

The Innovative SPX APV Cavitator – a next generation offering in mixing technology

CHICAGO, USA, Sept. 15-18, 2015 - The innovative APV Cavitator is a modular process technology which forms part of SPX's family of mixing and dispersing equipment. It offers breakthrough benefits for heating liquids without scale build-up as well as provides solutions for many of the most difficult mixing and dispersing challenges for food and beverage processing.

The APV Cavitator was one of the first products commercialized under SPX's 'innovation initiative,' and is an example of how SPX focusses on innovation to better address the needs of its customers. In particular, it is an example of SPX's willingness to combine exciting technologies with its internal expertise to provide breakthrough products and services.

The APV Cavitator is based on technology exclusively licensed from Hydro Dynamics, Inc. for sanitary applications. SPX has extensively tested and enhanced the Cavitator design for maximum performance at its Innovation Center in Silkeborg, Denmark. Named for the powerful effects of shockwaves produced from the collapse of 'controlled cavitation' bubbles, the APV Cavitator works by taking a fluid into the machine housing, where it is passed through a controlled cavitation field created by the reactor's spinning rotor.

The unique design uses the intense force of cavitation in a controlled manner, rather than typical impellers or blades to process materials, increasing the mass transfer rate. Additionally, the cavitation effects are achieved without damage to metal surfaces. The APV Cavitator can be considered a next generation offering and a paradigm shift in the mixing industry where process intensification, acceleration and the replacement of batch processing with continuous processing are necessary to compete in a global economy.

This advanced technology can be used for a multitude of sanitary applications ranging from pasteurization to low-pressure homogenization.

Benefits include:

- Improved process efficiencies (time, operating costs, and/or capital costs)
- Enhanced product quality, yield and/or raw material savings
- Extended process run times related to scale-free heating
- Elimination or reduction of process downtime from maintenance requirements
- Smaller footprint than traditional technology
- Designed for easy disassembly, fully CIPable, and certified under the 3-A Sanitary Standards

SPX can leverage its extensive industry experience and process expertise to support customers in applying the APV Cavitator, along with many other innovative sanitary technologies for the food, beverage and personal care industries. To learn more, go to www.spxflow.com.

About SPX:

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global, multi-industry manufacturing leader with approximately \$4.5 billion in annual revenue, operations in more than 35 countries and over 14,000 employees. The company's highly-specialized, engineered products and technologies are concentrated in Flow Technology and energy infrastructure. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand for electricity and processed foods and beverages, particularly in emerging markets. The company's products include food processing systems for the food and beverage industry, critical Flow components for oil and gas processing, power transformers for utility companies, and cooling systems for power plants. For more information, please visit www.spx.com.

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