

Armstrong Fluid Technology brings highest energy efficiency with lowest installation and operating cost solutions to ISH China & CIHE 2021

May, 12, 2021

Announcement

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For Immediate Release

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Beijing, May, 12, 2021 - Armstrong Fluid Technology recently showcased a range of the most innovative, high value solutions at ISH China & CIHE 2021, the Asia's leading trade fair focusing on HVAC industry chain, located at Beijing National Exhibition Center (new hall). Armstrong's fluid flow and control portfolio for commercial and domestic customers provide the highest energy efficiency and redundancy while offering solutions with the lowest installation cost, lowest operating cost and the lowest environmental impact.

As part of the company's commitment to global sustainability, Armstrong will also be highlighting its corporate initiative to reduce Greenhouse Gas (GHG) emissions 2 million tonnes by the year 2022. Achieving this goal would be equivalent to taking 600,000 cars off the road for one year, or offsetting the average annual CO2 emissions generated by 100,000 people.

One highlight of the display is Armstrong's internationally award-winning **Design Envelope Tango**, an intelligent, variable-speed pump. The Tango features Parallel Sensorless Pump Control (PSPC) a technology that improves the efficiency of a multi-pump installation through optimized load sharing. PSPC technology improves the efficiency of the full pump array by up to 30% over traditional multi-pump installations.

Also being showcased is the Armstrong Intelligent Fluid Management System (**iFMS**). These systems are designed and built off site to BS EN 1090 standards and to meet the specific requirements of individual projects. Serving both chilled water and hot water applications, the iFMS features Design Envelope technology that maximizes pumping efficiency by adjusting pump speed in response to system demand. The Design Envelope approach to sizing uses a combination of optimized impeller size and speed control to establish a range or envelope for most efficient operation.

Another highlight of the stand is **Armstrong's IPP solution - Design Envelope Chilled-Water Integrated Plant Package**. IPP combines all the equipment needed to deliver chilled water to medium to large size buildings at superior energy efficiency. The factory-assembled plant includes pumps, integrated controls, water-cooled chillers and the requisite instrumentation, valves and sensors.

And Audiences can experience a serial of Armstrong's leading technologies at same time:

- 1. DE - Design Envelope solutions: Demand-Based Operation**
Design Envelope solutions reduce pumping costs through variable speed, demand-based operation — consuming only the energy required, based on current system demand.
- 2. Pump Manager: High security, IoT based remote asset management and analysis services**
Pump Manager serves as a platform to securely store and visualize pump data, execute advanced analytics, and deliver performance tracking notifications value to customers.
- 3. OPTI-POINT™ Updated with self-learning optimization technology**
which enables Active Performance Management by creating a digital twin of a mechanical system and learning its operating characteristics in real time.
- 4. Active Performance Management: optimize an HVAC system at any stage of a building's lifecycle**
Accessing and learning from a broad network of installations and responding to changing HVAC requirements, the patented technology includes machine learning that is enabled through the system flow information.

"Armstrong Fluid Technology always adhered to the Canadian heritage of innovation and quality, and prioritizes energy-saving features. As China

government had elevates its Carbon emission reduction into national strategy in 2020, it also offers us a vast opportunity. Our traditional strengths in energy conservation are highly aligned with China's strategic opportunities for future development." Said Mr. Wu Zhifei, General Manager of Armstrong China. "We're excited to be leveraging this strong platform of product solutions to introduce more customers in China to our innovative technology and the Armstrong culture of service."

For more information, please visit www.armstrongfluidtechnology.com.

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About Armstrong Fluid Technology

With eight manufacturing facilities on four continents, and employees around the world, Armstrong Fluid Technology is known as an innovator in the design, engineering and manufacturing of intelligent fluid flow equipment, control solutions and optimization technologies.

In the shift toward digitalization and integration of fluid-flow systems, Armstrong leads the industry. With advanced solutions that leverage edge computing, IoT, machine learning, digital twin technology and demand-based control, Armstrong provides and protects efficiency in building mechanical systems, approaching energy optimization as a whole-building challenge and advancing the practice of full lifecycle management. Focusing on HVAC, Plumbing, Gas Transmission and Fire Safety applications, we provide energy-efficient, cost-effective solutions and performance management services to building and facility professionals around the world.

Armstrong Fluid Technology is committed to sustainability. In 2019, Armstrong signed the Net Zero Carbon Buildings Commitment, a program launched by the World Green Building Council. As a signatory to the program, Armstrong has pledged to ensure that all its offices and manufacturing facilities operate at net-zero carbon by the year 2030.