

GT Series Ultra Zero Air Generator

Description

The GC zero air generator produce dry and hydrocarbon-free air, using air from oil-free compressors, avoiding the need to use cumbersome cylinders.

The reduction of hydrocarbons, including methane, CO₂, NO_x, SO_x and carbon monoxide decrease the background noise level and gives the baseline much better stability, considerably increasing detector sensitivity and ensuring precise analytical results.

The GC only requires connection to a suitable oil free compressor.

Functioning principle:

The GC use 5 steps to transform ambient air into analytical grade air:

- the external oil-free compressor delivers air through a high efficiency filter that traps any particles that may damage the system. The filter has an automatic purge system, and traps oil, water and any other particles larger than 5 microns in size.
- Residual moisture and CO₂/CO molecules are removed by a dual active self regenerable molecular sieve system.
- An active charcoal filter removes specific molecules as NO_x, SO_x, ...
- The air leaving the filter enters a high temperature platinum catalyser, which through oxidation eliminates hydrocarbon molecules (including CH₄) down to < 0.1 ppm.
- A high efficiency filter is used to prevent any kind of particles from entering the instrument.



- Better detector performance
- Easy installation
- Lab safety
- Save money
- Improved lab efficiency

Applications



The ergonomic, compact and silent design makes the GC series generators the ideal solution for the following analytical applications:

- GC-FID
- GC-NPD
- GC-FPD
- GC-PFPD
- THA
- TOC

Specifications

HC, CO, NOX, SOx out :	< 0.1 ppm
CO2 out :	< 5 ppm
Max temperature in :	40°C
Working temperature :	Amb. + 15°C
Pressure in :	4.5 to 10 bar
(factory set at 7 bar)	
Pressure drop :	< 1 bar
Stability :	45 min
Connection in :	1/4
Connection out :	1/8 (NPT)
Power requirement :	230V/50-60Hz or 115V/60Hz or 100V/60Hz

	GC 1500	GC 3000	GC 6000	GC 15000	GC 30000
Flow (NI/min)	1.5	3	6	15	30
Weight (Kg)	9	9	25	25	25
Dimensions cm (HxWxD)	41x55x25	41x55x25	41x55x25	47x63x31	47x63x31

Options – Accessories – Spare parts

Models:

6900 18 800	GT zero air generator 1.5 NI/min – 230V/50-60Hz
6900 18 801	GT zero air generator 1.5 NI/min – 115V/60Hz
6900 18 802	GT zero air generator 1.5 NI/min – 100V/60Hz
6900 18 810	GT zero air generator 3 NI/min – 230V/50-60Hz
6900 18 811	GT zero air generator 3 NI/min – 115V/60Hz
6900 18 812	GT zero air generator 3 NI/min – 100V/60Hz
6900 18 820	GT zero air generator 6 NI/min – 230V/50-60Hz
6900 18 821	GT zero air generator 6 NI/min – 115V/60Hz
6900 18 822	GT zero air generator 6 NI/min – 100V/60Hz
6900 18 830	GT zero air generator 15 NI/min – 230V/50-60Hz
6900 18 831	GT zero air generator 15 NI/min – 115V/60Hz
6900 18 832	GT zero air generator 15 NI/min – 100V/60Hz
6900 18 840	GT zero air generator 30 NI/min – 230V/50-60Hz
6900 18 841	GT zero air generator 30 NI/min – 115V/60Hz
6900 18 842	GT zero air generator 30 NI/min – 100V/60Hz

Consumables:

6700 18 600	Filter housing complete with filter cartridge (external)
6700 18 605.1	Replacement cartridge for inlet filter
6700 18 610	Filter for zero air generator (internal)
6700 18 680	Activated carbon column for models 1500 to 6000
6700 18 681	Activated carbon column for models 15000 & 30000



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