



January 15, 2021
Taiyo Nippon Sanso Corporation

Notice Regarding Sales Launch for New PSA-Type Nitrogen Gas Generators

Taiyo Nippon Sanso Corporation (“TNSC”) (President: Kenji Nagata) hereby announces that it has launched sales of the RZ series of new PSA-type nitrogen gas generators equipped with new functions in Japan beginning in January 2021.

1. Outline of New PSA-Type Nitrogen Gas Generators

For the RZ series, TNSC newly adopted an adsorbent (MSC: molecular-sieving carbon) capable of effectively producing nitrogen gas even with raw material air at 0.7 MPa or under. This allows customers’ factories to use surplus air as raw material air, which had been difficult to use due to low pressure, while saving energy and reducing costs.

TNSC also adopted a new function known as “heat drive mode,” and achieved a stable supply of nitrogen gas even in high-temperature installation locations or on hot summer days..

It has also made the FE energy-saving system(*) a standard feature, which had only been offered as an option on previous models, making the product environmentally friendly.

Note (*): FE energy-saving system

TNSC’s unique, patented energy-saving control system that is capable of reducing the electricity consumption of compressors in response to fluctuations in the consumption of nitrogen gas without using an inverter compressor

2. Heat Drive Mode: A New Function

The potency of absorbents decreases as temperatures rise. To avoid interruptions during gas transmission due to irregularities in oxygen density caused by heat, we have newly equipped the device with a function that automatically reduces the load when it senses an increase in oxygen density in the gas inside the product and continues to supply nitrogen gas. As a result, the temperature at which nitrogen PSA installation is possible can be raised from the original 40°C to 50°C, thereby achieving stable operation even when used in high-temperature installation locations and outdoors.



3. List of New Models

Equipment model number		RZ100	RZ130	RZ170
Standard nitrogen gas specifications*	Purity	99.9 vol%	99.9 vol%	99.9 vol%
	Amount generated	100Nm ³ /h	180Nm ³ /h	240Nm ³ /h
Air compression power		55kW	75kW	100kW

*1 Under the following environment: External temperature 30°C, humidity 80% R.H., atmospheric pressure 1013 hPa

*2 Conditions above are an example.

4. Developments Going Forward

We launched sales of TNSC's new PSA-type nitrogen gas generators (RZ series) in January 2021 in Japan, and forecast sales of 10 units in the first year (FYE2022).

As “The Gas Professionals,” we solve various issues through gas technology such as remote support service, while offering customers optimum gas supply equipment. We help to realize an affluent society for the future.



Exterior of the new RZ100

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