

Nitrogen Gas Generator 1000ml/min 99.9995% Purity for Chromatography

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE
- Model Number: ZAZN
- Minimum Order Quantity: 1pcs
- Price: Negotiate
- Packaging Details: Carton
- Delivery Time: 25work days
- Payment Terms: T/T
- Supply Ability: 30pcs/month



Product Specification

- Name: Nitrogen Generator(under Table)
- N2 Capacity: 1000ml/min
- Purity: 99.9995%
- Size: 750*500*785
- Air Capacity: 2000mL/min @ Zero Level
- Work Pressure: 4-8barg
- Power: 230V 50Hz 2.2kw
- Weight: 100kg
- Package: Carton Packaging
- Highlight: **Integrated zero gas generator ,
Nitrogen zero gas generator ,
Integrated zero air generator**



Integrated Nitrogen Gas Zero Air Generator ZAZN 1020 2000mL/min

Product Attributes

Attribute	Value
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Product Description

ZAZN1020 Nitrogen Zero Gas Generator: High-Purity Solution for Chromatographic Applications

Overview

The ZAZN1020 Nitrogen Zero Gas Generator by GASPU Science is a cutting-edge solution engineered to meet the demanding gas supply needs of modern chromatographic laboratories. By integrating advanced PSA (Pressure Swing Adsorption) technology with catalytic purification, this generator delivers 99.9995% pure zero nitrogen and high-quality zero air simultaneously, making it an indispensable tool for GC detectors, carrier gases, and analytical workflows.

Designed for efficiency, reliability, and space-saving installation, the ZAZN1020 is tailored to support up to 6 chromatographs, ensuring consistent performance in both routine and critical laboratory environments.

Key Features & Advantages

Dual-Output Capability for Enhanced Productivity: Provides two independent outputs: zero nitrogen (600-1000ml/min) and zero air (1500-2000ml/min), both at 80psig pressure, eliminating the need for separate gas generators.

Ultra-High Purity & Air Quality: Nitrogen purity reaches 99.9995% and zero air total hydrocarbon (THC) levels as low as 0.1ppm, guaranteeing minimal baseline noise and maximum sensitivity.

Reliable Performance in Unstable Power Conditions: Large-capacity pressure storage tank and fast restart function quickly resume operation after power outages.

All-in-One Design with Internal Compressor: Integrated oil-free air compressor eliminates need for external air sources. Compact footprint (510*760*710mm) allows placement under standard workbenches.

Energy-Efficient & User-Friendly: Operates on 220V/50Hz with 2.0KW power rating. Lightweight design (88kg) allows for easy repositioning.

Technical Specifications

Item	Specification
Model	ZAZN1020
Zero Nitrogen Output	600-1000ml/min, 80psig
Nitrogen Purity	99.9995%
Zero Air Output	1500-2000ml/min, 80psig
Zero Air THC	≤0.1ppm
Power Supply	220V/50Hz, 2.0KW

Outlet Size	2*1/4"BSPP
Noise Level	50dB@1m
Dimensions	510*760*710mm
Weight	88kg

Frequently Asked Questions (FAQ)

Q1: How many chromatographs can the ZAZN1020 support?

A1: The generator can supply zero nitrogen and zero air for up to 6 chromatographs simultaneously, making it suitable for mid-to-large scale laboratories.

Q2: Does the ZAZN1020 require external air sources?

A2: No. It features an internal oil-free air compressor, eliminating the need for external connections and simplifying setup.

Q3: What is the noise level during operation?

A3: The generator operates at 50dB@1m, which is quieter than standard lab equipment like centrifuges or fume hoods, ensuring minimal disruption.

Q4: How quickly does the generator restart after a power outage?

A4: Thanks to its fast restart function, the ZAZN1020 resumes gas supply shortly after power restoration, protecting experiments from downtime.

Q5: Is the ZAZN1020 suitable for high-sensitivity GC detectors?

A5: Yes. Its 99.9995% nitrogen purity and 0.1ppm THC zero air ensure low baseline interference, making it ideal for ECD, FID, and MS detectors.

Why Choose the ZAZN1020?

The ZAZN1020 stands out as a cost-effective, space-saving, and high-performance solution for chromatographic gas needs. By combining PSA and catalytic technologies, it delivers unmatched purity and reliability while reducing operational costs associated with gas cylinders. Its compact design, low noise, and energy efficiency make it a top choice for laboratories aiming to optimize workflow and analytical precision.

For laboratories seeking a seamless gas supply solution, the ZAZN1020 is the ultimate investment in quality and productivity.



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