

PED CE Certificated Laser Welding Nitrogen Generator for 2kW / 3kW Systems with 30L / 40L Buffer Tanks

Our Product Introduction

Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: FLY SPEED
- Certification: PED, CE
- Model Number: FS-LW-30/40
- Minimum Order Quantity: 1 Set
- Price: USD 5,500-16,000 / Set
- Packaging Details: Export wooden case with foam protection, sea-worthy packing
- Delivery Time: 15-25 working days
- Payment Terms: T/T,L/C,PayPal
- Supply Ability: 40 Sets per Month



Product Specification

- Control System: PLC + Touch Screen HMI
- Buffer Tank Volume: 30L / 40L
- Compatible Laser Power: 2kW / 3kW
- Nitrogen Purity: 99.99%
- Outlet Pressure: 0.1 - 1.0 MPa
- Nitrogen Flow Rate: 4 - 10 Nm³/H
- Highlight: **2kw 3kw Laser Welding N₂,
30L 40L Assist Gas System,
PED CE Certified Nitrogen Supply**

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Product Description

PED CE Certificated Laser Welding Nitrogen Generator 2kw 3kw 30L 40L

Power your high-output welding with the **PED CE Certificated Laser Welding Nitrogen Generator**, engineered for **2kW and 3kW** laser welding systems. Featuring **30L and 40L** buffer tanks, this generator delivers continuous assist nitrogen at **99.99%** purity, directly supplied by the manufacturer for superior weld quality and lower gas cost.

Product Attributes

Attribute	Value
Brand Name	Fly Speed
Model Number	FS-LW-30/40
Compatible Laser Power	2kW / 3kW
Buffer Tank	30L / 40L Options
Certification	PED, CE
HS CODE	8419609090

Core Features & Advantages

- PED & CE Certificated:** European-certified pressure system for safe, compliant operation.
- High-Power Laser Support:** Stable assist gas supply for 2kW-3kW fiber laser welding with heavy duty cycles.
- 30L / 40L Buffer Tanks:** Larger reserves handle peak flow demand during continuous welding.
- Manufacturer Direct:** Direct supply from the factory ensures competitive price and responsive support.
- Weld Quality Improvement:** High-purity nitrogen shielding reduces spatter, oxidation and porosity.
- Energy Efficient:** Demand-based operation reduces power consumption during idle periods.

Technical Specifications

Parameter	Value
Compatible Laser Power	2kW / 3kW
Nitrogen Purity	99.99%
Buffer Tank Volume	30L / 40L
Nitrogen Flow Rate	4 - 10 Nm3/H
Outlet Pressure	0.1 - 1.0 MPa (adjustable)
Voltage	220V, 50/60Hz
Adsorbent	Carbon Molecular Sieve (CMS)
Control System	PLC + Touch Screen HMI
Certification	PED, CE

Applications

Perfect for high-duty handheld laser welding, robotic welding cells, automated welding lines and sheet metal fabrication shops using 2kW-3kW fiber lasers.

FAQ

Q: What is the advantage of the larger 40L tank?

A: The 40L buffer tank maintains stable pressure during continuous high-speed welding, preventing assist gas fluctuation.

Q: Can it work with robotic welding cells?

A: Yes. With 4-10 Nm³/H output and up to 1.0 MPa pressure, it supports robotic and automated welding applications.

Request a quote now! Fly Speed directly supplies PED CE certificated laser welding nitrogen generators for 2kW-3kW systems.



Suzhou Gaopu Ultra pure gas technology Co.,Ltd



+8613912609547



luyycn@163.com



nitrogengeneratorsystem.com

No.161 Zhongfeng Street, Suzhou New District, Suzhou, P.R.China