

# ÖZAK Nitrogen Generators Laboratory Series

The economical, reliable and practical solution for nitrogen gas needs.



ÖZAK nitrogen generators produce nitrogen air and offer a cost-effective, reliable and safe nitrogen gas supplies such as cylinder or liquid.

gas from compressed alternative to traditional

Nitrogen is used as a clean, dry, inert gas primarily for removing oxygen from products and/or processes.

ÖZAK Laboratory series is a portable plug-and-run type nitrogen generator complete with all auxiliary equipment such as compressor, dryer etc mounted on a common chassis with wheels. It is developed for anyone who needs a portable, low cost nitrogen supply. Laboratories, air conditioning installers, small food packers to name a few.

## Features

- ✓ Operates on PSA (Pressure Swing Adsorption) principle
- ✓ Proprietary design
- ✓ Simple operator interface
- ✓ Optimum instrumentation
- ✓ Best quality robust components
- ✓ Low noise
- ✓ Oil-free compressor

## Benefits

- ✓ High nitrogen purities (up to %99.999) can be achieved economically
- ✓ High efficiency, low nitrogen cost, compact sizes
- ✓ Easy to use
- ✓ No unnecessary electronics that complicate to use and maintain
- ✓ Years of uninterrupted service with zero service calls
- ✓ Can be use in silent rooms
- ✓ No change of carbon filter elements



## Technical Data

- Air separation principle : Pressure Swing Adsorption
- Nitrogen supply pressure : ≤ 6 bar
- Power requirement : 220 VAC (Other voltages optional)
- Power consumption : 0,40 / 0,75 / 1,5 kW (LAB-0,5 / LAB-1 / LAB-2)
- Nitrogen storage tank volume : 20 lt
- Operating environment : Should be installed in a covered and well-ventilated area
- Operating temperature : +5/+40°C

## Standard Instrumentation

- Oxygen level is automatically adjusted, continuously measured and displayed.
- If oxygen content is higher than a user programmable preset value, then generated nitrogen is diverted to waste so that the product does not become contaminated.
- Stop automatically when the nitrogen storage tank pressure rises to a preset value. Shall start automatically when the pressure drops. This pressure set value can be adjusted by the user.
- Nitrogen purity can be adjusted by the user.
- **Displays:** Percent oxygen, pressure in the three tanks, Operating hours, On/Off indicator, Nitrogen tank full indicator

## Optional Instrumentation and accessories

- Nitrogen flow rate indicator.
- We can provide for any extra instrumentation which is technically possible (touchpad operator panel, remote access and diagnostic, recording process parameters etc.). Please advise us of your extra requirements.

## Weights, Dimensions and Capacities:

	NITROGEN PURITY / PRODUCTION CAPACITY (Nm <sup>3</sup> /h)							Dimensions (cm)	Weight (kg)
	%95	%98	%99	%99,5	%99,9	%99,99	%99,999		
<b>LAB-0,5</b>	0,94	0,57	0,47	0,40	0,27	0,19	0,12	125 x 90 x 85	110
<b>LAB-1</b>	1,89	1,14	0,95	0,80	0,54	0,38	0,23	130 x 90 x 85	120
<b>LAB-2</b>	3,77	2,29	1,90	1,59	1,09	0,76	0,47	140 x 100 x 100	180

- Dimensions and weights are approximate. May vary depending on the components used
- We reserve the right to revise the specs as needed

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