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Paragon Airheater Technologies Announces Availability of High Performance Replacement Parts for Regenerative Airheaters

Innovative parts extend life, improve performance, and reduce maintenance costs of airheater

CORONA, Calif., Dec. 11 /PRNewswire/ -- Paragon Airheater Technologies, the fastest growing manufacturer of high-performance seals and baskets for rotary, regenerative airheaters, has announced the availability of high performance replacement basketed elements for rotary, regenerative airheaters used in steam-driven power generation applications worldwide. Two innovative technologies, both patented by Paragon, will minimize deposition and corrosion in the heat transfer surfaces (basketed element) of the airheater, thus improving performance, decreasing maintenance costs, and extending the life of the airheater.

"These latest advances are part of our commitment to power producers to maximize airheater performance and efficiency through innovation, technology, and quality service," explained John Busic, CEO of Paragon. "We are steadfast in our commitment to supply replacement parts that exceed the industry's most stringent demands for fast delivery, high quality, customized service, engineering, and competitive pricing."

The first innovation is Paragon's ACE-8 (Advanced Clean Element). This configuration of heat transfer surfaces in the basket of the airheater maximizes heat transfer and provides a lower pressure drop than other available elements. At the same time, its unobstructed flow pattern greatly reduces plugging from fly ash and ammonium bisulfate (ABS) - a byproduct of the NOx reduction process - that is a common problem in conventional airheaters. The unique flow pattern also enables easy cleaning throughout its entire depth with normal soot blowing.

"Through extensive research and testing, we have designed a flow passage geometry that provides an unobstructed path for particulate pass-through - reducing plugging - but that also maximizes heat transfer," explained John Guffre P.E., Research Scientist for Paragon. "You essentially get the best of both worlds with this design."

Further enhancing the airheater elements is a second Paragon innovation - its rugged DuraShield(TM) coating. Airheater basketed elements are typically coated with enamel, which commonly cracks and separates from base metal when subjected to impacts, flexing, or thermal shock. Conversely, Paragon's DuraShield(TM) coating is highly resistant to corrosion and fouling by ash and ABS, while withstanding the most demanding and extreme conditions encountered in steam-driven power generation applications. Thoroughly tested over four years, DuraShield(TM) has proven its durability, corrosion resistance, and value. John Guffre states that "Over the past three decades, I've seen many attempts made to tackle the life expectancy problems associated with the basketed elements but until now, there has not been a coating or application process that provides the protection and performance gains available with DuraShield(TM). It's an incredible opportunity for the industry."

About Paragon:

Specializing in the manufacturing of high-performance seals and related replacement parts for rotary, regenerative airheaters, Paragon is establishing a broad presence in the energy market. Their high-quality seals are specially designed to provide maximum efficiency while withstanding the harsh operating conditions normally encountered in the airheater. Paragon's exclusive and patented design for both radial/axial and circumferential/bypass seals, surpass original equipment manufacturer standards, providing maximum performance and improving airheater efficiency.

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