



Parker Enables Life-Support Systems on the International Space Station

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CLEVELAND, Dec. 19 /PRNewswire/ -- Parker Hannifin Corporation (NYSE: PH), the world's leading motion-control technology company, plays a vital role in making humanity's first permanent home in space habitable. The company's technologies are critical to sealing, heating and cooling the International Space Station as it orbits 230 miles above the earth.

Hurling through space and passing from direct sunlight to nearly complete darkness, exposes the station to unearthly temperature extremes. Even though protected by thermal blankets and heaters, Parker's connector and sealing systems must function over a temperature range of -140 to +120 degrees Fahrenheit, -95.5 to +48.9 degrees Celsius. Such extremes, coupled with atmospheric differences between the pressurized station and the vacuum of space, present significant challenges to maintaining a life-sustaining environment for the station's international crew.

Parker provides the connections and sealing technologies for a variety of critical onboard controls, including temperature, avionics, pressurization and water supply. These products are proprietary, designed and produced by Parker especially for the space station after more than 10 years of development and testing.

Parker's international scope and experience meeting worldwide engineering requirements were important factors in providing service to support the project, which is a collaboration of 15 countries. For example, Parker seals on the Italian-made interface cupola are manufactured in Germany, while the company's California and Illinois facilities produce heating and pressurization systems supporting the U.S., European, and Japanese modules.

Inside the space station, Parker technologies ensure that conditions in the laboratory spaces and living quarters remain comfortable and free of contaminants.

Over the next five years, Parker will work with the US National Aeronautics and Space Administration (NASA) and its contractors to design and produce more than 3000 assemblies needed to complete construction of the project.

While the International Space Station represents a recent example where Parker products are mission-critical, the company's motion-control applications range from space exploration to general and commercial aviation; telecommunications; energy and power generation; semiconductor fabrication; climate and industrial controls; processing industries; and automation.

With annual sales of \$6 billion, 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 commercial, mobile, industrial and aerospace markets. The company employs more than 45,000 people in 46 countries around the world. For more information, visit the company's web site at www.parker.com or its investor information site at www.phstock.com . SOURCE Parker Hannifin Corporation

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