



# ESSENTIAL Elements

EBARA TECHNOLOGIES INC.

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## Reduce Your Company's Carbon Footprint and Save Money

The cost for energy is drastically increasing and utility companies are passing this increase on to their customers. The need to reduce energy is a major focus for sustainability. Semiconductor manufacturers employ large numbers of aging dry vacuum pumps. Depending on the process, the vacuum system alone can contribute up to 60% of the total electrical demand for a process tool. Upgrading the vacuum pumps can reduce the fab's energy consumption and save you money.

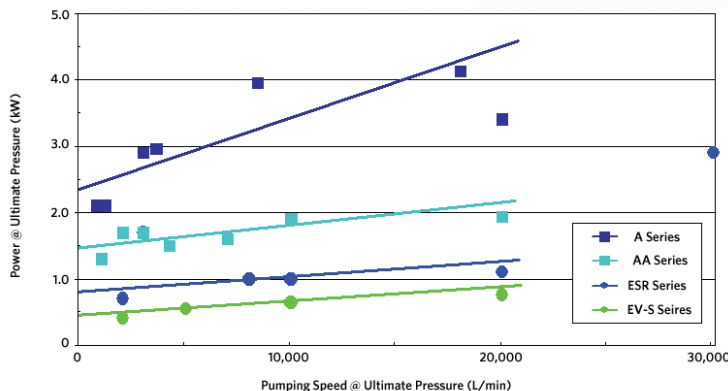
A new more efficient design has been developed which radically reduces the power required by dry vacuum pumps. By improving motor efficiencies, increasing the number of compression stages, enhancing motor controls and adding intelligent communications – *the energy consumption from dry vacuum pumps is significantly reduced* – resulting in significantly lower operating costs and improved profitability.

Several significant benefits can be obtained when manufacturers make the switch to using energy efficient dry vacuum pumps utilizing these latest solutions. A few of the benefits you can achieve when you use energy efficient dry vacuum pumps in your operation:

- Significant decreases in a manufacturer's Cost of Ownership (CoO) increasing profitability
- Provide long-term cost control savings through significant reductions in energy use
- Saves sub-fab floor space which can free up significant operational capacity
- Significantly reduced nitrogen and cooling water consumption – increasing profitability

As an added bonus - utility companies are providing manufacturers with incentives to reduce energy consumption. Rebates which can ultimately help increase a manufacturer's Return on Investment (ROI).

EBARA has strived tirelessly to decrease manufactures utility consumption and costs since 1991. EBARA is committed



to developing and supplying worldwide markets with dry pumps that achieve the smallest footprint possible and reduce carbon footprint by adopting the latest in energy saving technologies that meet or exceed customer requirements.

Contact Ebara to learn how the most Energy Efficient Dry Vacuum Pump on the market can help your company save today.

## The New Green is EBARA Blue. Global Service/Local Providers

### EBARA Technologies Introduces the EV-S Series Dry Vacuum Pump



The EV-S Series pumps line compliments EBARA's existing offering of Dry Vacuum pump systems. The EV-S Series pumps are an extreme power and footprint savings solution to your light duty pumping needs. EBARA's EV-S Series Dry Vacuum pumps offer four models, the EV-S20, EV-S50, EV-S100 and EV-S200. These Energy Savings Vacuum pumps provide pumping speeds from 58 CFM to 710 CFM. A pump idle mode allows the tool to send a remotely controlled signal to the save extra power.

EBARA offers options on all EV-S pumps. A Nitrogen purging option dilutes hazardous gases to safe levels and a Niresist (Nickel alloy) option helps prevent corrosion.

EBARA has responded to the market place demand for greater energy savings while decreasing the pump footprint and weight.

### The EBARA Service - Meet the Sacramento Depot Team

The Service Depot team is responsible for remanufacturing Dry, Turbomolecular, Scroll and Wet pumps in the state-of-the-art service center in Sacramento. Customers have come to expect exceptional quality when they send their products back for repair, which is due in part to the employees' attention to detail at each stage of the remanufacturing process.

In addition to the ability to rebuild EBARA products, this team has been a critical component of our expansion into remanufacturing of non EBARA products as well. These added capabilities provide the customer a single source to send their products without having to manage multiple vendors.

This state-of-the-art service center is "paperless" and supported by an enterprise system capable of issuing a Return Materials Authorization (RMA) Number which will allows you to track the item in repair from receiving thorough disassembly, decontamination & cleaning, module assembly, system assembly, leak check & performance test and finally shipping in real time from the internet.



With over 100 years of service experience EBARA's Sacramento Service depot is eagerly awaiting their next remanufacturing project.

(back row from left to right): Sisavath Phaengduang, Vladimir Kasyanchik, Bounthong Keosodsay, Hector Guerrero, Sergey Yatchuk, Norma Lozada, Sammie Davis, Bill Bounmak, Brian Nguyen, Soukhy Phienemanh (front row from left to right): Ilya Yagolnikov, Anatoliy Kasyanchik, and Sone Xaynhalath



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