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## Press Release

### Innovation in Vacuum

#### Introducing DRYVAC

**Oerlikon Leybold Vacuum is proud to announce the arrival of their new dry screw technology pump series DRYVAC. Such innovations of vacuum technology will contribute to the effective automation of solar panel mass production and enhance profitability.**

Plants for solar module manufacturing have to make use of all means to cut costs effectively. The changing legal aspects surrounding solar feed-in taxes increase the pressure on quality and costs along the whole manufacturing chain.

Producers of thin-film silicon solar cells have high demands on the performance of the manufacturing plants and the system components within. The new vacuum pump series DRYVAC from Oerlikon Leybold Vacuum has been designed to fit and to increase the present and the future technological advantages for these demanding production and process requirements.

This applies also to the operating costs. These dry screw pumps can save up to \$4,500AUD per year compared to similar pumps with identical suction volume; depending on operating parameters. This helps the producers of thin film silicon solar modules to lower operating costs and increase their profits.

#### Process safety creates investment security

The present market situation has once more increased the demands on plant availability and requirements. Developing the DRYVAC, these requirements were taken into consideration, especially with regard to reliability. These pumps are ideal for demanding load lock applications and are resistant against dust, vapours and particles. They effectively pump light gases, but also toxic and corrosive gases such as NF<sub>3</sub> gases used in the solar industry to flush coating chambers.

#### Intelligent Communication

Relevant pump parameters of the DRYVAC can be visualised during operation via a touch screen monitor. The „i“-variants with integrated self-control can communicate via data exchange between pump and plant controls using various interfaces. Of course, the touch-panel can also be used. For pump control, there are multiple sensors such as temperature control with warning functions, and a pressure sensor for monitoring the exhaust pressure. Moreover, the data of the integrated frequency converter can also be visualised.

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## Reduced foot print at the production line

The DRYVAC combines the screw technology pumping principle with a very compact design – offering additional advantages to the customer. In the standard vertical combination with a RUVAC Roots pump, the footprint at the production line is minimised. In addition, the pump combination can be executed horizontally which minimises the height of the system.

An effective water cooling concept with optimised cooling canal design keeps the pump and motor temperature low, thus enhances lifetime performance. If needed, the motor can be exchanged directly at the production line. Inspection and cleaning of the channels are simple to execute as there are minimal residues due to the innovative cooling channel design. In addition, as a dry pump, there is no risk of oil contamination, which further reduces service and operating costs.

## Flexibility due to modular design

One answer to the various demands of solar manufacturing is the modular design of the DRYVAC series, offering customised and effective solutions. Oerlikon Leybold Vacuum not only offers components, but also standardised application oriented solutions; and of course fully customer specific vacuum technology solutions.

Solar energy will only become cost competitive due to intensive technological progress. Decisive factors for further investment into solar technology will be cost and quality. Vacuum technology innovations such as the DRYVAC line of Oerlikon Leybold Vacuum combine proven technology with innovative features and therefore contribute effectively to improving production parameters.

*Oerlikon is among the world's most successful industrial high-tech companies focusing on machine and systems engineering. Oerlikon stands for leading industrial solutions and cutting-edge technology in textile production, thin-film solar, thin film coating, propulsion, vacuum and solar technology, as well as Advanced Technology. As a company with Swiss roots, over 150 years of business tradition and approx. 16,000 employees at 157 locations in 36 countries, Oerlikon has evolved into a global player. The group is ranked first or second in each of its respective market. Oerlikon Leybold Vacuum offers a broad range of advanced vacuum solutions for use in manufacturing and analytical processes, as well as for research purposes. The Segment's core capabilities centre on the development of application and customer specific systems for the creation of vacuums and extraction of processing gases. Field of application is the semiconductor industry, thin films and data storage, analytical instruments and the classic industrial processes. JAVAC Pty Ltd is the exclusive Australian and New Zealand agent for all Oerlikon Leybold products.*

Vacuum &  
Refrigeration  
Process  
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