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PRESS RELEASE:

C.A.S. Launches High-Capacity Circulation Heater for Industrial Gas Market

Cast Aluminum Solutions (CAS), a leader in designing & manufacturing high-capacity circulation heaters, is pleased to announce the launch of the CAST-X 4000 Circulation Heater – positioned to be one of highest-capacity ‘no contact’ circulation heaters on the market.

The CAST-X 4000 was designed specifically for high-throughput heating applications, and should fit nicely with modern gas regeneration applications, air separation and trim heating processes. The CAST-X 4000 is offered in several voltage, wattage and circuitry configurations. Delivering up to 60 kilowatts of power, the CAST-X 4000 is rated to withstand pressures up to 2500 PSI.

The CAST-X 4000 features dual 1-inch (2.5 cm) OD stainless steel spiraled flow-path tubes, which are cast into an aluminum mass that also contains the heating elements. To accommodate extremely-high-pressure applications, the CAST-X 4000 is available with Inconel flow-path tubes: electro-polished tubes and passivated tubes are also available.

The CAST-X design is favorable because it delivers “indirect heat” which means the media being heated never contacts the heating elements. This “no contact” design is favored by processors of flammable industrial gases and natural gas. This design has important safety features, but the isolated stainless steel flow-path is also much cleaner than immersion heaters and traditional shell & tube heaters.

Eric Hostert, Director of Engineering at Cast Aluminum Solutions, explained, “The CAST-X 4000 follows the proven design of our smaller CAST-X heaters...a very reliable, low maintenance, small footprint circulation heater...but with upsized tubing and heating elements to accommodate today’s high-volume natural gas and industrial gas customers.”

To facilitate integration with a wide range of applications and installation environments, the CAST-X 4000 is available with explosion-proof and moisture-resistant electrical enclosures.

Common applications for the CAST-X 4000 will be gas drying, regeneration, air separation (oxygen / nitrogen / argon), as well as compensating for the Joule-Thomson effect in natural gas processing. Heated liquids and gases can be run through the CAST-X 4000’s dual tubes “in series” (gases flow through the 1st tube and then into the 2nd tube), or run “in parallel” (both tubes are simple one-pass in & out, for high volume throughput), or in a single tube-single pass format.

Jerry Carlson, CAST-X Divisional Vice President, further explained, “The CAST-X line is well-known for both its safety record and power-to-size ratio. And with process engineers looking to heat greater volumes of gas in shorter amounts of time, using a contact-free device, we feel the new 4000 will see great demand throughout the industrial gas sector.”

The CAST-X Circulation Heater is manufactured by Cast Aluminum Solutions, headquartered in Batavia, Illinois. For further information regarding Cast Aluminum Solutions (CAS) or CAST-X Circulation Heaters, please contact Jeffrey Awe, Marketing Director for Cast Aluminum Solutions. Contact information is above. Thank you.

About Cast Aluminum Solutions:

Headquartered in Batavia, Illinois, Cast Aluminum Solutions services companies worldwide with highly-engineered thermal products and aluminum components. CAS engineers and technicians utilize industry-standard technology to design, test, manufacture and inspect all products. Primary markets include semiconductor wafer processing, oil & gas sectors, industrial gas, commercial food & beverage, as well as pharmaceutical and specialty-chemical processors.



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CAST-X 4000 Circulation Heaters from Cast Aluminum Solutions. These units feature dual 1 inch OD (2.5 cm) flow-tubes made of seamless 316L stainless steel. The CAST-X 4000 is capable of heating flammable liquids or gases, even under tremendous operating temperatures.



Just 25 inches (63.5 cm)

The CAST-X 4000 features a small footprint, at under 25 inches tall (65 cm), but delivers an incredible amount of power, due to the cast-in design of the heating elements & flow-tubes. CAST-X flow-tubes are self draining, so residual media drains from the system when powered down, an important safety feature.



The CAST-X 4000 from Cast Aluminum Solutions is offered with a waterproof electrical enclosure (left) or an explosion-proof enclosure (rt). Built-in thermocouples help provide seamless integration with standard control systems such as PLC and PID devices.