



News Release

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Ultra Low Power Consumption, Minimal Heat Generation and Easy Integration Differentiate Parker's New Oil Drying System from the Competition

Cleveland, OH, May 27, 2015 – Parker Hannifin's Engineered System Solutions Division announces the release of **N₂ NitroDry**, a new compressed air dryer, ideal for use in lube oil systems that use biodegradable or mineral oil.

High temperatures, water and oxygen significantly deteriorate oil and decrease performance in lubrication systems, hydraulic applications, seal monitoring and gear boxes. Through the use of extremely dry nitrogen gas, N₂ NitroDry removes free and dissolved water particles, as well as dissolved oxygen, from the oil. Eliminating these system pollutants by incorporating a dryer minimizes maintenance and downtime and improves overall reliability.

"Corrosion, sludge, varnish and impaired oil flow are costly side effects of oil deterioration. Parker's N₂ NitroDry solution integrates easily into hydraulic, lubrication and control systems, preventing these contaminants and improving performance," explains Marc van Deth, Business Development Manager for the Parker Energy Team. "We've worked closely with our customers to create a drying solution specifically designed for the efficiency needs of the power generation market. This dryer generates minimal heat and consumes ultra low power while extending system life and decreasing maintenance."

How does it work? N₂ NitroDry removes oil vapor, ozone, oxygen and water vapor from compressed air to produce very clean nitrogen. The nitrogen then enters an injector and infuses into the fluid, expelling water and dissolved oxygen from the oil. Depending on the application, N₂ NitroDry re-enters the oil into the system from the storage tank or re-enters the nitrogen injector for another loop, further removing water to a very low level.

"Parker designed this dryer to be extremely versatile, even mobile, with a range of sensor and monitoring options," explains van Deth. "Its compact size and energy efficiency make it a powerful option for companies looking to decrease maintenance time and costs."

N₂ NitroDry consumes 1.6 kVA nominal power, generates minimal heat (<500 Watt) and has an input voltage of 380-690V (50-60 Hz). It offers a 2x4 dm³/min flow rate, 95% nitrogen content and incorporates very few rotating or moving parts for high durability. It can be configured with and without pumps and controls and is available in a mobile version. Additional options include an oil moisture sensor, oil condition sensor, particle counter and debris sensor. Custom options are available upon request.

Parker Hannifin is the world's leader in development, production and sales of motion and control technologies, systems and components. For more information about the N₂ NitroDry, [download this brochure](#).

About Parker Hannifin:

With annual sales of \$13 billion in fiscal year 2014, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of mobile, industrial and aerospace markets. The company employs approximately 57,500 people in 50 countries around the world. Parker has increased its annual dividends paid to shareholders for 58 consecutive fiscal years, among the top five longest-running dividend-increase records in the S&P 500 index. For more information, visit the company's website at www.parker.com or its investor information website at www.phstock.com.

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