

THEMISTO MP

Combined N₂/Air Gas generator for MP-AES

Reference : THEMISTO.MP



Description

The THEMISTO MP dual flow generator has been specifically designed to meet the Nitrogen for plasma support gas monochromator purge and air supply for POP gas or monochromator air purge for MP-AES instrument.

The THEMISTO MP has two operation modes :

Either 25 L/min N₂ at 99.5% for organic analysis or 10 L/min N₂ at 99.95% for Sulfur analysis with a supporting air supply of up to 36.5 L/min.

The THEMISTO MP is available with integrated oil free air compressor using the **Energy Saving Technology mode (EST)**. Fitted with an oxygen sensor, THEMISTO MP will alert you when N₂ purity has been reached.

The Generator is controlled using the latest color touch screen technology to display the process in real time, inlet/outlet pressures and status of the system with remote access for diagnostic control.



UNIQUE AND INTELLIGENT OPERATOR
INTERFACE WITH REMOTE ACCESS

Applications

MP-AES

Benefits & Savings

IMPROVE ANALYTICAL INSTRUMENTS PERFORMANCE

The production of a constant flow of gas improves the consistency of the analysis results and hence reproducibility.

IMPROVE LABORATORY EFFICIENCY

The relatively high gas volumes required by MP-AES instruments make cylinder supply inappropriate for such applications. A constant, uninterrupted gas supply eliminates interruptions of analyses to change cylinders.

IMPROVE ECONOMY

- Quick return on investment < 1 years
- No gas cylinder rental bottles, no price inflation

IMPROVE SAFETY

Nitrogen and Air produced at low pressure and ambient temperature removes the hazards associated with high pressure cylinders and liquid Dewar's.

Standard Features

- Intelligent color touch screen to provide simple and user friendly management of all functions of the unit
- Fully regenerative PSA technology
- Complete 'Plug and Play' system specifically designed for the Agilent MP-AES
- Two operation modes for Organic or Sulfur analysis
- With integral oil free air compressor
- Quiet thanks to the Soundproofed compressor box and anti-vibration features
- Auto start
- Fast start-up purity < 30 min
- Audible alarm display and Visual maintenance indication with history log
- Outlet flow indicator, with oxygen sensor fitted
- Energy Saving Technology (EST) :
 - Switch off the compressor when gas supply is not required
 - Allowing low energy consumption and increasing durability of the compressor
- Remote PC monitoring and diagnostic analysis via USB to interface the unit with customer's PC software (allow to carry out checks and maintenance effectively, only via a remote connection)
- Compact design
- Fit with wheels

N₂
AIR

MODEL	THEMISTO.MP		
GENERALS INFORMATIONS			
Gas	Nitrogen		Air
Max Flow rate	25 L/min	10 L/min	36.5 L/min
Max pressure	6 bar (87 psi)		6 bar (87 psi)
Nitrogen purity	> 99.5%	99.95%	-
Dew Point	-		-20°C (-4°F)
Particles	0.01 μ		
Touch screen	Touch screen (operating parameters, system status, alarms and maintenance)		
Built with O2 sensor	Yes (to control N2 purity)		
Max Relative Humidity	80% RH @ 30°C		
Temperature range	From 5 - 25°C (41 - 77°F)		
Max Altitude	4000 Meters		
Noise level @ 1M	60 dB (A)		
Dimensions (W x H x D)	47.5 x 66.2 x 79 cm (18.7" x 26" x 31")		
Weight (kg/lbs)	155 / 202		
Power consumption	2200 VA		
Electrical supply	220 - 240 V ac / 1 ph / 50 - 60 Hz		
	110 - 120 V ac / 1 ph / 50 - 60 Hz		
Fuse	10A		
CONNECTIONS			
Nitrogen/Air outlet	2x 1/4" GF		
COMMUNICATION			
USB/RS232/PC Control	In series		

GoldService
 — Satisfaction Guaranteed —

The products are guaranteed 24 months*. Beyond, your investment continues to be supported by our maintenance program **[Gold Service]**. Our world class technical assistance offers Programmed preventive maintenance to ensure optimal performance of your Gas generator F-DGSI and a priority intervention in case of failure.

*Year 2 of warranty subject to generator being serviced at end of the first year by a F-DGSI-approved agent in accordance with fixed annual maintenance schedule.
 For full terms and conditions, visit www.f-dgs.com

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