

TriGas Generators

for Applied Biosystems LC/MS/MS



Gas on Demand, up to 10 lpm N₂, 23 lpm Zero Air and 8 lpm Dry Air

The Parker Balston TriGas Generators are complete engineered systems designed to purify compressed air into pure nitrogen, zero grade air (0.1ppm THC) and dry (-40°C dewpoint) air. The gases exceed the purity, flow and pressure requirements for the curtain, source and exhaust gases on all Applied Biosystems LC/MS/MS instruments.

The TriGas Generators can easily be connected to an existing compressed air supply. Alternatively complete 'plug and play' systems including ultra quiet reliable scroll compressors are available.



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Product Features:

- Specifically designed to supply curtain, source and exhaust gas for LC/MS/MS
- Purity up to 99.999% for organics
- 10,000 hour/3 year compressor warranty
- Special design ensures ultra quiet operation
- Phthalate-free nitrogen
- Complete 'Plug and Play' system approved by AB Sciex

Gas distribution is via independent stainless steel outlets carefully matched to the instrument. Integral flow and pressure control on each outlet eliminate the requirement for additional gas management systems.

The systems consist of 3 main functional technologies: proprietary nitrogen membranes, proprietary air membranes and heated catalyst module. Compressed air is pre-filtered by

high efficiency coalescing and carbon filters to remove all contaminants down to 0.01 micron.

Nitrogen membranes separate the air into a concentrated nitrogen stream, air membranes separate the moisture from the air and the heated catalyst module removes the hydrocarbons. Final absolute membrane filtration ensure optimum gas quality.

Principal Specification

Model	LCMS-5000	LCMS-5001T	LCMS-5001NT
Purity			
Curtain-Gas (Nitrogen)	99.9 %	99.9 %	99.9 %
Source Gas (UHP Zero Grade Air)	<0.1ppm Total Hydrocarbons	<0.1ppm Total Hydrocarbons	<0.1ppm Total Hydrocarbons
Exhaust Gas (Dry Air)	-40°C Dew Point	-40°C Dew Point	-40°C Dew Point
Flow Rates			
Curtain-Gas (Nitrogen)	Up to 10 lpm	Up to 10 lpm	Up to 10 lpm
Source Gas (UHP Zero Grade Air)	Up to 23 lpm	Up to 23 lpm	Up to 23 lpm
Exhaust Gas (Dry Air)	Up to 8 lpm	Up to 8 lpm	Up to 8 lpm
Includes Compressor	Yes	No	No
Delivery Pressure			
Curtain-Gas (Nitrogen)	5.5 bar	5.5 bar	5.5 bar
Source Gas (UHP Zero Grade Air)	7.6 bar	7.6 bar	7.6 bar
Exhaust Gas (Dry Air)	4.1 bar	4.1 bar	4.1 bar
Inlet Connection	Includes Compressor	3/8" Compression Fitting	3/8" Compression Fitting
Outlet Connection	1/4" SS Compression (3 off)	1/4" SS Compression (3 off)	1/4" SS Compression (3 off)
Ambient Temperature	10 to 35°C	10 to 35°C	10 to 35°C
Electrical Requirements	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz
Power Consumption	3000 Watts	360 Watts	360 Watts
Dimensions (H x W x D)	1090 x 1140 x 640 mm	1090 x 510 x 640 mm	1040 x 580 x 410 mm
Weight (Shipping)	256 Kg (350)	102 Kg (150)	50 Kg (94)

Ordering Information

Description	Model Number
Complete Source LC/MS TriGas Generator including compressor	LCMS-5000EU OR LCMS-5000UK
Source LC/MS TriGas Generator including receiver tank	LCMS-5001TEU OR LCMS-5001TUK
Source LC/MS TriGas Generator	LCMS-5001NTEU OR LCMS-54001NTUK
Installation Kit	IKLCMS-5000

Maintenance Items	Model Number	Change Frequency
Maintenance Kit for LCMS 5000 and 5001T	MK5028	12 Months
Maintenance Kit for LCMS 5001NT	MK5029	12 Months