

Kombigerät - Pure Air Serie AG 2301

The air generator AG 2301 was developed to satisfy the need of pure and dry air of the laboratories, avoiding the use of gas cylinders. The main application for the AG is in gas chromatography.

The AG 2301 series is based on the **PSA system (Pressure Swing Adsorption)** the most efficient to reach such quality standard.

The generator can supply constantly up to 3 NI/min of dried air @ 6 barg pressure.

The **HC feature** allows the hydrocarbons removal down to values lower than 0,1 ppm, thanks to a catalytic reactor.

The **TOC feature** allows in addition to the HC removal also the removal of CO₂.

The model AG 2301 as well as all the CLAIND generators, is equipped with a high efficiency filtering system for in-coming air and , consequently, it does not require regular maintenance. The condensation formed during the drying process is vented automatically.

The generator AG series 2000 is provided with an electronic control device which allows to produce the needed quantity, by limiting the operation of the compressor which is placed in Stand-by condition when there is no consumption.



Main Features

- Built in quite air compressor
- Stand by mode allows to produce the only air Required
- Compact instrument, just 40 cm wide
- Catalytic reactor for hydrocarbon removal (HC feature)

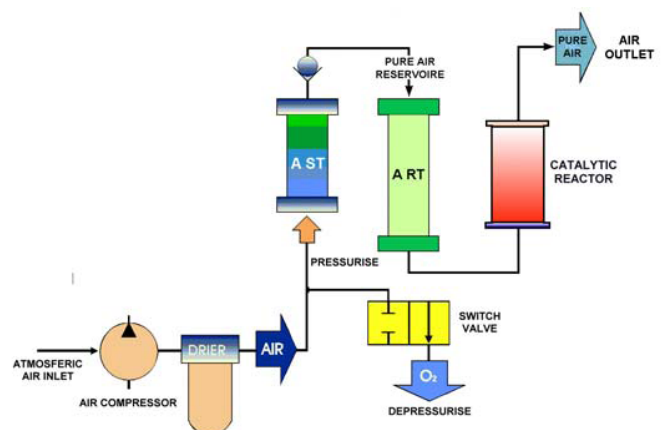
Working Principle

The generator AG 2301 is based on the PSA (Pressure Swing Adsorption) principle.

The pure air is generated by compressing ambient into a Carbon Sieve Bed (CMS).

Inside the CMS bed, moisture, and other contaminants are trapped allowing purified air to pass through into a holding reservoir.

Pure air from the reservoir is regulated to a fixed flow and pressure before flowing out the generator.



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Gas Characteristic

HC: hydrocarbons removal

TOC: hydrocarbons and CO2 removal

Hydrocarbons removal efficiency

HC removal efficiency:
 > 99% methane (CH₄)
 > 99,5% aromatics (BTX) and hydrocarbons starting from C₃H_n
 > 99,9% carbon dioxide (CO₂), hydrogen (H₂) ethylene and propylene.

Purity

	AG 2301 HC	AG 2301 TOC
Total hydrocarbons residual*	< 0,1 ppm	< 0,1 ppm
Moisture*	- 40°C dew point (ATP)	- 40°C dew point (ATP)
CO ₂ residual*	no	< 1 ppm

* tested in Claind laboratories in standard conditions @ 25°C

Purity

Technical Specifications	AG 2301 HC	AG 2301 TOC
Flow rate	3000 Nml/min	3000 Nml/min
Power rating	700 VA	700 VA
Electrical Supply	230 Vac - 50 Hz *	230 Vac - 50 Hz *
Noise level	< 60 dB	< 60 dB
Operating temperature	between 5°C and 40°C	between 5°C and 40°C
Outlet pressure	4 barg **	4 barg **
Consumables	filters and silencers	filters and silencers

* 115 Vac - 60 Hz available on demand

** barg available on demand

Dimensions

	AG 2301 HC	AG 2301 TOC
Height	83 cm	83 cm
Width	40 cm	40 cm
Depth	58 cm	58 cm
Weight	62 kg	67 kg