

DESIGN AND PRODUCTION
OF LABORATORY
GAS GENERATORS



ZA series

NITROGEN
GENERATORS

The constant and completely
autonomous supply of nitrogen flux



Zero Air series

The CINEL ZA series Air Generators produce laboratory grade purified and hydrocarbon free air from an existing in house oil free compressed air supply, eliminating the need for inconvenient high-pressure gas cylinders. The CINEL ZA Series Zero Air Generators remove HC pollutants to less than 0.1 ppm, CO to less than 0.1 ppm and all kinds of particles.

The system is designed to be a complete turnkey, is easy to install, and requires only minimal annual maintenance. The pretreated air passes through a coalescing filter to eliminate oil, water and the particles higher than 5 microns. The hydrocarbons including methane are removed by oxidation on a platinum/palladium catalyst heated at high temperature. A particle filter at the exit of the catalyst, makes it possible to eliminate the residual particles from outgoing flow.



Application

GC-FID
GC-FPD, GC-NPD

Technical data

	ZA 1500	ZA 3000	ZA 6000
FLOW (l/min)	1.5	3	6
HC & CO out	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
MAX CO in	50 ppm	50 ppm	50 ppm
MAX HC in	100 ppm	100 ppm	100 ppm
MAX TEMP. in	40 °C	40 °C	40 °C
PRESSURE in	4.5 - 10 bar	4.5 - 10 bar	4.5 - 10 bar
PRESSURE drop	< 1 bar	< 1 bar	< 1 bar
STABILITY (min)	40	40	40
In/out CONNECTIONS	1/4 - 1/8 (NPT)	1/4 - 1/8 (NPT)	1/4 - 1/8 (NPT)
POWER	220 V / 50 Hz or 110 V / 60 Hz	220 V / 50 Hz or 110 V / 60 Hz	220 V / 50 Hz or 110 V / 60 Hz
WEIGHT (kg)	18	18	20
DIMENSIONS (cm)	28x43x17H	28x43x17H	28x43x17H
WORKING TEMP.	Amb. +20°C	Amb. +20°C	Amb. +20°C

OTHER PRODUCTS

NITROGEN GENERATORS **N₂**

HYDROGEN GENERATORS **H₂**

OXYGEN GENERATORS **O₂**

CINEL® s.r.l.
Gas Generators Technology