

# Air Generator

## Make your analysis easier, simpler and more reliable.

YCM Air Generators produce dry and hydrocarbon-free air ( $\text{NO}_x/\text{SO}_x$  free and  $\text{CO}_2$  free with GT series) by using air from oil free compressors, thus avoid the need to use conventional bottles that are often complex to change.

Operation of the generator requires low levels of air consumption and electrical power. This complete turnkey system is engineered with the highest quality components, is easy to install, and requires only minimal annual maintenance.

With this zero air, you can decrease the background noise level because it gives the baseline much better stability, considerably increasing detector sensitivity and ensuring precise analytical results.

## Benefits

- **BETTER DETECTOR PERFORMANCE**

The reduction of hydrocarbons, including methane, and carbon monoxide to  $< 0.1$  ppm, ( $\text{NO}_x$  to  $< 1$  ppm with GT series) decreases the background noise level and gives the baseline much better stability, considerably increasing detector sensitivity and ensuring precise analytical results.

- **EASY INSTALLATION**

Just connect a suitable oil free compressor (optional) to almost immediately have air at the right grade. To save bench space, the unit can be easily installed on the lab wall.

- **LAB SAFETY**

No more bottles in the lab and expensive pipelines for air distribution.

- **SAVE MONEY**

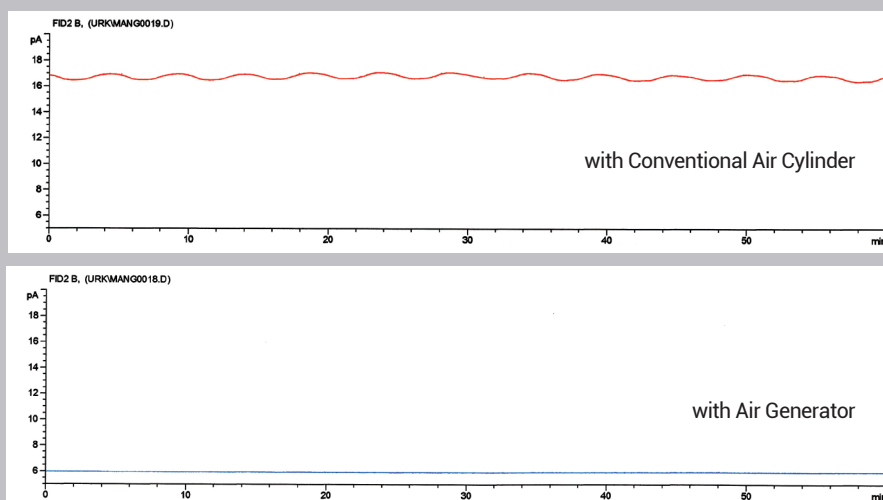
The unit only requires connection to a suitable oil free compressor and the mains: the investment can be paid back in less than a year.

- **IMPROVED LAB EFFICIENCY**

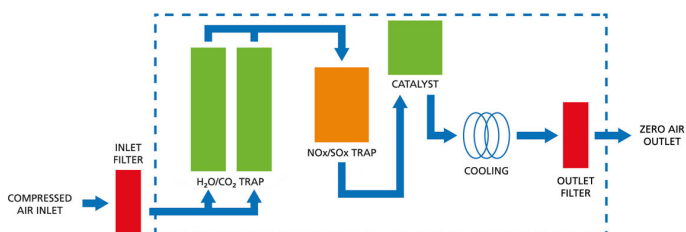
Continuous operation 24 hours a day cuts dead times for gas bottle changeover and avoids the need for tedious instrument recalibrations.

The following graph shows the difference of the FID signal changes with GC 1500 and without air generator.

FID signal without and with Zero Air Generator GC 1500



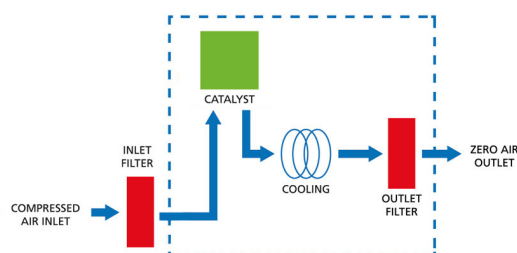
# Ultra Pure Air Generator – GT Series



## GT Series Specifications

MODELS	GT1500	GT3000	GT6000	GT15000	GT30000
Flow Rate (l/min)	1.5	3	6	15	30
HC & CO out	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
CO <sub>2</sub> out	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm
NO <sub>x</sub> , SO <sub>x</sub> out	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
Max CO in	50 ppm	50 ppm	50 ppm	50 ppm	50 ppm
Max HC in	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm
Max temp. in	40 °C	40 °C	40 °C	40 °C	40 °C
Pressure in	4.5~10 bar	4.5~10 bar	4.5~10 bar	4.5~10 bar	4.5~10 bar
Pressure drop	< 1 bar	< 1 bar	< 1 bar	< 1 bar	< 1 bar
In/out connections	1/4~1/8	1/4~1/8	1/4~1/8	1/4~1/8	1/4~1/8
Weight (kg)	9	9	25	25	25
Power	110~120V 60 Hz / 220~240V 50 Hz				
Dimensions (mm)	410H X 550W X 250D			470H X 630W X 310D	
Working temp.	Amb. +15 °C				
Applications	GC-FID/NPD/FPD/PFPD, THA(Total Hydrocarbon Analyzer), TOC(Total Organic Carbon), DSC(Differential Scanning Calorimeter)				

# Pure Air Generator – GC Series



## GC Series Specifications

MODELS	GC1500	GC3000	GC6000	GC15000	GC30000
Flow Rate (l/min)	1.5	3	6	15	30
HC & CO out	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
Max CO in	50 ppm	50 ppm	50 ppm	50 ppm	50 ppm
Max HC in	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm
Max temp. in	40 °C	40 °C	40 °C	40 °C	40 °C
Pressure in	4.5~10 bar	4.5~10 bar	4.5~10 bar	4.5~10 bar	4.5~10 bar
Pressure drop	< 1 bar	< 1 bar	< 1 bar	< 1 bar	< 1 bar
In/out connections	1/4~1/8	1/4~1/8	1/4~1/8	1/4~1/8	1/4~1/8
Weight (kg)	5	9	12	22	22
Power	110~120V 60 Hz / 220~240V 50 Hz				
Dimensions (mm)	410H X 550W X 230D				
Working temp.	Amb. +15 °C				
Applications	GC-FID/NPD/FPD/PFPD, THA(Total Hydrocarbon Analyzer), TOC(Total Organic Carbon), DSC(Differential Scanning Calorimeter)				