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Innovative chemical dry vacuum pump sets new standard for high reliability and low cost of ownership

TEWKSBURY, MA. USA (1 November 2011) Edwards, a global leader in vacuum and abatement technologies, is showing its highly anticipated new CXS dry pump range which delivers exceptional vacuum performance in harsh chemical, petrochemical and pharmaceutical processes on booth 808 at Chem Show 2011.

The easy-to-use CXS pumps feature cutting edge tapered screw technology, have excellent reliability, are simple to install, environmentally friendly and give improved liquid and solids handling. As a result, they are economic to run and users can optimize their vacuum processes and minimize overall cost of ownership.

CXS pumps enable users to minimize their environmental impact. They provide all the advantages of dry pumps, with low energy usage and utility costs, deep and flexible vacuum down to 10^{-3} mbar, no contamination of the process stream or cooling water and no effluent generation.

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They are robust and reliable even in harsh pumping environments and have excellent liquid and solids handling capability, with the ability to pump up to one liter of liquid per minute continuously and up to 25 liter slugs without stopping. The pumps are independently certified for use in hazardous environments to ensure safe pumping of flammable gases. They also pump corrosive gases without corroding.

The advanced screw technology gives smooth, gradual compression along the length of the rotor, which results in improved thermal control and optimized pumping at all inlet pressures. The CXS pumps feature an advanced temperature management system (TMS) which maintains the temperature at programmable levels for optimal process performance.

The innovative CXS pump design incorporates novel compression and motor technologies which contribute to its excellent performance. It uses flooded air-gap potted motors which are up to 15 per cent more efficient than standard motors and integral drive and control systems, helping to lower the cost of ownership.

The CXS pump mechanisms are smooth and quiet running, with noise levels as low as 64 dB(A). In addition, the pumps can be close-coupled and vertically aligned with mechanical boosters to achieve minimum footprint and height. The CXS pumps have long service intervals of up to five years and require minimal routine maintenance over their life expectancy of more than 25 years.

The energy efficient CXS pumps are available as stand-alone pumps or complete systems, including mechanical boosters for higher pumping capacities and with accessories such as valves, flame arresters, condensers, knock-out pots and filters. There are two different models in the range initially – CXS160 and CXS250 – which give nominal capacities of 160 m³h⁻¹ and 250 m³h⁻¹ respectively. They also can be integrated with Edwards' renowned hydrokinetic drive EH boosters.



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All of the combinations are simple to install and easy to use. They have an integral controller, PID pressure control and safety systems for 'plug and play' operation and can be linked to any external control system via a variety of modern communication interfaces such as Ethernet and Profibus DP.

They provide fast pump down and excellent control which results in optimum performance in a variety of applications such as distillation, drying, evaporation, reactor service, house vacuum, solvent recovery, crystallization and filtration.

"This new generation of dry pumps combines the high performance technology we have developed in the harsh and demanding world of semiconductor vacuum with our long and successful experience of providing vacuum to the chemical and pharmaceutical industries," says Dr Don Collins, chemical market development manager, Edwards. "Our innovative CXS dry vacuum pumps set a new standard in dry pumping and our customers can benefit from our advanced technology and applications expertise for highly reliable, efficient and easy-to-install and use vacuum systems. We can also provide maintenance support anywhere in the world through our knowledgeable and experienced service team."

Edwards invented the concept of the dry pump over 26 years ago and delivers safe, reliable solutions that help customers in many industries to enhance process performance. For more information about the new CXS dry vacuum pump visit www.edwardsvacuum.com/cxs.

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About Edwards

Edwards is a leading global technology and environmental business supplying integrated solutions for the manufacture of semiconductors, flat panel displays, LEDs and solar cells as well as vacuum technology for industrial, scientific, process and R&D applications.

The company employs approximately 3,000 people worldwide in the design, manufacture and support of high technology vacuum and exhaust management equipment.

Edwards invented the concept of the low-maintenance, cost-effective, commercial oil-free 'dry' vacuum pump, while its abatement systems prevent the emission of harmful greenhouse gases making the Edwards' overall carbon footprint negative*

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

* Greenhouse Gas Protocol -Scope 3 Indirect Emissions