HIGH TEMPERATURE SYSTEMS, INC.

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FOR IMMEDIATE RELEASE

Molten Metal Pump Pricing Breakthrough

Chagrin Falls, Ohio - August 12, 2013 - High Temperature Systems, Inc., a world leader in molten metal circulation and transfer technology, announces a pricing breakthrough for molten metal pumps with the introduction of the Q501 Series QuickPump. At 60% the cost of similar pumps, the Q501 Series QuickPump brings the benefits of transfer pumps within range of all potential users. The QuickPump allows for manual or automated transfer of molten metal from furnaces and crucibles. The Q501 Series QuickPump is designed to easily fit within small crucibles and holding furnaces with a base that measures less than 10.1" x 7.2" (26cm x 19cm) and weighs less than 70 lbs.

Simple, Reliable, and Cost Effective

The Q501 Series QuickPump pricing breakthrough is the result of elegant design and streamlined manufacturing. The complete pump consists of only eight major components, of which only four components are exposed to the molten metal. All components of the pump are field replaceable units and typical repair times are less than 15 minutes. All graphite components benefit from High Temperature Systems post-fabrication proprietary oxidation-resistant treatment to significantly extend the lifespan of the pump.

Optional Configurations

The Q501 Series QuickPump is available with either a bottom-only feed or bottom-top feed. When used to empty a furnace or crucible, the bottom-only feed configuration is most effective. When used for process transfer applications, the bottom-top feed draws equal portions of molten metal from above and below the pump base to improve homogeneity. The Q501 can be converted from a top-feed only to a bottom-top feed simply by swapping the impeller.

The Q501 Series QuickPump shown here is configured with an air motor; however an electric motor option is available. The electric motor uses a 3-phase induction motor compatible with inverter type motor speed controllers. The air motor option has the added benefit of operating without electricity and can be operated from bottled or house nitrogen.

Applications

The Q501 Series QuickPump is ideal for a number of mission critical applications including production and maintenance operations. Production applications include transferring metal between furnace, transfer ladles, crucibles, and casting machines; thus eliminating the need for slower and more hazardous manual ladling or tapping out. The Q501 makes quick work of furnace pump-outs that are required for regular furnace maintenance and alloy changes. Finally, the QuickPump is at the ready to address emergency situations which require emptying the furnace into sows.

Major Transfer Pump Benefits

Using a transfer pump instead of ladling or tapping-out has several major benefits including:

- Increased productivity
- Improved metal quality
- Faster transfer rates
- Improved energy efficiency
- Enhanced Safety

Metal Compatibility

The Q501 Series QuickPump design is compatible with non-ferrous metals including Aluminum, Zinc, and Lead. The optional *Cover Gas Configuration* extends the pump compatibility to include reactive metals such as Magnesium.

Price and Availability

The Q501 Series QuickPump starts at $4995.00 USD. IMMEDIATE AVAILABILITY - STOCK ITEM.

For more information: http://hitemp.com/quickpump/

About High Temperature Systems, Inc.

With more than 40 years of molten metal pump expertise; High Temperature Systems has become a world leader in molten metal circulation and transfer pump systems, as well as in degas and flux injection solutions. Our customers are plant engineers and managers in the world wide primary and secondary aluminum, zinc, and lead production as well as die casting industries. The value we provide them is a combination of products for their critical metal quality requirements and a rich understanding of the applications. We help them improve the quality of their alloys while reducing cost by improving furnace efficiency, reducing metal loss and dross generation. High Temperature Systems, Inc. is a privately held corporation.