

PRODUCTS • SYSTEMS • TECHNOLOGIES

# MET-PRO CORPORATION

INNOVATIVE  
SOLUTIONS

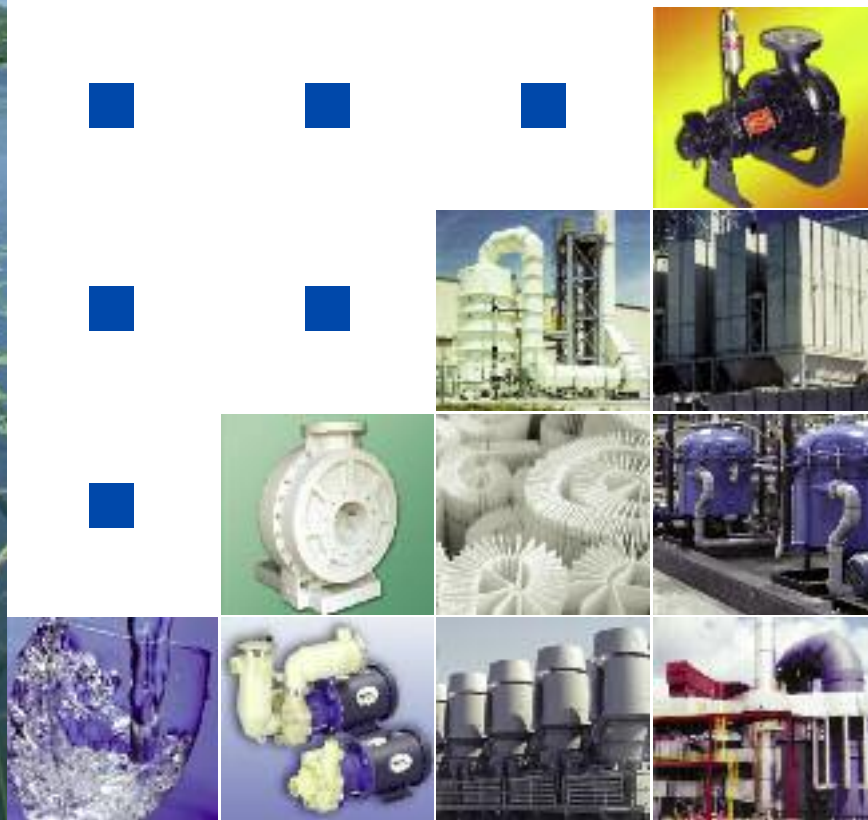
& . . . . .


PRODUCTS

*for Protecting Our Environment While Serving  
Business and Industry Around the World*



We're Connected!





INNOVATIVE  
SOLUTIONS

&

PRODUCTS



*For Protecting Our  
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We're connected!

# Welcome to



*Put our products to work for you*

**M**et-Pro Corporation is a leading niche-oriented global provider of a wide range of products and services for industrial, commercial, municipal and residential markets. These include product recovery and pollution control technologies for purification of air and liquids; fluid handling technologies for corrosive, abrasive and high temperature liquids; and filtration and purification technologies, which include proprietary water treatment chemicals and filter products for air and liquid filtration. Each Met-Pro business unit offers field-proven, time tested product or system solutions to meet your requirements on time and on budget. More important, each also offers you an advantage that's unavailable anywhere else – the combined experience and knowledge gained by years of working together to develop integrated product and system solutions for hundreds of companies. This brochure includes brief profiles of Met-Pro's business units – explaining who they are, what they do, and how they might fit into your organization's plans for growth. We will be pleased to discuss your application in detail, and look forward to hearing from you soon.



Hello:

I'd like to personally welcome you to Met-Pro Corporation. We are a dynamic, growth-oriented organization composed of many different business units offering compatible products and solutions for protecting our environment while serving business and industry around the world.

Met-Pro's operations have hundreds of years of combined experience with a broad and diverse customer base. We've achieved our leadership position – and maintain it – by building our organization with outstanding people and superior products, which work together to meet a wide variety of applications in virtually every industry. You'll see a good example of this starting on page 12 of this brochure, with an interesting center fold-out that depicts a hypothetical industrial site utilizing products and systems from each Met-Pro business unit. Working together with one or more of them brings you complete, multi-faceted solutions to help improve your product or your process, speed throughput, reduce costs, comply with applicable codes and standards, and enhance profits.

We hope you'll find this brochure interesting, informative, and, most of all, useful to help you improve your productivity and profitability. If you would like more details about any of our operations, we've included web addresses for each business unit on their respective products and capabilities pages.

A handwritten signature in cursive script, reading "Raymond J. De Hont".

Raymond J. De Hont  
Chief Executive Officer and President



Raymond J. De Hont  
Chief Executive Officer and President

# Innovative

## Solutions & Products

### Fluid Handling Technologies



#### Met-Pro Global Pump Solutions - Dean Pump

The Dean Pump brand is recognized worldwide for high quality pumps that handle a broad range of industrial applications for the chemical, petrochemical, refining, pharmaceutical, plastics, pulp and paper, and food processing industries. Dean pumps are particularly recognized for handling hot oil and hot water applications with temperatures to 850°F (454°C). For more than 140 years, Dean Pump has provided rugged, field proven equipment that has set the industry's standard for performance and reliability.



#### Met-Pro Global Pump Solutions - Fybroc

The Fybroc brand is the most complete line of fiberglass reinforced plastic ("FRP") centrifugal pumps for handling seawater, corrosives, caustics, solvents and other difficult liquids. Fybroc's vinyl ester and epoxy resin pumps offer many advantages over specialty alloy metal pumps used for these same applications including substantial cost savings, lighter weight, added reliability, and longer service lives. Fybroc pumps are in use throughout the world in production and processing facilities, public aquariums, reverse osmosis, desalination and marine applications.



#### Met-Pro Global Pump Solutions - Sethco

Sethco is a leading brand of horizontal and vertical corrosion resistant centrifugal pumps, with flow rates to 250 gallons per minute. Manufactured from both high strength thermoplastics and stainless steel, Sethco brand products are particularly suitable for use in applications in the metal finishing, electronics, chemical processing, wastewater treatment, and aquarium/aquaculture markets. Sethco pumps are also a critical component in Sethco and Mefiag filtration systems used in plating and printed circuit board operations. A variety of pump configurations ranging from off-the-shelf drum pumps, to a full range of magnetic drive centrifugal pumps, to custom engineered vertical sump pumps make Sethco brand products adaptable to almost any pumping application.

### Filtration/Purification Technologies



#### Keystone Filter

Keystone Filter provides innovative solutions and products for residential, commercial, and industrial filtration. Its products include a diverse line of filters, cartridges, and filter housings, as well as a recently introduced line of UV products, and Filter Klear® chemical recycling systems. The company is a major supplier to original equipment manufacturers, and provides innovative solutions through development of new filtration products for difficult industrial air and liquid applications and potable water applications. Keystone provides products to many high end customers including the United States military and the nuclear and aircraft industries.



#### Pristine

Pristine Water Solutions Inc., provides proprietary chemicals for the treatment of municipal drinking water systems and boiler and cooling tower systems. These products reduce iron, manganese, lead and copper levels in drinking water systems, as well as reducing corrosion, scaling and microbiological levels in all water systems. Pristine Water Solutions Inc. also provides products for improving water clarity while reducing sludge volume and trihalomethane levels within a water system.

# We're connected!

## **Mefiag Filtration Technologies**



### **Mefiag**

Mefiag offers a complete line of horizontal disc, cartridge, bag, carbon, and oil absorbing filters, as well as Carbolux® carbonate precipitators, for tough, corrosive applications in the plating, metal finishing, and printing industries. Mefiag also offers corrosion resistant FRP, polypropylene and PVDF pumps in standard end suction and optional magnetic drive and self-priming configurations. Filter systems, pumps and accessory equipment are manufactured at facilities located in the Netherlands, the United States, and the People's Republic of China.

## **Product Recovery/Pollution Control Technologies**



### **Met-Pro Environmental Air Solutions - Duall/Bio-Reaction**

Our Duall and Bio-Reaction brands provide a complete line of corrosion resistant, custom engineered solutions to help you eliminate hazardous air pollutants (HAPs), water contamination, and process odors. Products include chemical, carbon and biological odor control systems, fume and emergency gas scrubbers, wet particulate collectors, air strippers, degasifiers, ducting, and exhaust fans. Our products are sold both domestically and internationally to the metal finishing, plating, wastewater treatment, composting, food and dairy, aerospace, chemical processing, printed circuit, semiconductor, steel pickling, pharmaceutical, battery manufacturing and groundwater remediation markets.



### **Met-Pro Environmental Air Solutions - Flex-Kleen/Duall**

Our Flex-Kleen and Duall brand dust collector solutions have successfully met the most demanding technical challenges of industry for more than 50 years, including corrosive environments, sanitary conditions, combustible dusts and gases, hygroscopic materials, low bulk density materials, and materials that are under high temperature, high pressure or high vacuum. Products include pulse jet fabric filters, cartridge collectors, cyclones, HEPA filters, and wet particulate collectors. Over 140,000 Flex-Kleen and Duall brand dust collectors, ranging in size from 30 cfm to 250,000 cfm, are in use throughout the world in industries including chemical processing, plastics and petrochemicals, food and dairy, paint and pigments, mining and minerals, cement and rock products, coal and fly ash, and pharmaceuticals.



### **Met-Pro Environmental Air Solutions - Bio-Reaction/Systems**

Met-Pro Systems and Bio-Reaction brand solutions successfully help our customers remove or reduce volatile organic compounds (VOCs) and other hazardous air pollutants (HAPs). Products include regenerative thermal oxidizers (RTOs), recuperative thermal oxidizers, catalytic oxidizers, VOC concentration systems, and bio-oxidation systems for the capture and breakdown of VOCs and HAPs. These products are in use throughout the world at aerospace, chemical, petrochemical, petroleum, pharmaceutical, coatings, electronics, food processing printing, automotive, ethanol production, wood products, paint manufacturing and animal processing facilities, among others. They provide field-proven multi-discipline solutions to tough air pollution control problems.



### **Strobic Air**

Strobic Air Corporation, a recognized technological leader in the air movement industry, specializes in technologically advanced exhaust systems for laboratory fume hoods in university, public health, government, chemical, pharmaceutical, industrial, and other process industries. Solutions and products include Tri-Stack® fume hood exhaust systems for pollution abatement and odor control; the patent pending Tri-Stack® Smart System™ for maintaining safe ventilation levels while minimizing facility energy costs; ventilation heat recovery systems; HEPA filtration systems; and fan silencers for quieter operation in particularly noise sensitive areas.

# Dean Pump



**Pumping solutions for global industry – a Dean Pump tradition since 1869**



**Experience counts. At Dean Pump, it counts for rugged, service tested equipment that has set the industry's performance criteria.**

**O**ur experience speaks for itself. Think about it – 1869! That's a lot of pumps out our door, many of which have become industry standards, recognized worldwide for engineering and manufacturing excellence. Dean brand pumps are working hard everywhere – at chemical and petrochemical plants, mines, power plants, pharmaceutical manufacturers, food processors and for a wide variety of hot oil and hot water applications.

Our pumps are available in a number of configurations, materials, sizes, capacities and temperature ranges. We design them to fit into thousands of installations. And when a customer has a requirement for a new pump application, we work to create a new pump solution.

## **Pumps matched for your precise requirements**

- Magnetic drive air-cooled high temperature pumps
- Magnetic drive ANSI chemical processing pumps
- Heavy duty process pumps
- Air-cooled, high temperature pumps
- Horizontal, vertical, and self-priming ANSI pumps
- Heavy duty industrial inline pumps

# High temperature liquids ... high performance pumps



**Y**ou can count on it. Dean pumps are particularly recognized for the ability to move high temperature liquids to 850°F. Our thermal liquid pumps represent the highest quality and most cost effective heat transfer equipment available today. With our new ideas – and many years of successful design and manufacturing experience – we’ll solve the most difficult liquid pumping problem quickly, efficiently and economically to keep your process flowing.

“The Dean Pump brand is set apart by experience. Experience that comes from listening to customers’ requirements and reacting with new designs that stand the test of time. This policy has helped us remain successful for nearly a century and a half. We intend to continue it.”

General Manager  
Met-Pro Global Pump Solutions



*Chemical and Petrochemical Processing*



*Pharmaceutical and Food Processing*



*Hot Water and Hot Oil*

**For more information  
visit [mp-gps.com](http://mp-gps.com)**

# Fybroc



## Fiberglass reinforced plastic (FRP) centrifugal pumps for harsh environments

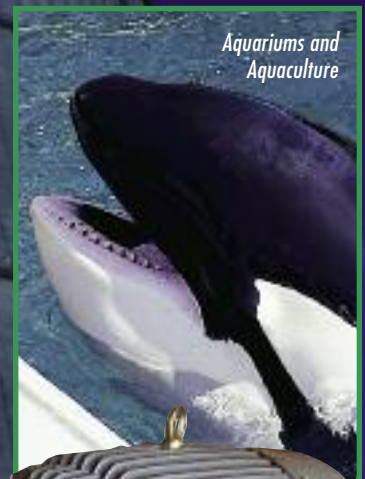


Fybroc brand non-metallic FRP pumps provide years of dependable service for corrosive or caustic liquids in extreme service applications

For more than 35 years, Fybroc has been the world leader in design and production of fiberglass pumps for corrosive and other difficult liquids. You'll find Fybroc brand pumps hard at work anywhere corrosive acids, bleach, caustics, salt water, wastewater, abrasive fines and solvents are transferred. They offer many advantages over exotic alloy metal pumps normally required for these applications including lower cost, lighter weight and dramatically improved service lifetimes. Fybroc pumps are available in many different configurations (including our full line of innovative "sealless" magnetic drive pumps), sizes and capacities.

### Many different materials available

- Vinyl ester resin for most corrosive liquids including acids, caustics, bleaches, seawater and brine
- Epoxy resin for outstanding solvent resistance
- Specialty vinyl ester resins with abrasive resistant material for liquids containing abrasive fines, and the BPO/DMA cure system for sodium hypochlorite applications



Electric Utilities



# Corrosive liquids can shut down pumps and process/production lines

"We maintain an on-going commitment worldwide to enhance our customer's overall experience and to meet their expectations with regards to our Fybroc brand product offerings. This begins with "speed" in reacting and responding to our customer's needs, and ends with the ultimate goal of providing a quality product, competitively priced, and delivered on time."

General Manager  
Met-Pro Global Pump Solutions

Chemical and Petrochemical Processing



Chemical Transfer



Pulp and Paper Manufacturing

For more information  
visit [mp-gps.com](http://mp-gps.com)



## Fybroc pumps resist aggressive chemicals, compounds, solvents, and acids

Fybroc FRP pumps offer reliable, practical and cost-effective solutions for moving chemicals, petrochemicals, pharmaceuticals, fertilizers, pesticides, plating solutions or other liquids where corrosion may affect pump performance and reliability.

Fybroc brand pumps have no metal parts in contact with the liquid being pumped. This eliminates corrosion problems associated with metal pumps and harsh liquids including erosion caused by contact with caustic or corrosive liquids, and surface corrosion caused by acidic chemicals. Fybroc's non-corrosive pumps are particularly evident at public aquariums (such as the National Aquarium, Sea World, the Beijing Aquarium, and the Atlantis Paradise Island Resort), and other locations where seawater must be introduced, filtered, or recirculated. Our pumps have proven to be the ideal solution in corrosive salt water applications such as these. Their robust construction and substantially lighter weight also make them ideal for many shipboard and other marine applications.

## Corrosion resistant horizontal and vertical pumps

**CAUSTICS**

**CORROSIVES**

**ACIDS**

**ALKALIS**

**SOLVENTS**



If it flows, Sethco can move it — no matter how caustic or corrosive

Sethco brand corrosion resistant horizontal and vertical sealless pumps use a number of thermoplastic and stainless materials that can handle even the most difficult applications. With capacities to approximately 250 gallons per minute, Sethco brand pumps are designed, engineered and manufactured to reliably handle acid and alkaline solutions, as well as organic solvents and many other compounds.

Sethco sealless and magnetic drive drum pumps, which are used for transfer of a myriad of chemicals, are also available in corrosion resistant thermoplastic and stainless steel materials. All drum pumps are carried in stock at our warehouse facility.



# Special applications require special solutions

"The entire Sethco product line is specifically designed to handle the most difficult corrosive applications. With a wide variety of pump types and configurations, the Sethco brand offers the best solutions and products to fit our customers' most demanding needs."

General Manager  
Met-Pro Global Pump Solutions

## Sethco pumps move extreme liquids under extreme conditions

Sethco vertical in- or out-of-tank pumps are designed with no seals, bearings or wearable parts. They are the pump of choice for metal finishing applications worldwide.

Sethco sealless mag drives provide total liquid and vapor containment, and trouble free operation for corrosive fluids in a number of industries including metal finishing, water treatment, pulp and paper, chemical processing and general industry. All mag drive models include horizontal end-suction and self-priming configurations in polypropylene and PVDF materials of construction.

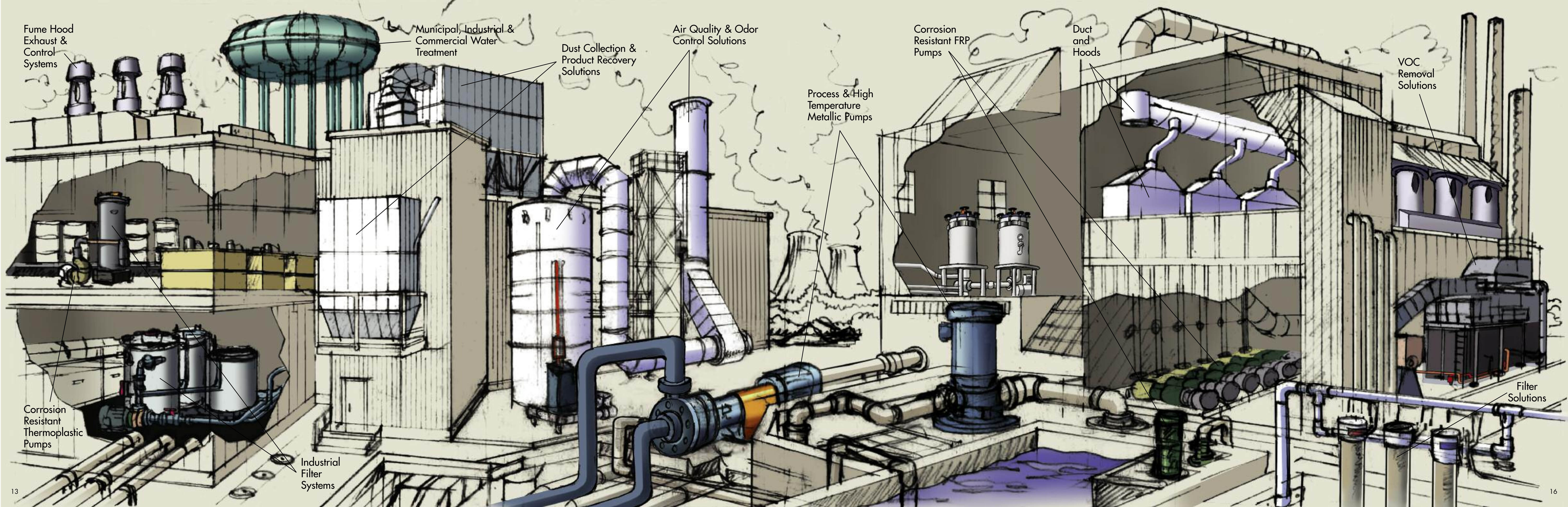


For more information  
visit [mp-gps.com](http://mp-gps.com)



Sethco vertical sump pumps are used extensively in wastewater treatment facilities for waste runoff sumps. PVC and CPVC construction provide an economical, reliable pumping solution for sumps with traces of acids and alkalis.





Fume Hood Exhaust & Control Systems

Municipal, Industrial & Commercial Water Treatment

Dust Collection & Product Recovery Solutions

Air Quality & Odor Control Solutions

Process & High Temperature Metallic Pumps

Corrosion Resistant FRP Pumps

Duct and Hoods

VOC Removal Solutions

Corrosion Resistant Thermoplastic Pumps

Industrial Filter Systems

Filter Solutions

# Keystone Filter



*Custom and standard filters for air, water, industrial liquids, chemicals or gas*



*Standard  
Filter  
Housings*

**Engineered filtration solutions tailored to your specific needs**

**K**eystone Filter offers unique capabilities for design and production of custom filtration products. Our pleated filter media and cartridges help assure the highest possible purity levels for air, liquids and gases in critical applications found in chemical and pharmaceutical research and processing, electronic device production, food processing, nuclear power generation and many others. Our special ability to pleat a wide variety of media materials in many different configurations has brought us to the vanguard of this technology.



*Custom Pleated  
Elements and  
Cartridges*



# Filters, cartridges, and housings for a wide range of process applications

"Our expertise is not only understanding filtration processes but also understanding the unique design criteria required in manufacturing a filter. This makes Keystone Filter the perfect partner in developing your new filtration product or helping you choose a standard product. Our flexible manufacturing capabilities allow us to provide innovative solutions to customers worldwide for their toughest filtration problems."

*General Manager  
Keystone Filter*



***Thanks to Keystone, there is no bottled water in this house!***

Who says you have to buy bottled water to get the spring quality water you want? Install a Keystone Filter and never buy bottled water again! Keystone manufactures a variety of products for residential applications designed to eliminate impurities such as lead, sediment, and chemical contaminants from municipal and well water sites.

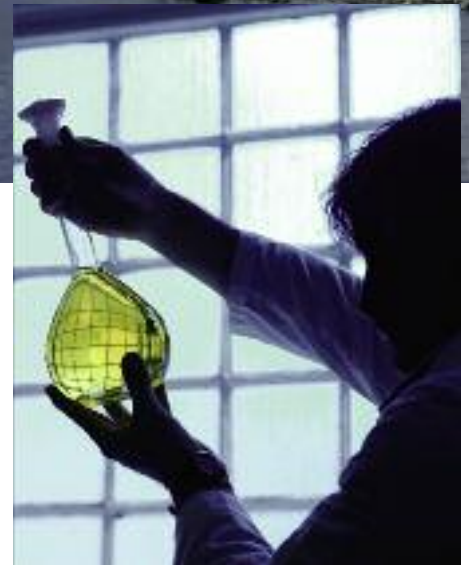
***The air is cleaner too!***

Keystone Filter also helps make the air in your home safer with our custom filter cartridges for use in home air purifiers.

***For more information visit [keystonefilter.com](http://keystonefilter.com)***



*Filters for U. S. Department of Defense*



*Filters for Laboratory Use*



*Filters for Beverage Bottling*

# Pristine Water Solutions



*Safe and reliable municipal, industrial and commercial water treatment programs*



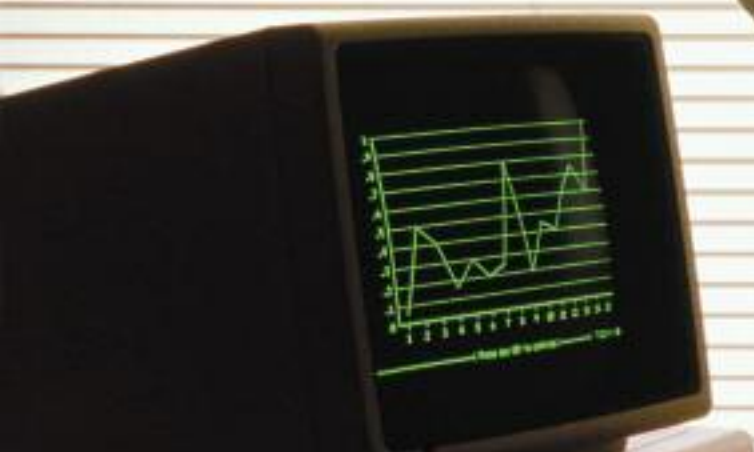
Pristine Water Solutions Inc. offers a "total water treatment solution" – leading the industry in a total system approach.



Pristine Water Solutions Inc. provides proprietary water treatment programs for municipal, industrial and commercial water systems. Technologies include municipal drinking water treatment programs, corrosion and sterilization programs, cleaners, commodity chemicals, polymer applications, and boiler and cooling tower applications. Our Aquadene™ products have long been industry standards for reduction of iron and manganese and for maintaining lead and copper levels below national requirements. We also provide products for improving water clarity, and Chlorine Dioxide/Sodium Chloride products for water sterilization and odor control. The use of our Chlorine Dioxide programs allows municipalities to meet present and future HAA and THM requirements.



# Clean water problems... clean water solutions



## Pristine Water Solutions Inc. provides solutions to many municipal drinking water problems

"There's hardly anything more important than clean, pure drinking water. All of us at Pristine Water Solutions are proud to contribute to the public trust with our unique products and capabilities."

General Manager  
Pristine Water Solutions Inc.



## Our technical service and support, and research and development capabilities help assure your success

Since impurities in water vary between sites, Pristine Water Solutions Inc. produces a wide variety of formulations to meet the changing requirements in both drinking water systems and boiler and cooling tower systems. We also offer complete engineering/support services including water quality analysis and distribution system evaluation for components such as dispensers, delivery systems, pumps and tanks. Our advanced analytical laboratory will determine chemical impurities (and their precise levels). Then we'll recommend a practical solution based on the best approach for your water system.



For more information visit  
[pristinewatersolutions.com](http://pristinewatersolutions.com)



# Mefiag



## Horizontal disc, cartridge, bag and carbon filter systems



Mefiag and Sethco filters add shine, sheen, and the finishing touch for virtually any plated and surface treated part

Mefiag filter systems utilize horizontal disc technology to provide superior performance in the toughest, most corrosive applications in the plating and metal finishing industries. Our high efficiency, high flow filters allow our customers to improve quality, reduce plating line downtime, increase yields, and lower costs. When suited, Mefiag offers Sethco brand cartridge, bag and carbon treatment filter systems. You'll find Mefiag and Sethco filters and pumps in hundreds of installations around the world – virtually everywhere plating solutions are used for metal and plastic parts.

### New ideas... new opportunities

Mefiag is always looking for ways to provide the best filter for our customers while striving to maintain our own leadership position. Our extra large diameter filter discs and our series of high flow single and double chamber horizontal disc filter systems, with capacities to 30,000 gallons per hour, fills a critical need for many of our existing and potential customers who require high volume filtration.



# Filters for plating solutions to enhance efficiency, increase yields, and ensure environmental compliance

"No matter where you are, chances are you are near a plated or treated part that we helped produce. Mefiag, with operations in the Netherlands, the United States and the People's Republic of China, is a world leader in designing and building high flow horizontal disc, cartridge, bag and carbon filter systems for virtually all metal plating and surface finishing applications."

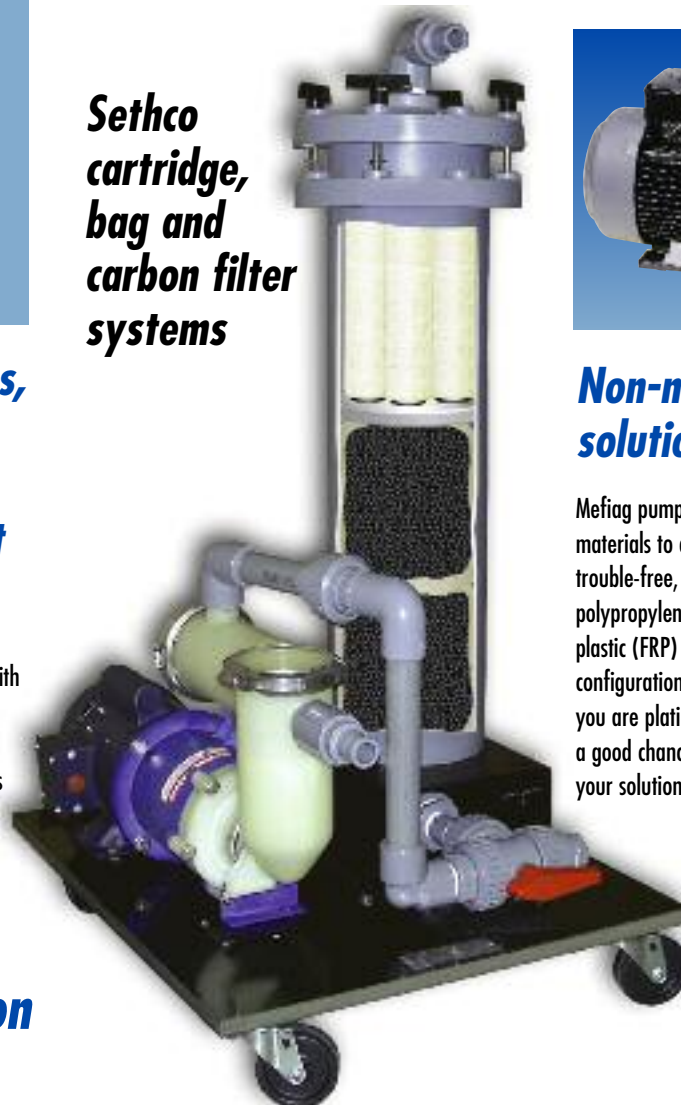
*Managing Director, Mefiag B.V. and Mefiag (Guangzhou) Filter Systems Ltd. and General Manager, Mefiag USA*

## Materials, configurations, and performance parameters to meet your precise requirement

Mefiag and Sethco filters are offered in many different materials and configurations. Their use helps assure the highest quality surface finishes, with resultant higher yields and lower production/processing costs. Mefiag and Sethco filters meet all appropriate industry and government standards and are used throughout all stages of the plating process including parts cleaning, filtering plating solutions, in rinse tanks, and for treating wastewater.

**For more information visit [mefiag.com](http://mefiag.com)**

## Sethco cartridge, bag and carbon filter systems



## Non-metallic pumps... solutions for solutions

Mefiag pumps are constructed of non-metallic materials to eliminate corrosion and provide reliable, trouble-free, long life performance. We offer polypropylene, Kynar, and fiberglass reinforced plastic (FRP) pumps in a wide selection of sizes, configurations, and capacities. No matter what you are plating – or how you are plating it – there's a good chance we have a Mefiag pump solution for your solution.

# Dual/Bio-Reaction

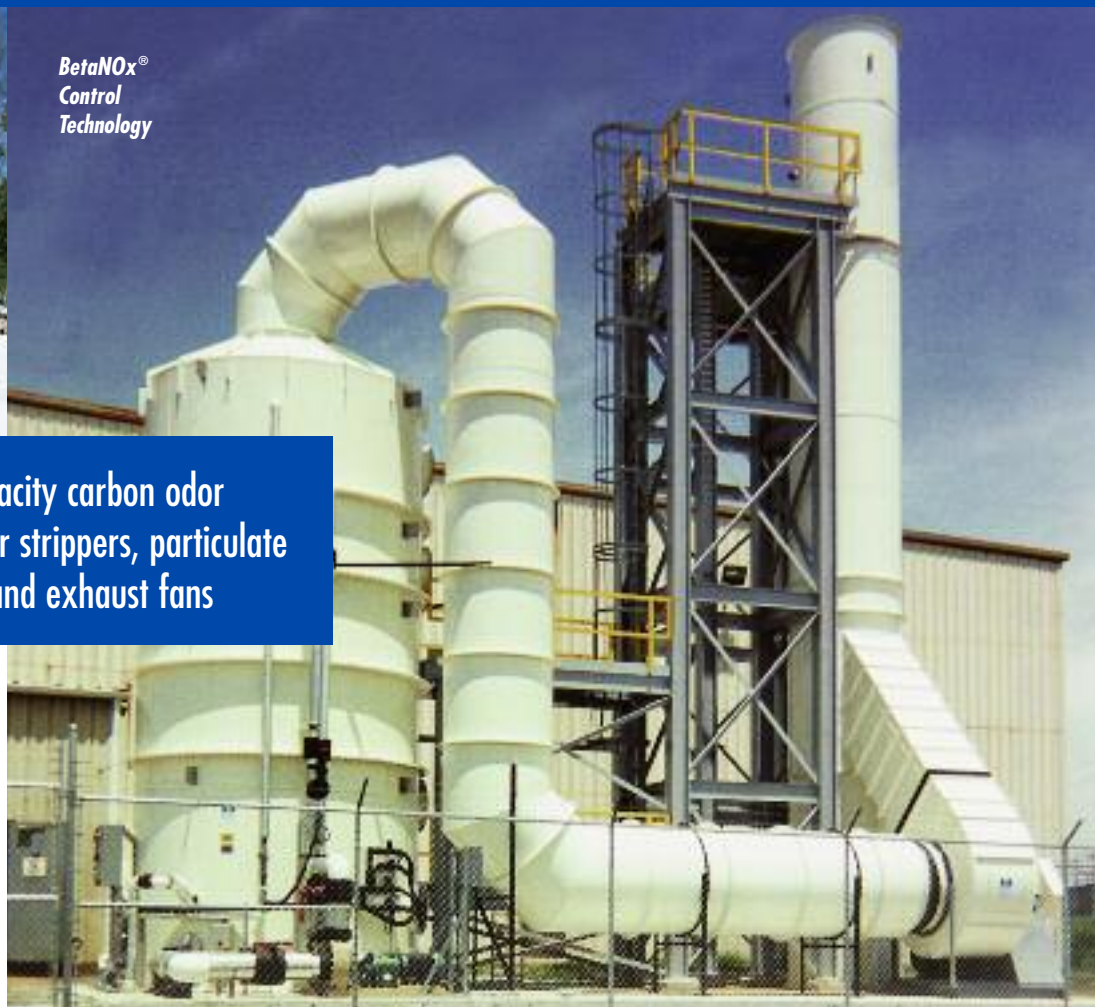


*Products and systems for industrial and municipal quality and odor control*



**Bio-Pro®  
Biotrickling  
Filters**

**BetaNOx®  
Control  
Technology**



Biological, chemical and high capacity carbon odor control systems, gas scrubbers, air strippers, particulate collectors, ducting, hoods, tanks and exhaust fans

**D**ual and Bio-Reaction brand products and systems help eliminate air pollution, water contamination and process odors. We offer complete custom engineered system solutions that incorporate air scrubbers, air strippers, particulate collectors, centrifugal fans, and custom ducting, hoods, tanks, and fabricated specialty thermoplastics.



**Bioscrubber with  
Mixed Flow  
Exhaust Fan**

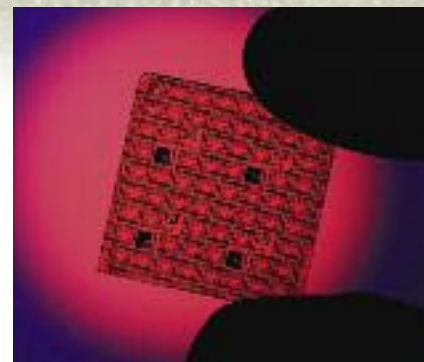


**PTMD Packaged Odor  
Control Systems**

**Specialists in DUALLast®  
unique fiberglass reinforced  
plastic construction**



*Pharmaceutical and Chemical Processing*

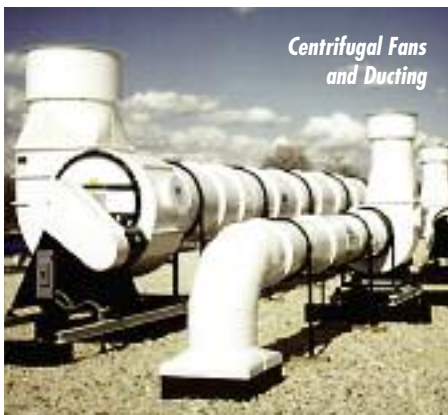


*Printed Circuits and Semiconductor Manufacturing*

# Dual & Bio-Reaction brand products help major industrial and municipal customers meet environmental regulations and enjoy good-neighbor relationships



Metal Finishing



Centrifugal Fans and Ducting



Multi Component SO<sub>2</sub> Scrubber System

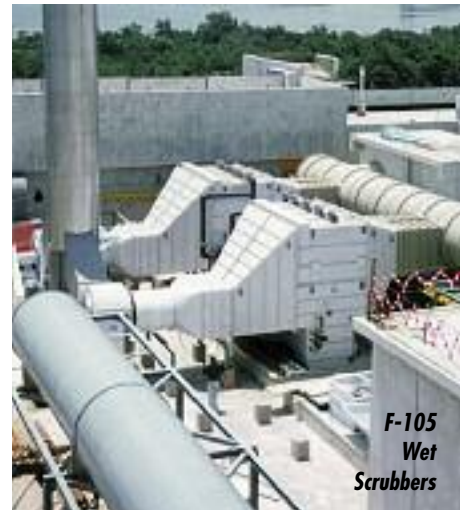
## Fume scrubbers and mist eliminators accommodate virtually all emission applications including:

- Metal finishing and plating
- Wastewater treatment
- Pharmaceuticals
- Food and dairy processing
- Aerospace
- Chemicals and petrochemicals
- Printed circuits and semiconductors
- Battery manufacturing
- Steel pickling

"Since 1964, our Dual and Bio-Reaction brands have provided a complete line of products and proven technologies to industrial and municipal facilities seeking solutions to their air pollution and odor control problems. We do not claim to be number one... we reserve that spot for our customers."

General Manager  
Met-Pro Environmental Air Solutions

Ask about our commitment to providing full service for the life of all air pollution and odor control products, regardless of the manufacturer, through our sister company, Met-Pro Industrial Services Inc.



F-105 Wet Scrubbers

## Hydro-Lance® wet dust collector systems – stop dust in its tracks for legal compliance and assured safety

The Hydro-Lance wet particulate scrubber design eliminates recirculation pumps and there are no moving parts, spray nozzles, or recirculation piping to maintain or replace. Energy consumption is also reduced compared conventional venturi-type systems.



**For more information visit [mpeas.com](http://mpeas.com)**

# Flex-Kleen



**Dust collector products, systems and services**



**Engineered products for process dust control, product recovery, nuisance dust collection and air pollution control**

**F**lex-Kleen brand products have provided engineered solutions for a wide variety of applications and environments for more than 50 years. Our dust collector designs meet the most demanding technical challenges associated with corrosive environments, sanitary conditions, combustible dusts and gases, hygroscopic materials, low bulk density materials, and materials that are under high temperature, high pressure or high vacuum.

Our dust collectors include bin vent filters, welded modules, high pressure and high vacuum units, explosion containment and venting units, cartridge and pleated filters, HEPA filters and cyclones. We also have a full service aftermarket group offering replacement parts and components and are committed to providing full service for the life of your dust collector, no matter the manufacturer, through our sister company, Met-Pro Industrial Services Inc.

**Flex-Kleen brand dust collectors are designed for a wide variety of industrial applications**



Food & Dairy Processing



Pharmaceutical Processing

**"More than 140,000 installed filters and still counting. We know dust collectors better than anyone else. Challenge us with your application."**

*General Manager  
Met-Pro Environmental Air Solutions*



Rock Products Processing



Chemical Processing

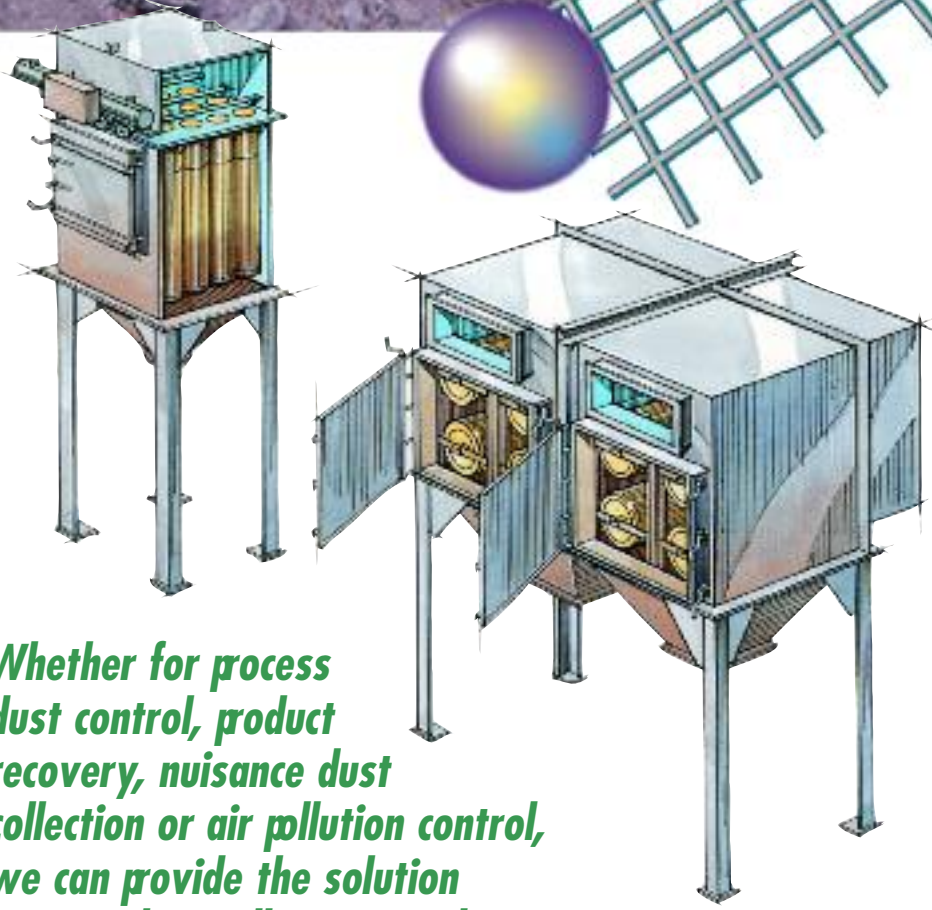


# A leading supplier of dust collector systems worldwide!

**N**o one knows dust better than we do. And we know how to capture it at any stage of the process. With advanced computer aided design (CAD) capability, structural design (STAAD) technology, and an engineering staff with a thorough knowledge of industry codes and standards, we will provide the best solution to each and every application.

## *Solutions, services, and capabilities to assure your success*

We offer decades of experience successfully designing, building and servicing dust collector systems. We offer the most advanced controls with diagnostic capabilities for improved operations and maintenance. We'll serve as your sole source for dust collectors and controls, including rapid replacement parts shipments.



*Whether for process  
dust control, product  
recovery, nuisance dust  
collection or air pollution control,  
we can provide the solution  
to your dust collection needs*

**For more information visit  
[mpeas.com](http://mpeas.com)**



# Systems/Bio-Reaction



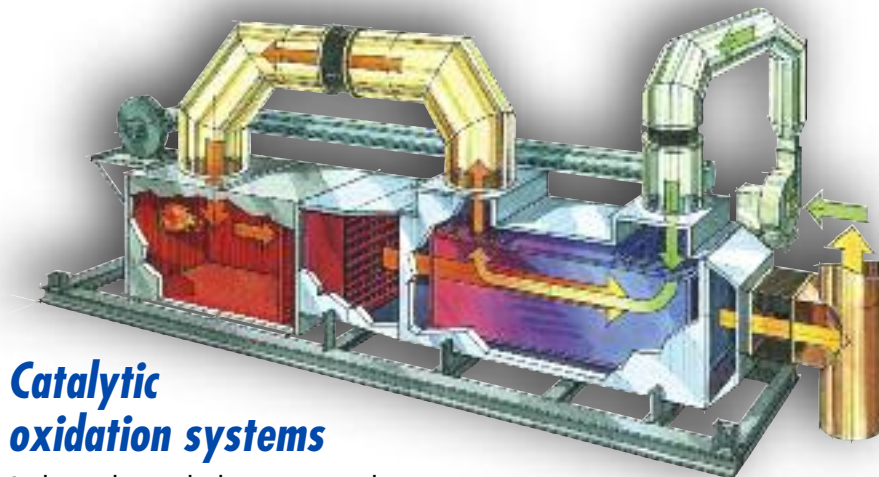
## Advanced oxidation systems for air pollution control



Multi-discipline solutions for removal of VOCs and other hazardous air pollutants

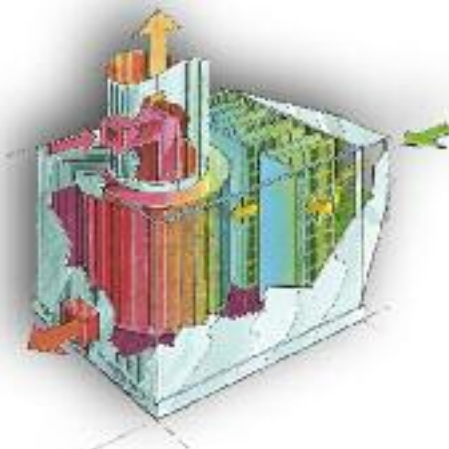
### The highest possible destruction efficiencies for VOC emissions and combustible by-products

Count on Met-Pro Systems and Bio-Reaction brand products to solve your most difficult VOC and HAP removal problems. We design, build, and install job-proven air pollution control systems for volatile organic compounds (VOCs), reactive organic gases, air toxics, and halogenated organic solvents. Our full service capabilities include project design and development. Because we provide virtually any type of thermal, catalytic and bio-oxidation solutions, we are ideally positioned to provide an unbiased technically and economically sound offering. You will also benefit from our years of experience designing and building successful multi-discipline solutions to extremely difficult oxidation problems.



### Catalytic oxidation systems

Catalytic oxidation technology is an extremely cost-effective method of managing solvent emissions. Our modular catalytic oxidation systems enhance design and applications flexibility, and operate with a wide range of air flows to accommodate changing operating conditions. Met-Pro Systems also provides after-market catalyst and can assist with catalyst recycle to help your bottom line.



### VOC concentration systems

Our unique activated carbon or zeolite rotary concentrators are used in applications where a combination of high air volume and low concentration of solvents is present. These VOC concentration systems are small and light for convenient, economical on-site installation. Features include: low operating and maintenance costs; automated controls for ease of operation; and a wide flow range to enhance systems/applications flexibility.

"We provide the widest selection of oxidation system designs available in industry today including regenerative and recuperative thermal oxidizers, catalytic oxidizers, VOC concentration systems, and bio-oxidation systems. Our systems have successfully provided extremely low NO<sub>x</sub>, VOC, and carbon monoxide emissions, while achieving the highest available thermal efficiencies in an economical package."

General Manager  
Met-Pro Environmental Air Solutions

# Application- matched thermal, catalytic and bio-oxidation systems



## **Bio-oxidation systems**

The BIO-PRO® technology has been engineered to meet the needs of systems ranging from 50 ACFM to as large as 500,000 ACFM. In addition to in-vessel designs utilizing FRP and thermo plastic materials, we have installed systems that are constructed of concrete. Concrete systems have been installed both above grade and in-ground. Our engineering and design capabilities provide our customers with the broadest air pollution control options currently available.



## **Thermal oxidation systems**

Thermal oxidation systems operate at high temperatures to combust solvents into water and carbon dioxide. They provide extremely high destruction efficiencies and are ideal for use with most VOC applications.

We also provide complex thermal oxidation systems that include scrubbers, baghouses, heat exchangers, and waste heat boilers.



## **Service and maintenance**

Met-Pro Industrial Services offers an experienced single source for servicing and maintaining all of your air pollution control equipment, regardless of the manufacturer. We will provide the best technical solutions to address the multiple areas of your process.

**For more information  
visit [mpeas.com](http://mpeas.com)**



# Strobic Air Corporation



*Innovative roof exhaust systems for institutional, industrial and government laboratories*



Strobic Air Tri-Stack™ roof exhaust systems eliminate pollution, prevent re-entrainment, reduce odors and drastically cut energy costs

**T**ri-Stack roof exhaust fans are the only fans of their kind exclusively designed for these specialized applications. Since their introduction more than two decades ago, Tri-Stack fans and systems have been installed at hundreds of research laboratories at universities, pharmaceutical, chemical and petrochemical manufacturing facilities. Their outstanding performance characteristics have also made them popular for exhausting hospital/infirmary isolation rooms, and for clean rooms, laboratories and pharmaceutical processing facilities where 100% conditioned makeup air is usually required. In this application Tri-Stack fans can help save thousands and even hundreds of thousands of dollars yearly for heating and cooling costs. New applications for Tri-Stack systems are also being discovered, including odor elimination and re-entrainment prevention for hospital emergency diesel generators, and elimination of neighborhood odors at municipal wastewater and industrial sewerage treatment facilities.



*"Strobic Air provides safe and sustainable life-safety exhaust systems while leading our industry in the development of innovative technologies for improving and expanding our product lines to support the needs of our growing marketplace."*

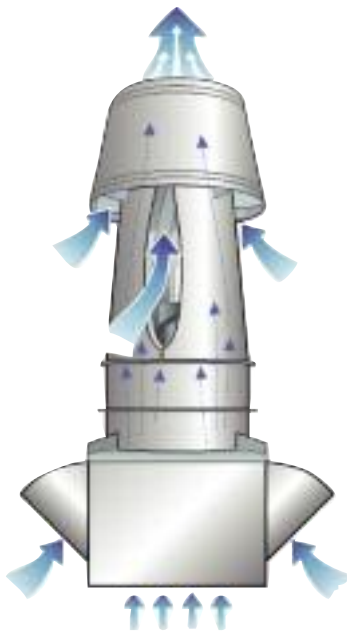
*General Manager  
Strobic Air Corporation*

Tri-Stack fans comply with all appropriate codes and standards, and may also help eliminate possible legal implications for architects, engineers, contractors and building owners with regard to employee health and safety issues resulting from exhaust re-entrainment into the workplace. Tri-Stack fans are designed as direct replacements for conventional centrifugal exhaust fans, and offer substantial operating and cost-saving advantages. Their low profile is aesthetically pleasing and their vibration- and maintenance-free operation helps reduce maintenance costs.





**Tri-Stack mixed flow technology has been setting the trend for safe, quiet, economical roof exhaust for more than two decades**



**Tri-Stack systems operate on the unique principle of mixed flow technology**

Mixed flow impeller-type roof exhaust systems operate on a unique principle of diluting plenum exhaust air with outside air at high discharge velocities, sending a powerful vertical exhaust plume up to 350 feet high. Because they introduce up to 170% of free outside air into the exhaust stream, a substan-

tially greater airflow is possible for a given amount of exhaust without additional horsepower, providing excellent dilution capabilities and greater effective stack heights over conventional centrifugal fans.

**Intelligent lab exhaust system delivers lowest total cost of ownership in the industry**

The patent pending Tri-Stack Smart System™ delivers unprecedented levels of efficiency and control to maintain safe ventilation levels while minimizing facility energy costs and carbon footprint. Its low capital cost and quick return on investment result in the lowest total cost of ownership in the industry.



**Acoustical silencer nozzles...**

**The sound of silence for Tri-Stack fans**

New Strobic Air acoustical silencer nozzles represent another innovative solution recently developed to help Tri-Stack users remain "good neighbors." The

low profile nozzles are aesthetically pleasing, eliminating the perception of tall stacks on a building's roofline while providing high attenuation values to reduce noise levels at the property line.

**Heat recovery systems**

Ventilation heat recovery systems from Strobic Air provide energy conservation on laboratory workstation fume hood exhaust systems. Tri-Stack heat exchanger coils extract exhaust heat for heating or cooling conditioned makeup air to drastically lower energy costs, saving thousands - or hundreds of thousands - of dollars per year.

**Safety design response**

Our safety design response team is also available to help analyze your existing pollution abatement and/or odor control system. We also offer a comprehensive engineering guide which helps reduce system engineering time substantially; full technical support services such as performance and cost comparisons; and, informative presentations on system design, construction, operation and advantages.

**For more information visit [strobicair.com](http://strobicair.com)**

**Corporate Headquarters**  
Harleysville, PA

## **BUSINESS SEGMENTS**

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### **Fluid Handling Technologies**

**Met-Pro Global Pump Solutions**  
Telford, PA/Indianapolis, IN

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### **Filtration/Purification Technologies**

**Keystone Filter**  
Hatfield, PA

**Pristine Water Solutions Inc.**  
Waukegan, IL

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### **Mefiag Filtration Technologies**

**Mefiag**  
Owosso, MI

**Mefiag B.V.**  
Heerenveen, The Netherlands

**Mefiag (Guangzhou) Filter Systems Ltd.**  
Guangzhou, People's Republic of China

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### **Product Recovery/Pollution Control Technologies**

**Met-Pro Environmental Air Solutions**  
Owosso, MI/Glendale Heights, IL/Tualatin, OR/Harleysville, PA

**Met-Pro Industrial Services Inc.**  
Harleysville, PA

**Met-Pro Chile Ltda.**  
Santiago, Chile

**Met-Pro Product Recovery/Pollution Control Technologies Inc.**  
Vaughan, Ontario, Canada

**Strobic Air Corporation**  
Harleysville, PA

Visit the Met-Pro Web site at  
[www.met-pro.com](http://www.met-pro.com)

