

CINEL®

Gas Generator Technologies

DESIGN AND
PRODUCTION OF
LABORATORY
GAS
GENERATORS

N_2 H_2 O_2 ZERO AIR



ZEFIRO
zero LC-MS

**NITROGEN
GENERATORS**

ZEFIRO series

ZEFIRO zero

The nitrogen generator ZEFIRO "zero" uses membranes technology. Compressed air is forced through a hollow fibers membrane, with selective permeation of the different components, nitrogen, oxygen, CO₂, water vapor and traces of rare gases (Ar, Co), depending on the rate of diffusion. The rate of diffusion of nitrogen through the membrane is slower than the other components, which thus flow outside of the fiber membrane, leaving nitrogen inside only.



Application

LC/MS

Technical data

FLOW RATE	16, 22, 40, 80, (120) L/min
PURITY	99.5% @ 7 bar
AIR INLET FLOW REQUIRED	8 bar
NITROGEN FLOW QUALITY REFERRED TO SOLID PARTICULATES	class 1 ISO 8573-1:2010, referred to oil : class 1 ISO 8573-1:2010 <0.003 mg/m ³
DEW POINT	-40°C
NO INTERNAL COMPRESSOR	Need to be connected to an existing clean and dry compressed air network.
EASY AND QUICK MAINTENANCE	only change filter element once per year.
NOISE	absent. No moving mechanical parts on the generator..
POWER	not required
CONNECTIONS	¼ G + quick connection for 10 mm pipe
WEIGHT	Kg. 40
DIMENSIONS	40x40x95H cm

OTHER PRODUCTS

HYDROGEN GENERATORS H₂

ZERO AIR GENERATORS ZA

OXYGEN GENERATORS O₂