement, and installation of your system. It also means that we can better recognize potential problems and resolve them in the early stages.

## Specific Experience

Over the years, MikroPul has developed expertise in certain areas, including:

- Safe and efficient processing of corrosive, explosive, pyrophoric, bioactive, and other materials requiring special handling.
- Removal of fluorides and SO<sub>2</sub> utilizing a dry injection system on sinter strand and other applications.



*Dust collection system installed at anode paste plant*

- New systems which are required to meet occupational health and safety standards set by governmental agencies.
- Coal gasification, fluidized bed combustion, and other methods for reducing acidic gas emissions from industrial combustion processes.
- Complete electric arc furnace off-gas systems, including direct evacuation design, water-cooled duct work, canopy design, gas cooling system controls, and fabric filters.

Our solutions to process problems have been incorporated into traditional markets such as cement, food/pharmaceuticals, primary and secondary metals, and commodity chemicals.

## Technologies

MikroPul is well known for the invention of the pulse-jet dust collector, and we offer more

capability here than anyone. But we also have considerable experience and a comprehensive line of proven products incorporating other technologies as well:

- **Cyclones** for particle separation.
- **Cartridge Collectors** for compact, high efficiency filtration.
- **Reverse Air and Shaker Collectors** for combustion related applications.
- **Dry Scrubbers** for flue gas treatment.
- **Wet Scrubbers** for gas cleaning applications.
- **Wet Electrostatic Precipitators** for removing oily, tarry, or sticky particulate.

MikroPul's engineering team will work closely with you to understand your needs. Your system will receive our total quality commitment from the initial evaluation, through delivery, start-up, and after-sale follow-up and service.



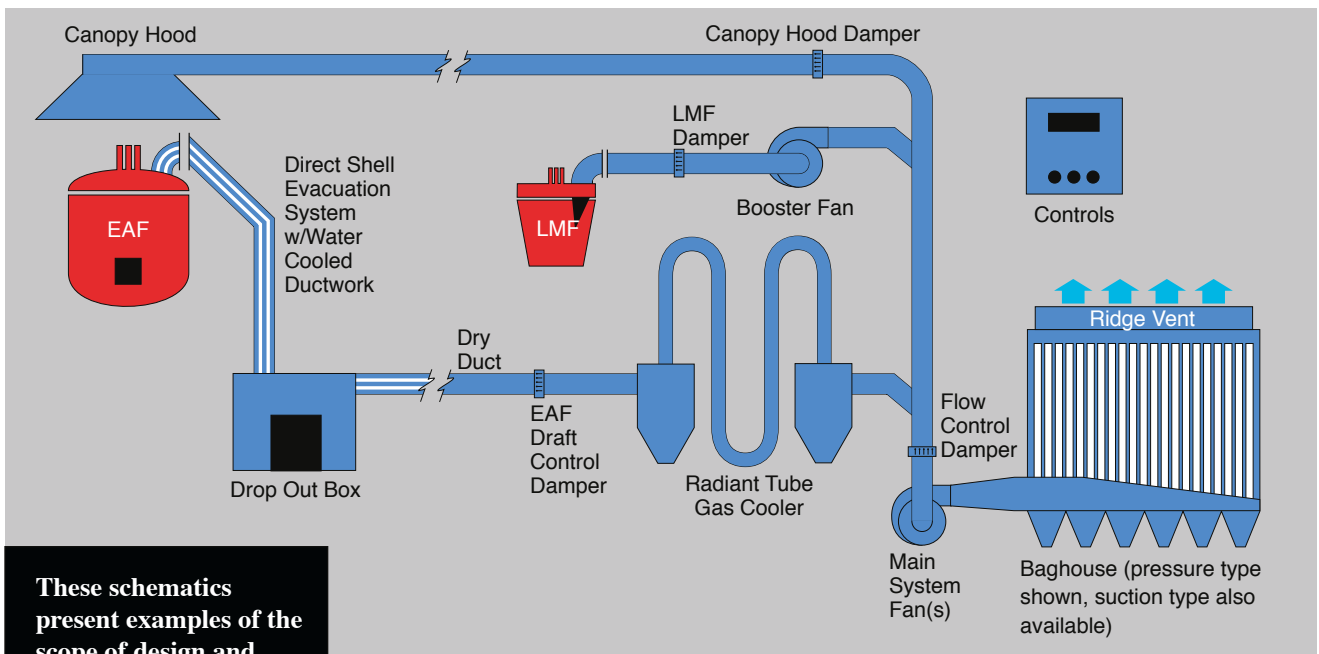
Dust collection system installed at Calcium Hypochloride manufacturing facility



Wet electrostatic precipitator installed at fiberglass manufacturing plant

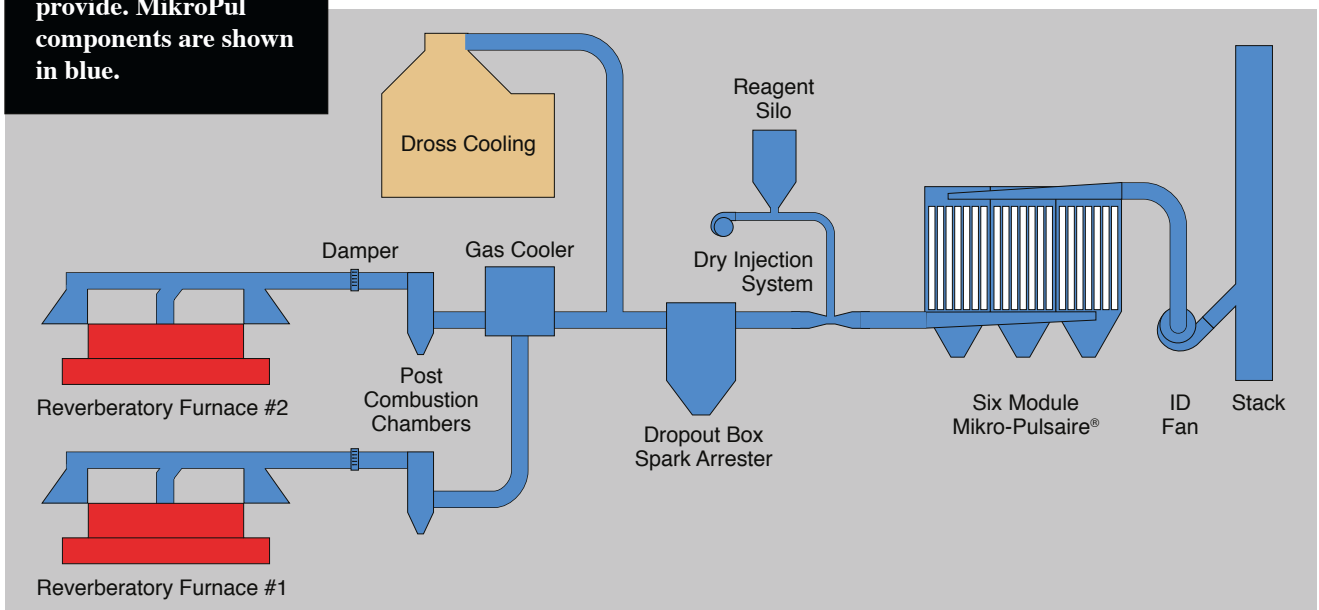


Dust collection system installed at a major steel manufacturing facility



EAF fume control system with LMF

**These schematics present examples of the scope of design and supply MikroPul can provide. MikroPul components are shown in blue.**



Emissions control system for aluminum melting furnaces with dross cooling

# MIKROPUL SUPPORT

MikroPul backs up our products and systems with worldwide customer support. Call us any time you need help.

## Parts and Media

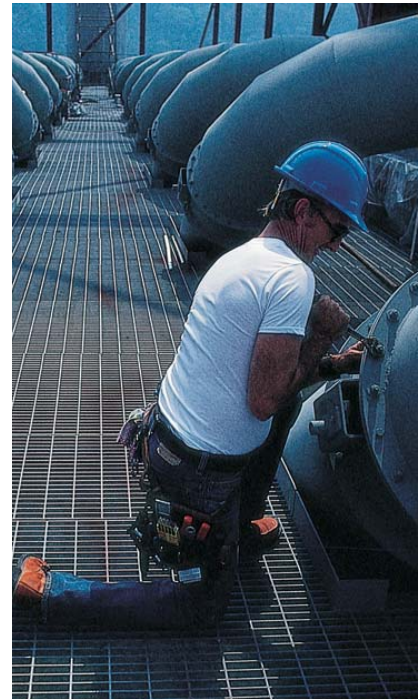
Because we know your equipment, MikroPul is your best resource for parts and media. We carry a full line of replacement parts, and keep critical items in stock for immediate shipment. We can also provide filter media with the proper construction and treatments best suited for your system.

## Services

MikroPul has the unique capability to update your system to meet today's changing operating conditions and performance requirements. Our services include:

- Complete systems evaluations
- Mechanical equipment review and evaluation
- Equipment refurbishing
- Equipment rebuilding
- Technical training
- Maintenance training

Whether you need spare parts, equipment service, or complete system rebuilds, we are here to support your requirements.



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