

PSA Nitrogen Generator 10Nm³/H 99.99% Purity for Annealing Furnace Atmosphere Protection

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GASPU
- Certification: CE, ISO 9001:2015
- Model Number: N2-HT-10
- Minimum Order Quantity: 1 Set
- Price: USD 10,000-18,000 / Set
- Packaging Details: Export-grade plywood case with foam padding
- Delivery Time: 35 working days
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 10 Sets per Month



Product Specification

- Model: N2-HT-10
- Nitrogen Flow Rate: 10 Nm³/H
- Nitrogen Purity: 99.99%
- Dew Point: ≤ -60 DegC
- Output Pressure: 0.5-0.8 MPa
- Control System: PLC + Touch Screen HMI
- Operation Mode: Fully Automatic
- Power Consumption: 4 KW
- Footprint (LxWxH): 1800 X 1200 X 1700 Mm
- Application: Annealing Furnace / Bright Heat Processing
- Highlight: **Annealing Furnace Atmosphere Nitrogen, Metal Heat Treatment N₂ Protection, 99.99% Purity PSA Generator**

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Product Description

PSA Nitrogen Generator 10Nm³/H for Annealing Furnace Atmosphere

The GASPU N2-HT-10 is a compact PSA nitrogen generator designed for annealing furnace atmosphere protection in metal heat treatment workshops. Supplying 10Nm³/H of nitrogen at 99.99% purity with dew point ≤ -60°C, it protects tool steel, die steel and alloy parts from oxidation and decarburization during annealing and bright heat processing.

Key Features & Competitive Advantages

Furnace Atmosphere Grade Purity: 99.99% nitrogen with ultra-low dew point for protective annealing atmospheres.

Small Footprint for Workshop Layout: Compact skid design fits easily beside existing furnaces, no civil works required.

Fully Automatic PLC Control: One-button start, automatic purity compensation and alarm output for unattended heat treatment shifts.

Low Operating Cost: On-site generation saves 30-50% versus liquid nitrogen or cylinder supply for small furnaces.

Industrial Durable Build: Seamless steel pipelines, hybrid steel frame, CE and ISO 9001:2015 certified.

Technical Specifications

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Common Applications

Tool steel and die steel annealing, bright heat processing of alloy parts, sintering and brazing protection, small batch heat treatment furnaces.

Frequently Asked Questions

Q: Is this unit suitable for intermittent furnace operation?

A: Yes, the PLC system supports frequent start-stop cycles with fast purity recovery.

Q: What purity is needed to avoid surface oxidation?

A: 99.99% with dew point below -60°C is recommended for bright surfaces.

Q: Can it be upgraded later?

A: Yes, the modular design allows adding a nitrogen purification skid for 99.999% output.



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