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News Release

Market launch of new high-performance nitrogen gas generator

Taiyo Nippon Sanso Corporation (TNSC; President Hirosuke Matsueda) announces the market introduction of a nitrogen gas generator, utilizing newly developed high-performance adsorbent agent.

Nitrogen gas generators are widely used in the chemical, electric machinery, steel, food and other industries for purging and sealing of products and raw materials. This system selectively adsorbs and separates only oxygen from the air, and extracts only nitrogen (purity: up to 99.999%). As an adsorbing agent, it uses Molecular Sieving Carbon (MSC), a kind of activated carbon. After painstaking development of manufacturing methods for MSC, TNSC has developed a MSC with significantly improved adsorbing capabilities, and has just introduced it on the market for use in RT Series successor systems the package-type RX Series, with hourly nitrogen output volume of 20-100N M^3.

We have taken every measure to reduce electric power consumption intended to help cut CO_2 emissions at customer plants. Asked to reduce power consumption in the compressors used in conventional nitrogen gas generators, we responded to the challenge in the year before last by launching energy-saving types in which power for driving compressors was controlled by levels of energy consumed. But this new generator does not feature process improvements; but thanks to use of high-performance

MSC, it enables a major reduction in power use by compressors even during full operation. Additionally, as an optional feature, by incorporating energy-saving systems into the new model, we can offer energy-saving benefits to our customers regardless of compressor operating pattern.

The RT Series lineup comprises seven systems with a nitrogen gas output volume of 23N M^3-130N M^3 per hour. In the case of systems operating at 50N M^3 per hour, nitrogen gas generator prices (including compressor costs) are reduced by approximately 20% compared with conventional systems, total floor space for the installation of the PSA main system is approximately 15% less, and there is a saving of approximately 20% in compressor output.

Nitrogen gas generator, with energy-saving system

(Exterior unchanged)