

Variable Speed Drive Air Compressors: **A Smart Investment That Pays For Itself**

With so many great uses for compressed air, it can be easy to overlook a basic fact: compressed air is a *manufactured product*. Making it costs money, and you pay for all the compressed air you produce, even air blown off used to regulate pressure. Anything that prevents waste saves you money.

Many people are surprised to learn that the biggest single cost in making compressed air is not the compressor. It's *energy*. The annual cost for electrical power on a fully loaded compressor often equals the purchase price of the compressor itself. And over the working life of a typical compressed air system, 75% of the total cost to own and operate a compressed air system is energy.

Ideally, businesses that use compressed air would minimize cost by producing only the volume of compressed air required for their operation, but compressed air systems are usually oversized for the application they support. That is, they produce the *maximum* amount that may be needed to rather than the *actual* amount that is needed at any given time. That's not very efficient.

Is there a way to improve efficiency by only producing compressed air as it's demanded? **Yes.** A Variable Speed Drive air compressor varies the production of compressed air, continually and automatically, to meet the user's actual ongoing air requirement.

Because a Variable Speed Drive compressor matches production of compressed air to demand, less power is consumed than with a fixed drive compressor running at constant output. Compared to a fixed drive compressor sized for the same application, a Variable Speed Drive compressor consumes about **35% less power**.

Variable Speed Drive compressors are available as complete systems including all the components required to produce clean, dry, high quality compressed air. Integrated systems reduce installation and operation costs, and eliminate the potential for air leaks and pressure drops to further reduce energy consumption.

Is **your** process a good candidate for a Variable Speed Drive air compressor? Chances are, it is. Today, more than 90% of all compressor applications are high potential candidates for Variable Speed Drive compressors.

Variable Speed Drive air compressors improve efficiency so much that the higher purchase price is recovered through energy savings – often within a matter of months – and continues to pay returns throughout the life of the compressor. Simply put, the superior energy efficiency of a Variable Speed Drive compressor is a smart investment that pays for itself, over and over.

Variable Speed Drive Advantages

Superior Technology:

Variable Speed Drive technology provides energy efficiency superior to all other control technologies available today in air compressor applications.

Cost Savings:

Variable Speed Drive compressors consume up to 35% less energy than fixed speed compressors sized for the same application.

Production Performance:

Variable Speed Drive compressors vary their output – continually and automatically – to precisely match the demand for air.

Environmental Stewardship:

Reducing the demand for power helps cut greenhouse gas emissions that contribute to global warming.

Smart Investment:

Investing in Variable Speed Drive pays for itself – often in just months – through significantly lower energy costs.