

# Instrument Air Compressor System

RK-5VSD-175 Variable Speed Drive Rotary Compressor



**Pneutech**  
Efficiency Under Pressure

*For Gas & Oil Field  
Applications*



## Features & Benefits

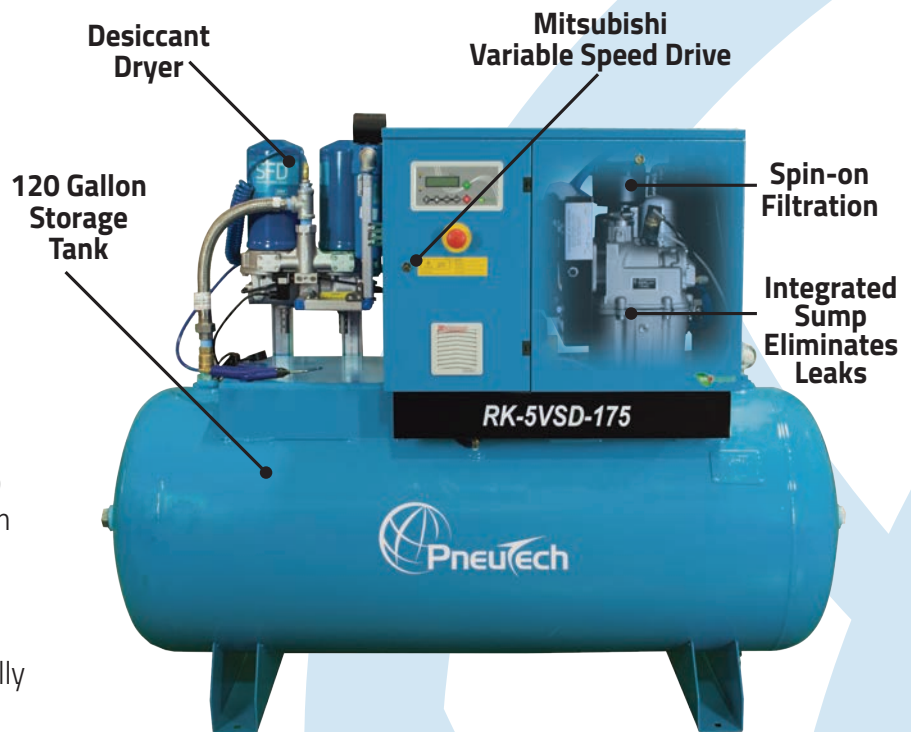
# Instrument Air Compressor System RK-5VSD-175

17cfm at 175psi  
with -20° dew point

PneuTech offers this unique single-phase, highly efficient, rotary screw compressor to the Gas & Oil industry. When your operation converts from pneumatic control systems actuated by natural gas to compressed instrument air systems, it is the source of substantial cost savings. ROI is quick, usually within one year and this conversion is the single most significant source of methane emission reduction that can be implemented.

### A Turn-Key, Single-Phase, Robust Tank-Mounted System Designed And Packaged Specifically For You

- Substantially reduces emissions of methane and increases revenue.
- Offers potential savings and increases operational efficiencies through the extension of the life cycle of system equipment. When controlled by natural gas, a system can accumulate sulfur and various acid gases - thus causing damage to valves and internal components.
- The remote location and facilities of most gas and oil operations are on the edge of the power grid and often do not



### Low Start-up Draw Eliminates Costly Start Capacitors Ideal for Remote Applications Robust Construction - Very Low Maintenance

have a reliable, three-phase power supply. The Instrument Air Compressor from PneuTech solves that problem with a low amp start-up that only relies on single-phase power.

- The Instrument Air System utilizes the existing infrastructure. Existing piping is used and no other system changes are required.
- Compressed air for instruments on-site at the well eliminates safety hazards associated with flammable natural gas driving pneumatic devices.

Other sizes, configurations, and three-phase units are available.



## **Executive Summary**

# **Convert Gas Pneumatic Controls to Instrument Air Report by EPA**

Pneumatic instrument systems powered by high-pressure natural gas are often used across the natural gas and petroleum industries for process control. Typical process control applications include pressure, temperature, liquid level, and flow rate regulation. The constant bleed of natural gas from these controllers is collectively one of the largest sources of methane emissions in the natural gas industry, estimated at approximately 51 billion cubic feet (Bcf) per year in the production sector, 14 Bcf per year in the transmission sector, and <1 Bcf from processing.

Companies can achieve significant cost savings and methane emission reductions by converting natural gas-powered pneumatic control systems to compressed instrument air systems. Instrument air systems substitute compressed air for the pressurized natural gas, eliminating methane emissions and providing additional safety benefits. Cost effective applications, however, are limited to those field sites with available electrical power, either from a utility or self-generated.

Natural Gas STAR Partners have reported savings of up to 70,000 thousand cubic feet (Mcf) per year per facility by replacing natural gas-powered pneumatic systems with instrument air systems, representing annual savings of up to \$490,000 per facility. Partners have found that most investments to convert pneumatic systems pay for themselves in just over one year. Individual savings will vary depending on the design, condition and specific operating conditions of the controllers.

Many Partners have found that it is economic to substitute compressed air for natural gas in pneumatic systems. The use of instrument air eliminates methane emissions and leads to increased gas sales. In addition, by eliminating the use of a flammable substance, operational safety is significantly increased. The primary costs associated with conversion to instrument air systems are initial capital expenditures for installing compressors and related equipment and operating costs for electrical energy to power the compressor motor. Existing pneumatic gas supply piping, control instruments, and valve actuators of the gas pneumatic system can be reused in an instrument air system.

For a copy of the complete report, go to this link:

[https://www.epa.gov/sites/production/files/2016-06/documents/ll\\_instrument\\_air.pdf](https://www.epa.gov/sites/production/files/2016-06/documents/ll_instrument_air.pdf)

or contact Fluid-Aire for a complimentary copy

## Our Mission Statement

Using our combined industry experience, we provide knowledge, support, and superior products to compressed air distributors across the globe. We are committed to producing positive results through being trustworthy, ethical, and accessible. We are founded in the beliefs that through working together we can continue to transform the industry, while rising to turn challenges into opportunities.



United States | Australia  
United Kingdom | New Zealand

### ***WSI Machinery***

1530 N. Old Rand Road,  
Waconda, IL 60084  
847.526.1411  
[www.wsimachinery.com](http://www.wsimachinery.com)