



ESSENTIAL Elements

EBARA TECHNOLOGIES INC.

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Does Your Manufacturing Process Use Fluorinated Gases?

Global warming, climate change, carbon footprint, cap-and-trade, greenhouse gas emissions, global warming potential – GWP, carbon dioxide equivalents – CO₂e, EPA, Clean Air Act, CA AB32, regulations, reporting...What does this all mean?

New regulations from the United States Federal Government's Environmental Protection Agency and states like California's Air Resources Board are mandating new regulations for reporting and reducing greenhouse gas emissions from semiconductor or related devices operations that use fluorinated gases. These regulations regarding global warming gases are slated to take effect in 2010.

EBARA's expert staff is well informed about the social and political ramifications of climate change and how it impacts your future manufacturing processes. EBARA develops and brings to market comprehensive exhaust management solutions such as point-of-use abatement technologies. These technologies address the destruction of perfluorocarbons (PFC) used in the production of semiconductors, thin films materials and photovoltaic cell manufacturing. With the focus on energy conservation, EBARA offers exhaust solutions for today's hi-tech companies, ranging from robust energy efficient vacuum pumps to point-of-use abatement technologies.

Tetrafluoromethane – CF₄
Hexafluoroethane – C₂F₆
Octafluoropropane – C₃F₈
Octafluorocyclopentene – C₅F₈
Trifluoromethane – CHF₃
Difluoromethane – CH₂F₂
Octafluorocyclobutane – c-C₄F₈
Carbon Fluoride Oxide – COF₂
Nitrogen Trifluoride – NF₃
Sulfur Hexafluoride – SF₆



EBARA CORPORATION, committed to becoming a Comprehensive Environmental Engineering Enterprise, has adopted a corporate philosophy that stresses “extensive contribution to society by providing superior technologies and services related to water, air, and environment.” Using a wealth of technologies accumulated to date, we are harnessing the resources of the entire Corporation to address important environmental issues through relentless research and development activities and the commercialization of leading-edge technologies.

— Corporate Philosophy

The time is now to address your company's PFC abatement strategy and EBARA is ready to assist with our expert staff, technical products and services.

EBARA has one of the largest service and support organizations in the industry.

EBARAClean Outsourced Parts Cleaning Service

EBARAClean is an enhanced outsourced parts cleaning and assembly solution that exists to extend parts use and performance with superior cost savings. EBARA offers a wide range of parts cleaning capabilities ranging from media blasting to ultrasonic and ThermaGas® cleaning. The fully customizable EBARAClean kit management system enables our customers to extend the life of their parts, create a more predictable PM schedule and most importantly cut operation costs by refurbishing and recycling existing parts and assemblies.

The EBARAClean system encompasses all aspects of cleaning, coating and refurbishment to inventory and cost control. EBARA offers fast service response time as well as pickup and delivery services to reduce your inventory without any worry of part shortages during the manufacturing process.

EBARA's ISO Quality Assurance program guarantees your parts will be treated with the utmost care providing a complete critical dimension report that meets your needs. Our web based part status reporting provides you with up to the minute tracking and history for all of your parts during the cleaning process.

EBARAClean provides fast, consistent cleaning services. EBARA Technologies is committed to providing a total sub-fab solution based on servicing your products, enabling the end-user to focus on what you do best – manufacturing!

- Chemical Cleaning, Stripping, Solvents Cleaning
- Media Blasting (Parts surface texturing)
- EBARAClean Kit Management System
- In house Machining and Welding
- Hermetically Sealed Packaging
- Nitrogen Purge Oven Drying
- DI Water Ultrasonic cleaning
- Local Pickup & Delivery
- Large Parts Capabilities
- Part Surface Treatments
- Copper Segregation
- Decontamination
- CO₂ cleaning
- ThermaGas®

EMT Series

The EMT Series offers five major types of turbomolecular pumps – temperature controlled, corrosion resistant, ultra-low vibration, radiation resistant, and ultra-high vacuum. The EMT Series pumps feature a wide pressure range with a maximum pressure up to 3 Torr.



- Full Magnetic Bearing
- Installation In Any Orientation
- High Throughput
- Quick Starts and Stops
- Compact Size
- Serial Communication
- Automatic Calibration
- Rotational Speed Control
- Vibration Free
- Air or Water Cooled



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Come See Us at:

2009 Society of Vacuum
 Coaters (SVC) Show
 Santa Clara Convention Center
 Santa Clara, CA
 May 11-12, 2009

2009 SESA Show
 Hilton Scottsdale
 Scottsdale, AZ
 May 19, 2009

2009 New Mexico
 AVS Show
 Embassy Suites
 Albuquerque, NM
 May 19, 2009

2009 New England
 AVS Show
 Burlington Marriott
 Burlington, MA
 June 8, 2009



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