

AIR SYSTEMS ADVANTAGE

APRIL, 2006



Gardner Denver

VS Series

Variable Speed Drive Compressors

Smarter Solutions For Your Complex Needs

The Smarter Solution: Efficient, Reliable, Flexible...Unmistakable

The VS Series is a complete, revolutionary compressor line that is a Smarter Solution to your Complex Needs. The efficiency limitations of competitive variable speed drive compressors have been eliminated to establish a new standard in this area. The flexibility of this line exceeds that of any other compressor. This means stable pressure in the plant and maximum productivity. Finally, the VS Series variable speed drive compressor is so reliable it is backed by the best in the business.



Efficiency-Delivering the Lowest Possible Electrical Cost

The VS Series provides efficiency everywhere—full load, part load, no load.

Typical VSD compressors are not designed to maximize performance. Most manufacturers simply adapt their current products to a variable speed drive and motor. The VS Series products are specifically designed to obtain the greatest efficiency across the entire operating range.

Unlimited Start/Stop Operation

Air ends Optimized for Variable Speed Operation Gardner Denver invested millions of dollars to develop new air ends and new rotor profiles for the specific purpose of maximizing efficiency in variable speed. When air is not needed VS Series compressors stop running WITHOUT venting air you've already paid to compress. Thus, no power is used when no air is needed. When air demand returns, these compressors "soft" start against a pressure load. The result—energy consumption is kept to absolute minimum.

Designed for Minimum Pressure Drop

For every 2 PSIG of pressure drop through a compressor package an additional 1% of power is consumed. That's why every area on these compressors was designed so that air flows with the least possible restriction.

**PLEASE
CONTACT**

**MID IOWA TOOLS
(319-366-8363)**

**FOR MORE
INFORMATION ON**

**THIS
EXCITING
PRODUCT
OFFERING.**

The Efficiency Foundation-A Matched Motor, Drive and Air End

We started with an air end and rotor profile design that offers industry leading turndown and performance. We partnered with an industry leader to develop a perfectly matched motor and variable speed drive to work with our air end for optimum efficiency and turndown capability. VS-Series models are direct drive, so there are no efficiency losses from belts.

Gardner Denver

Flexibility-To Meet Varying Compressed Air Demands

Shift-to-shift, weekday-to-weekend, or season-to-season... we offer the widest turndown range in the industry. In other words, we have a greater capability to handle variable air demand requirements.

Selectable pressure from 70–175 PSIG at the touch of a button.

Quick response to pressure changes that maintains target pressure within +/- 1 PSI. This provides stable plant pressure resulting in higher productivity.

Optional integrated dryer through the 70 kW model allows compact, space-saving installation.

Super Low Sound

All VS models are enclosed for quiet, environmentally-friendly and employee-friendly operation.

Serviceability

Great attention was given during the design of the VS line to ensure that our compressors are easy to service and maintain.



Air ends Optimized for Variable Speed Operation

Gardner Denver invested heavily to develop new air ends and new rotor profiles for the specific purpose of maximizing efficiency in variable speed compressors.

Designed for Reliability

We used a “clean sheet of paper” design approach, with all components carefully selected and tested for their specific performance and purpose.

The VS Series design incorporates smart injection technology which communicates with the AirSmart™ controller to maintain the discharge temperature of the compressor above the dew point (based on the ambient temperature of the operating environment) to prevent condensate from forming in the lubricant. Smart!

Gardner Denver’s integrated Tempest design through the 70 kW model eliminates leak points through smart, efficient, latest technology construction.

A Warranty Like No Other

In simple terms, VS Series compressors have a best in class warranty. A five-year warranty is available for the drive motor, air end, variable frequency drive, controller and more. With regular lubricant sampling and use of OEM parts & lubricant you are guaranteed to have a compressor that exceeds your reliability expectations.

Serviceable Yet Compact Footprint

Our entire VS line was designed with a compact footprint for space-saving, money-saving installation.

Support Network

MID IOWA TOOLS has factory trained service personnel available whenever needed to keep your compressors in top form. We are committed to stocking components to support your compressed air system needs.

Gardner Denver

The AirSmart™ Controller



Simplicity

The AirSmart Controller™ was designed to make the operators' interface with the variable speed drive transparent. You don't need to be an expert on variable speed drives to operate our compressor.

The controller automatically adjusts the compressor performance to meet your changing air system demands—saving you energy dollars.

Changing the discharge pressure is as easy as pressing a button. No longer is there a need for a new machine when your pressure demands change.

Two-Stage Variable Speed Drive Compressors

For the ultimate in energy efficiency during part load applications take a look at the Gardner two-stage VST Series Compressors.

Air Treatment Equipment

Gardner Denver carries a full line of dryers, filters, drains and separators to meet your full needs.

Advanced Display

The controller has a four line display with menus and tactile buttons for easy navigation. Two lines display operating information such as pressure, temperature, operating hours, etc. while the other two lines display advisory messages, shutdown messages, recommended part numbers and service contact information.

Contact your

MID IOWA TOOLS Sales Engineer

for more information regarding

Gardner Denver Products.

MID IOWA TOOLS

3350 SQUARE D DRIVE S. W.

CEDAR RAPIDS, IA 52404

PHONE 319-366-8363

FAX 319-366-8870

WWW.MIDIOWATOOLS.COM