



**Blake & Pendleton**

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## Vacuum Pumps

B&P Partners with Dekker Vacuum

### Blake & Pendleton Delivers Vacuum!

There are many excellent sayings in the vacuum technology business. The most pertinent is that when you pay for vacuum, you are paying for nothing. The more nothing you want, the more you have to pay! This is true on several levels but is most significant in terms of capital cost and energy cost.



**Sullair VS-16 Rotary Screw Vacuum Pump**

Vacuum pumps go hand-in-hand with air compressors in many industries and are used to support production machinery and process equipment. Vacuum pumps are applied in many unique applications for holding, transporting, processing and forming products or in-process materials. While Blake & Pendleton is renowned for supplying outstanding Sullair air compressors, air system accessories and automation products, we are also very much involved in supporting vacuum pumps, vacuum accessories and solving vacuum application issues. Last month Blake & Pendleton reached an agreement with Dekker Vacuum Technologies to supply liquid ring and rotary vane vacuum pumps in the southeastern United States along with our flagship Sullair VS series rotary screw vacuum pumps. We now have solutions for all your vacuum applications and we can backup our products

with in-house expertise.

We have supplied and supported Sullair VS series rotary screw vacuum pumps for over 20 years, essentially since their inception. Sullair rotary screw vacuum pumps have performed spectacularly in demanding industrial, process and medical applications. Based on rotary screw compressor technology, these vacuum pumps provide high capacity and very long service life – typically over 20 years in most applications. There are 16 models available from 5 horsepower to 200 horsepower (78 ACFM to 3,095 ACFM) and all are stand-alone packages equipped with inlet filters, modulating inlet valves for process control, instrumentation and full electrical controls. These vacuum pumps have been used successfully in applications such as Printing, Electronics, Woodworking, Food Processing, Medical, Pharmaceutical, Plastics and General Industrial.

New to Blake & Pendleton are Dekker Vacuum Technologies liquid ring vacuum pumps in water sealed and oil-sealed package designs. Liquid ring vacuum pumps are used in many of the same applications as rotary screw pumps as well as in more stringent applications such as Pulp & Paper, Food Process, Chemical Process, Power Generation, Mining, Wastewater and Soil Remediation. Known for quiet operation and durability, these pumps will also



provide reliable service for many years. Dekker liquid ring products range in size from fractional horsepower to thousands of horsepower and can be supplied with a variety of sealing fluids that will be compatible with process materials. Along with the ability to accurately size pumps for standard air applications, we also have the expertise to design packages for complex processes such as vapor recovery, vacuum filtration and vacuum distillation.

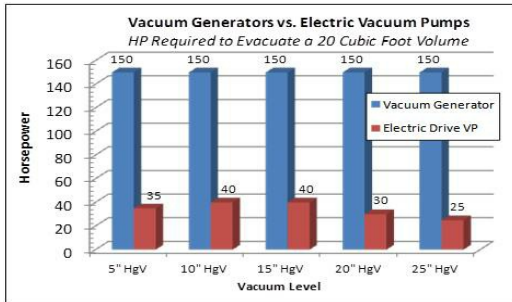


**Dekker Vacuum Pumps in Food Processing**

In addition to rotary screw and liquid ring vacuum pumps, we now offer the Dekker DuraVane line of rotary vane vacuum pumps in both lubricated and dry designs. These are excellent point-of-use supply pumps. Lubricated DuraVane vacuum pumps are designed to be compact, air-cooled and quiet. They are available in capacity sizes of 2 ACFM to 700 ACFM. Dry pumps, which have an oil-free pumping chamber, are available in sizes from 2 ACFM to 100 ACFM. We also offer several high vacuum models that can attain vacuum

levels of 0.004 torr ultimate vacuum (29.9198" HgV!!). So, no matter what your application, operating vacuum level or system complexity, we have the products and can assist you in optimizing your vacuum supply system and help you eliminate pump issues.

There is significant energy savings potential by evaluating and correcting inefficient vacuum applications. After compressed air, vacuum is the next big opportunity to reduce site energy costs. One easy opportunity is to combine numerous point-of-use vacuum pumps into a single central vacuum system with 100% back-up. This project will eliminate the noise, heat and oil mist contamination from individual vacuum pumps on the production floor and allow you to supply reliable vacuum to production applications at a much lower cost. Typically, low cost PVC or extruded aluminum headers and drop legs can be used to distribute vacuum to each location and there is usually a significant maintenance savings by eliminating the rebuilds or repairs to multiple point-of-use vacuum pumps. Historically, central systems have been very reliable and in many cases can be located near the compressed air supply system which eases installation costs on utilities supply.



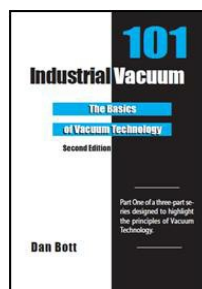
Another energy savings opportunity are venturi vacuum pumps, also called compressed air vacuum generators. These devices use compressed air to generate vacuum and are one of the most inefficient methods of producing vacuum. They are used extensively in industry and can be found in nearly all manufacturing sectors. Reduce energy consumption from these devices by replacing them with electric drive vacuum pumps. Retrofits such as these can reduce energy consumption by 80% and can dramatically reduce demand on your compressed air systems. We also have extensive experience optimizing vacuum systems

in dozens of other applications including CNC Routing, Plastics Thermoforming, Food Packaging, Paper Converting, Medical and Pharmaceutical.

It is very common for vacuum pumps to be oversized for their respective applications. This is the outcome of compensating for flow restrictions through filters, valves, supply headers and drop legs to production equipment. Whatever the reason, the result is more on-line horsepower than is necessary. If a process requires 21" HgV and the vacuum pump must operate at 25" HgV to compensate for flow restrictions, there is 1.8 times more capacity required than if the restrictions were not present. In this case, there is a 40% to 60% energy reduction opportunity by eliminating the flow restrictions. Plus there is the additional capital cost of installing the larger-than-necessary vacuum pump.

Properly applying vacuum pumps to manufacturing and process applications requires specialized knowledge and expertise. Since there is the potential for process contamination to be part of the incoming air stream, it is important to take the correct precautions to protect the vacuum pump. There is a delicate balance between adequate vacuum supply, proper pump operation and energy savings. Like our compressed air audits, we perform vacuum audits that will provide you with a roadmap on how to optimize your vacuum supply system, increase system reliability, reduce maintenance intensity and eliminate superfluous energy costs. Note that there is no way to attain perfect vacuum here on earth. However, the less money you spend on a vacuum gauge the more likely it is that you *will* get perfect vacuum!

Want to learn more about more effectively applying your vacuum pumps? Call us for a site visit or get a copy of *Industrial Vacuum 101*. This primer on vacuum technology provides you with all the basics along with tips on pump installations and energy savings.



Order Book Here - <https://www.createspace.com/3686303>

Need Help with Vacuum?

**Get Help Now**

**Blake & Pendleton** is the southeast's premier supplier of compressed air system solutions. Our products and services include:

- Air Compressors, Dryers, Filters and System Accessories.
- Automation Systems, Compressed Air System Energy Audits.
- Vacuum Pumps, Filters, Vacuum System Audits.
- Low Pressure Compressors, Blowers & Systems.
- Servicing All Brands and Types of Compressors.
- Leak Detection Services.
- Aluminum Pipe Sales & Installation.

For more details on our company and how we can help you achieve your systems objectives, visit [www.blakeandpendleton.com](http://www.blakeandpendleton.com).

For automation products, audits and systems information visit us at [www.izsystems.com](http://www.izsystems.com).

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