



# CLAIND LABORATORY GAS GENERATORS

## zero air purifier

Claind's zero air purifiers produce ultra high pure zero air from a compressed air supply. Different models, designed for every kind of laboratory, are realized **in rack, desk and wall** version with output flow rate from 1 to 20 l/min.

Total hydrocarbons (THC) are reduced under 0.1 ppm allowing extremely low, flat and stable baseline of GC-FID analyzers, enhancing sensitivity and improving report analysis.

All is needed is a mains power supply, and a compressed air supply to produce ultra high purity zero air 24 hours per day. An **internal temperature controller** will maintain constantly the catalytic reactor to its optimum operating temperature.

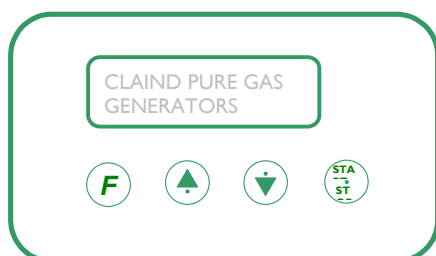
The heart of Claind's zero air purifiers is a **platinum-palladium catalytic reactor, designed and manufactured by Claind for its exclusive use.**

### MAIN APPLICATIONS

Applications are in the process analyzers for GC FID, THC, NOX, BTX AND SOX analyzers.

### FEATURES

Standard digital display and keyboard mounted on the desk version



**DISPLAY AND KEYBOARD**



**DESK VERSION**



**WALL VERSION**

### WORKING PRINCIPLE

The elimination of hydrocarbon, till less than 0.1 ppm, takes place through the strong oxidant power of the platinum and palladium catalytic reactor, which is maintained at the temperature of 385° C.

Optional filters, put in series mode with the reactor, allow the adsorption of the sulphurous (SOX) and nitrogenous (NOX) products and H<sub>2</sub>S and O<sub>3</sub>.

# AZ 2000 *series*

## gas characteristics

Operating pressure: 2-8 barg

Total Hydrocarbons residual < 0,1 ppm

HC removal efficiency:

- > 99% methane (CH<sub>4</sub>)
- > 99,5% aromatics (BTX) and hydrocarbons starting from C<sub>3</sub>H<sub>n</sub>
- > 99,9% carbon dioxide (CO<sub>2</sub>), hydrogen (H<sub>2</sub>) ethylene and propylene

## technical specifications & dimensions

MODEL*	FLOW RATE Nml/min	POWER RATING VA	Height cm	Width cm	Depth cm	Weight kg
AZ 2001 W	1	120	32	15	28	7
AZ 2005 W	5	120	32	15	28	7
AZ 2005 R	5	120	48 (3U)	32 (19")	13	8
AZ 2010 R	10	170	48 (4U)	32 (19")	18	10
AZ 2020 R	20	170	48 (4U)	32 (19")	18	10
AZ 2005 B	5	120	40	42	32	13
AZ 2010 B	10	170	40	42	32	13
AZ 2020 B	20	170	40	42	32	13

\* R=RACK, B=DESK, W=WALL

Electrical supply: 230 Vac 50 Hz, 110 Vac 60Hz  
Operating temperature: between 5°C and 40°C  
Consumables: none

### AIR SUPPLY CHARACTERISTICS

Dew point: .....< +3 °C  
Particles: .....< 0,5 µm  
Oil vapors: .....< 0,01 mg/m<sup>3</sup>

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