Elmo Rietschle
An Ingersoll Rand Business



ELMO RIETSCHLE HELPS ELECTRONICS PRODUCER

expand operations and reduce energy consumption

CUSTOMER

Electronics Manufacturer

LOCATION

Vietnam

SOLUTION & APPLICATION

Elmo Rietschle oil sealed screw vacuum pump.
Central vacuum system

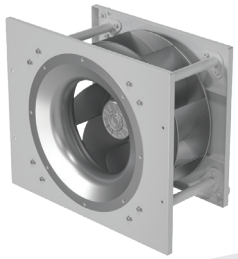
Ensuring that your equipment provides the optimal performance and efficiency is of the utmost importance in any manufacturing application, and every plant manager is at some point faced with the challenge of implementing a new technological solution in order to streamline production processes. Investment in the latest technology to upgrade your production machinery or expand your operation usually requires a significant initial outlay; however, if done properly, it always brings the anticipated long-term benefits. When a major Asian electronics producer was planning to launch a new production line at their manufacturing plant in Vietnam, they came to the conclusion that the factory's existing vacuum system no longer offered sufficient flow capacity to support the facility's growing production activity. The company turned to AVA, an air control engineering and mechanical engineering solutions provider and the authorized distributor of Elmo Rietschle products in the Vietnamese market.

House vacuum plays an important role in the electronics industry where it is used for holding, lifting and packaging, among other material handling processes. Just like all automation processes that utilize process air, these operations require the use of reliable and highly efficient pumps able to deliver the right vacuum and flow levels, while ensuring energy savings. Low maintenance costs and simple installation are other key factors that electronics manufacturers take into account when planning the purchase of new vacuum equipment. When the customer approached AVA, they were using a central vacuum system consisting of two liquid ring pumps offering a total flow capacity of 750 m^3/h. Having analyzed the company's process needs, AVA experts suggested

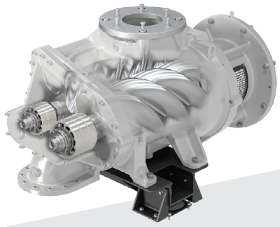
replacing those pumps with one SVT 1500 Oil-Lubricated Screw Vacuum Pump from Elmo Rietschle, a leading global provider of pressure and vacuum for numerous industries. The suggested solution would not only help increase the system's pumping capabilities, but it would also make it much more cost-efficient.

Chipping Away at Total Ownership Costs

The most recent addition to Elmo Rietschle's S-Series of Oil-Sealed Screw Vacuum Pumps, the SVT range represents the latest evolution in screw design and has been developed to improve the overall performance of this tried and tested technology. The SVT pumps are the best choice for efficiency and reliability in central vacuum applications, offering design features such as a premium airend that enables a wide flow range, a direct coupled motor, two thermal separation zones, an advanced frequency converter and an over-sized internal inlet filter.



Inlet Control & Throttling



High-Quality Airend

Thanks to the use of variable speed drive and accurate control, the newly launched SVT Screw Vacuum Pumps from Elmo Rietschle consume from 30% to 50% less energy than their liquid ring vacuum pump alternatives.

30-50% **Less energy consumed than liquid ring vacuum pump alternatives**

On top of this, these pumps are aircooled for all models and have watercooled options for certain models, and are intuitive, truly plug and play machines. The pumps' integrated inlet filter and long-life patented 3-stage oil separation design, combined with easy access to all key parts, help to reduce their maintainance requirements to the bare minimum. After the SVT-1500 model selected by this electronics manufacturer offers a maximum pumping speed of 1,390 m^3/h. The cost-effective installation of the pump at the company's production facility in Vietnam has allowed the customer to replace an aged and inefficient central vacuum system with a new one that delivers the required flow capacity, while also providing a number of other key advantages and generating considerable savings.

By making the most of Elmo Rietschle's expertise in pressure and vacuum technologies and AVA's extensive experience in providing the right pump solutions to their customers, the electronics manufacturer has ensured that the annual energy costs related to the operation of their Vietnamese plant's central vacuum system will decrease by at least 20%. The company is already considering buying more Elmo Rietschle vacuum products for the plant in question in the mid- to long-term perspective as it plans the site's further expansion.

20% **Decrease in annual energy costs relating to central vacuum operation**

