



HRS Heat Exchangers: helping to improve overall efficiency of gas compressor installations

FEBRUARY 15, 2012/LONDON, UK – HRS Heat Exchangers Limited, a leading heat transfer specialist for the process industries, has recently supplied Gas Compressors Ltd. with an HRS K37 multi-tube corrugated shell and tube heat exchanger for a compressor installation that maintains natural gas supply pressure to a gas turbine at the Saica Paper mills.

Gas Compressors Ltd. is a single source, plug and play, supplier offering a complete package to our clients. GCL specialise in the design, manufacture and commissioning of large and medium sized, custom built/bespoke gas compressor and booster packages for use in the Oil & Gas, Power Generation, Landfill, Water, Renewable and Petrochemical Industries. We are flexible and not tied to any particular sub-vendors, compressor manufacturers or compressor technologies.

The 4m long heat exchanger cools the 9300nm³/hr gas supply after compression, which is required to maintain feed pressure to the turbine in periods of high local demand and so ensure uninterrupted operation 24/7. The heat exchanger also condenses out any water vapour present in the gas composition.

High overall efficiency of the installation is ensured by the patented design of the HRS corrugated tube heat exchanger that achieves the required heat transfer to reduce the gas temperature from 90°C to 45°C with a very low pressure loss. The corrugated tube design also enables the heat exchanger to made considerably smaller than a comparable smooth tube unit, saving both space and cost. The combination of 32.5bar g design pressure and natural gas meant that the heat exchanger was required to meet the very demanding category IV PED (EU Pressure Equipment Directive) requirements.

Commenting on the partnership, Tony Silk, Head of Sales for Gas Compressors Ltd. stated, “We take great pride in customer service and our top quality, unique, packages. We are careful to provide the customer with their exact requirements, including delivering on time and continuity of care throughout our projects. This installation is one of a number implemented in



cooperation with HRS over a period of some 10 years, an on-going partnership that helps us to maintain our very high standards”.

Priya Murray, Technical Manager, HRS Heat Exchangers explained, “This is a very demanding application: good heat transfer is normally only achieved by high gas velocity and a corresponding high pressure loss that reduces the efficiency of the whole installation. Our corrugated tube design reduces pressure loss to deliver the efficiency required and occupies less space.”

About HRS Heat Exchangers Limited

HRS Heat Exchangers Limited (part of the HRS Group) is a leading international heat transfer specialist offering innovative solutions to the processing industry.

Headquartered in the UK, HRS Heat Exchangers operates at the forefront of processing technology and for over 30 years has designed, manufactured and sold heat exchangers and heat transfer technology to many different industries.

HRS products and system solutions have been used in such sectors as HVAC, Food, Chemical, Pharmaceutical, Water supply, Energy Recovery, Waste to energy and Environmental protection. All HRS products are manufactured to ISO 9001 and comply with the European PED, and are also certified to the ASME “U” stamp standard.

HRS Heat Exchangers Ltd offers a wide range of heat exchangers and associated products including corrugated tube shell and tube, scraped surface and plate heat exchangers, together with a hygienic piston pump and packages such as Pasteurisers, CIP and Food processing systems. HRS also manufactures a patented self-cleaning scraped surface evaporator system for solids concentration.

HRS has offices in Spain, Germany, USA, Peru, Dubai, Kuala Lumpur and India as well as manufacturing and assembly plants in the UK, India, Dubai and Spain.

To learn more about HRS Heat Exchangers, please visit www.hrs-heatexchangers.com

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