

Texol Gas Generator Selection Guide

Generators for Gas Chromatography

Instrument	Gas requirement	Purity	Flow rate	Generator
GC-FID	Hydrogen for fuel gas	99.99999%	20-50ml/min	HYDRO-Gen
	Zero air for flame gas	>0.01ppm	250-500ml/min	ZeroAir
	Hydrogen for capillary carrier gas	99.99999%	10ml/min	HYDRO-Gen
	Nitrogen for packed carrier gas	99.9995%	20-50ml/min	MicroGeN ₂
	Nitrogen for make-up gas	99.9995%	20-50ml/min	MicroGeN ₂
GC-FPD	Hydrogen for fuel gas	99.99999%	50-100ml/min	HYDRO-Gen
	Zero Air for flame gas	>0.01ppm	90-120ml/min	ZeroAir
GC-NPD	Hydrogen for capillary gas	99.99999%	>50ml/min	HYDRO-Gen
	Nitrogen for make-up gas	99.9995%	>30ml/min	MicroGeN ₂
GC-ECD	Nitrogen for carrier gas	99.9995%	>60ml/min	MicroGeN ₂
	Nitrogen for make-up gas	99.9995%	>100ml/min	MicroGeN ₂
GC-TCD	Hydrogen as carrier gas	99.99999%	>50ml/min	HYDRO-Gen
GC-ATD	Dry air	-70°C dew point	>2L/min	DryAir Mini 70L
GC-AED	Nitrogen as carrier gas	99.9995%	>1l/min	NG1
GC-ELCD,HALL	Hydrogen as reaction gas	99.99999%	70-200ml/min	HYDRO-Gen

Generators for LCMS Instruments

Instrument	Gas requirement	Purity	Flow rate	Generator
Waters-Micromass	Nitrogen	99.5%	20L/min	NG-LCMS 20M
Applied Bio systems API 3000 API 4000	Nitrogen	99.5%	12L/min	NG-LCMS ABS
	Zero Air	>0.01ppm	8L/min	
	Dry Clean Air Exhaust gas	Oil Free	4L/min	
ThermoFinnigan	Nitrogen	99.5%	20L/min	NG-LCMS 20M
Shimadzu	Nitrogen	99.5%	20L/min	NG-LCMS 20M
Joel	Nitrogen	99.5%	20L/min	NG-LCMS 20M

Generators for Analysers

Instrument	Gas requirement	Purity	Flow rate	Generator
TOC	CO ₂ free dry air for carrier gas	>0.1ppm CO ₂	100-500ml/min	TOC Generator
	Nitrogen for combustion gas	99.9995%	50-700ml/min	MicroGeN ₂ - NG1
THA	Hydrogen for fuel gas	99.99999%	50-500ml/min	HYDRO-Gen
	Zero Air for FID	>0.01ppm THC	5-50ml/min	ZeroAir
DSC	Air for Shield gas	-70°C dew point	100ml/min	DryAir Mini 70L
TGA	Nitrogen or	99.9995%	100ml/min	MicroGeN ₂
	Dry air as furnace gas	70°C dew point	100ml/min	DryAir Mini 70L
TOD	Nitrogen carrier gas	99.999%	300ml/min	MicroGeN ₂
CO ₂ Analyser	Calibration Air	>0.1ppm CO ₂	500ml-1L/min	CO ₂ -Free Air

Generators for Spectroscopy

Instrument	Gas requirement	Purity	Flow rate	Generator
FT-IR Spectrometer	Purge gas for sample compartment Optics air bearing & microscope	Dry CO ₂ Free air	14-85L/min	CO ₂ -Free Air
NMR Spectrometer	Air for lifting spinning & ejecting	Dry clean air	Up to 500L/min	DryAir Maxi
ICP Spectrometer	Nitrogen for purge gas	99.99%	Up to 9L/min	NG5
AA Spectrometer	Air for oxidant gas	Dry clean air	20-200L/min	DryAir Midi

Generators for Laboratory applications

Instrument	Gas requirement	Purity	Flow rate	Generator
Circular Dichroism	Nitrogen	99.995%	Up to 20L/min	NG range
Laser	Nitrogen Purge gas for the optics	99.9995%	250cc/min	MicroGeN ₂
Auto samplers	Dry Air for pneumatics	Dry & clean	<28l/min	DryAir Mini 70L
Turbovaps	Clean dry air or	95-99%	<60L/min	DryAir Midi
	Nitrogen for drying gas			NG-LCMS