

NitroBOX

PLUG&PLAY nitrogen generator



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**PLUG&PLAY
NITROGEN
GENERATOR**

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NitroBOX is a compact and easy solution to produce pressurized Nitrogen directly where it's needed, for laser cutting and every other application where **high purity Nitrogen** is needed.

QUALITY NITROGEN, QUALITY CUT

The high purity of Nitrogen produced by NitroBOX allows cutting stainless steel up to 20 mm thickness, with a **sharp and shiny cut edge**.



SIMPLE AND EFFICIENT NITROGEN PRODUCTION

40 bar

NitroBOX is designed and developed to allow a very quick and easy installation, in order to get on-site Nitrogen supply at desired pressure: a real Plug&Play system.

Yes, it's really that simple!

NitroBOX requires only compressed air (already present in your facility or produced with a compressor) and a power supply, with **significant cost and time savings**.

NitroBOX is instantly ready to use.

Thanks to the PSA technology, Nitrogen is produced directly from ambient air, **no chemicals required**.

NitroBOX autonomously produces Nitrogen needed for cutting at 40-bar.

Nitrogen flows from NitroBOX to the laser system with flow rates up to 500Nm³/day.

Storage capacity can be easily increased by adding one or more tanks next to the NitroBOX system.

ON SITE NITROGEN PRODUCTION

On site production means no downtime to swap cylinders, no cost for gas transport, no Nitrogen waste due to low residual pressure inside the cylinders

On site production means constant quality of the gas, no fluctuation due to different batches of gas or gas contamination

On site production means higher safety for laser operators, no high pressure tank or liquid nitrogen is required.

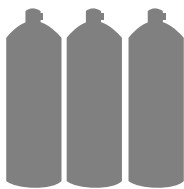




CONNECT AND START !

A REAL PLUG&PLAY SYSTEM

TECHNOLOGY COMPARISON



HIGH PRESSURE NITROGEN TANKS

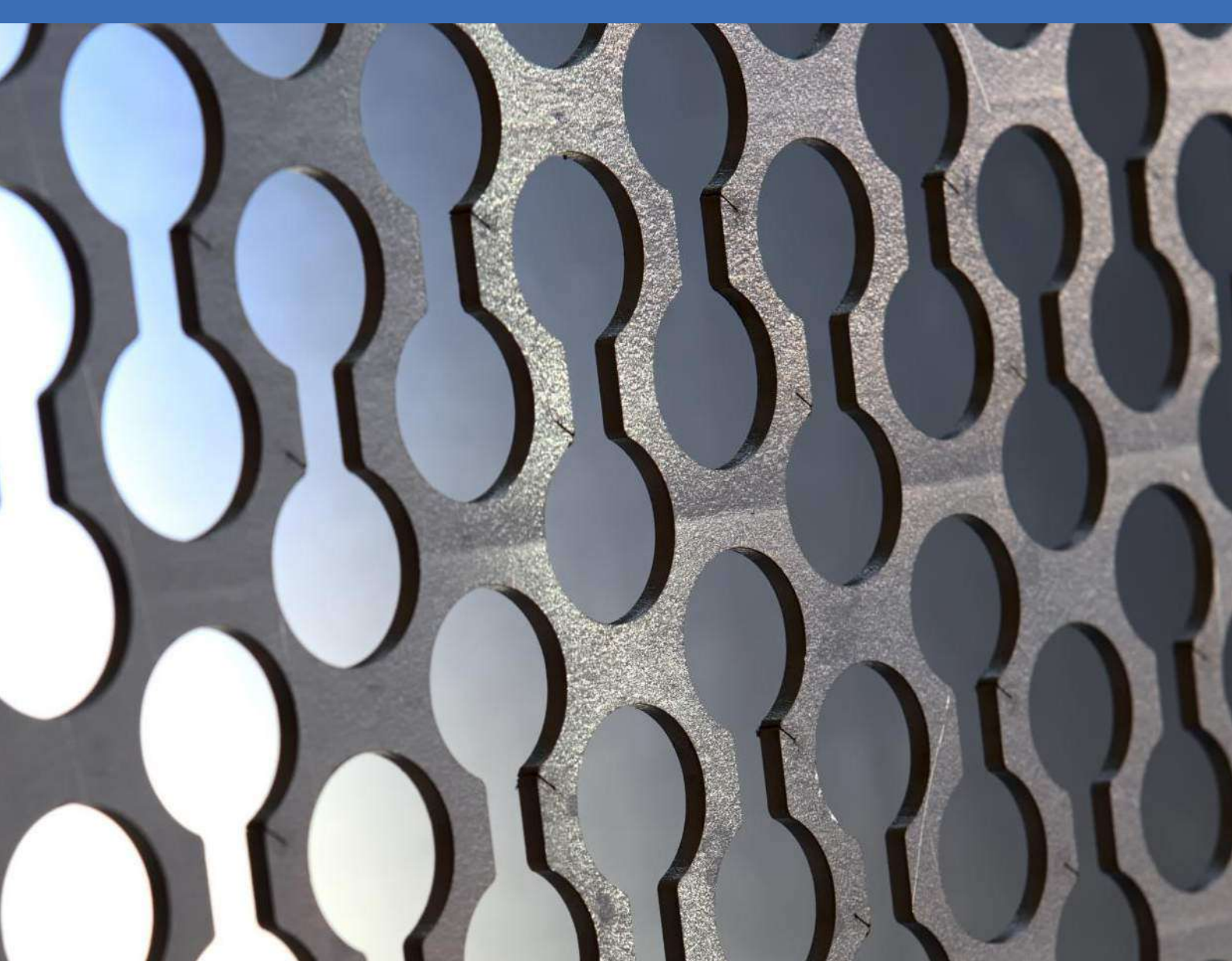


SAFETY	Explosion risk due to cylinders handling and high pressure (200 bar).	Full automatic operation with safety check, no cylinders handling.	
ECONOMICS	Nitrogen cost is formed by transport cost, cylinder rental and gas cost. No power needed.	Nitrogen cost is only due to the electricity needed to run the air compressor.	
AVAILABILITY	Nitrogen supply is subject to gas supplier availability. Downtime due to cylinders switch.	Nitrogen is continuously available without interruption - independency from gas suppliers.	
PURITY	Possibility of variations in gas purity due to different batches and contamination.	Gas quality is monitored in real time through PLC control.	
LOGISTICS	Space needed to store tanks, qualified personnel and vehicles needed for their handling.	Small footprint, NitroBOX can be installed both indoor and outdoor.	



TECHNICAL DATA

		Box130	Box200
Nitrogen production	m³/day	320	480
Nitrogen Purity	%	99,99	
Nitrogen pressure	bar	40	
Nitrogen tank capacity	Liters	500@40 bar(g)	
Compressed air consumption	m³/h	65@8 bar(g)	95@8 bar(g)
Power consumption	kWh	3	3,5
Installed power	kW	6	6
Voltage	400V / 50-60Hz 3PH + N		
Interface	Touchscreen display		
Noise	< 80 dbA (1 meter)		
Installation	Indoor/Outdoor (covered and not directly exposed to the sun)		
Dimensions	Cm	300x165x220h	
Weight	Kg	2450	2600
Communication	RS485, Ethernet		
Certifications	CE - PED		



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NitroBox is designed and produced in Italy by



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