

APV Heat Exchangers Improve Efficiency And Reduce Emissions in Power Applications

FRANKFURT, Germany, June 15-19, 2015 - With the hunger for energy showing no signs of abating and the impetus to reduce carbon emissions becoming an imperative, the drive for greater efficiency in power generation has never been more crucial. More efficient process heat recovery reduces energy consumption and can bring significant cost savings. From its APV brand, SPX provides a wide range of plate heat exchanger technologies that improve thermal management and increase efficiency in both fossil-fueled and nuclear power generation as well as district heating units. Lightweight and highly efficient heat transfer surfaces combine with robust and compact designs to deliver reliable performance and maximum heat efficiency in demanding process conditions across a wide range of power generation technologies. Widely used in low to medium pressure heat transfer applications, SPX solutions play an important role in applications ranging from cooling and heating to condensing and evaporation of process fluids in, for example, steam condensers and district cooling units.

APV heat transfer solutions for the energy sector are based on a complete range of plate-type heat exchangers including gasketed, semi-welded and welded plate options. These range from high capacity, heavy duty units to small, compact designs which are available as standard solutions or as customized units based on groundbreaking designs and various materials.

SPX APV brand heat exchangers provide easy inspection and maintenance access and can be cleaned using clean-in-place (CIP) or mechanical cleaning processes. The high thermal efficiency of APV heat exchangers enables a very compact design, resulting in a minimum footprint where space and weight are essential parameters. This means less extensive loadbearing foundations, faster installation at lower cost and lower overall capital expenditure.

The range of APV gasketed plate heat exchangers offers exceptionally high thermal efficiency with the flexibility to reconfigure solutions to meet changing needs. Plates are designed for efficient flow distribution and optimum turbulence to maximize heat transfer efficiency. Service downtime is minimized due to easy operation and maintenance features including easy-to-mount APV clip gaskets and plate alignment features such as "Corner Lock" and "Bubble Lock" which ensure a stable, well-aligned plate pack every time the unit is closed.

In higher temperature and higher pressure applications, the APV Hybrid series of welded plate heat exchangers stand out as an obvious choice. The high thermal efficiency of the APV Hybrid heat exchangers reduces external energy input demand, while its design flexibility enables very low-pressure drops to be achieved without compromising performance. Optimized plate corrugation patterns reduce the risk of fouling and increase heat recovery respectively, depending on the duty conditions and priorities. The APV Hybrid heat exchanger can be easily opened for inspection and cleaning by removing the housing covers. The unit is mechanically cleanable on the tube side and plate side is easily CIP-able making it a truly cleanable solution.

The APV ParaWeld series. These semi-welded plate heat exchangers are designed with welded channels to allow handling of aggressive fluids and are available with either conventional or special gaskets to match specific duty requirements. The units are highly suitable, functioning as main propane pre-heaters and propane evaporators.

Also available is the Orion DuraFlow & EnergySaver, a 4" ported plate heat exchanger designed to cover a wide range of applications and secure even better solutions for customers in the energy sector. By implementing features developed over the past ten years it delivers a more cost effective heat exchanger with a superior ratio between plate thickness and pressure rating. The superior plate stack stability enables the use of thinner and more efficient plates without compromising mechanical strength. Improved thermal performance is achieved through the graduated chocolate box distribution. The Orion plate exchanger allows improved

construction time as maintenance is reduced to a minimum. Any service required can easily be carried out by staff on site, saving both time and money.

SPX has vast experience in optimizing the utilization of energy through efficient heat recovery, and a wide range of heat transfer solutions and options are available to best match application requirements. The portfolio is globally supported by SPX expert design and application engineering, project management, service and maintenance to help customers optimize their processes. SPX heat transfer solutions are designed to operate safely and offer better economy by increasing performance, improving run times and lowering maintenance costs

About SPX:

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global, multi-industry manufacturing leader with approximately \$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.

CONTACT DETAILS:

Irene Constantin
Marketing Communications Manager
SPX Corporation
irene.constantin@spx.com
Tel +45 8922 8326
www.spx.com

PHOTOS:

