

## MSQ18LA Nitrogen Gas Generator



*The MSQ18LA Nitrogen Gas Generator delivers a premium solution for nitrogen requirements and comes factory preset to the required flow rates, pressures, and purities for the MSQ™ family of mass spectrometric detectors. It operates 24 hours per day, seven days per week in either electrospray ionization (ESI) or atmospheric-pressure chemical ionization (APCI) mode to suit your most demanding workload. With the ability of the MSQ detectors to run continuously for extended periods—even for samples using involatile buffers or with dirty matrices—an MSQ18LA is a must to ensure the highest productivity from your instrument. Interruptions to analysis due to cylinder changes will be a thing of the past.*

### Advantages of the MSQ18LA

With constant pressure, flow, and purity, the MSQ18LA gives you complete independence from cylinder changes, gas costs, and associated administration charges. In addition, you will have the maximum safety, convenience, and productivity for your instrument.

- Constant gas supply
- Up to 15 times more economical than cylinders
- Simple installation
- Minimal servicing requirements
- Internal air compressor
- CE/UL approved
- Energy efficient

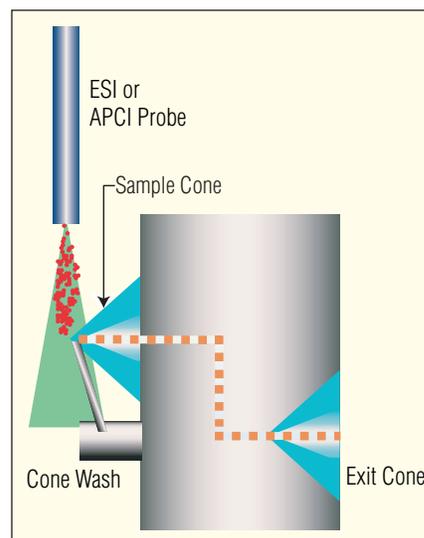


Figure 1. Thermally assisted pneumatic nebulization in the MSQ MS.



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Quiet in operation, the MSQ18LA uses membrane technology to selectively remove oxygen, moisture, and other gases to leave clean, dry, phthalate-free nitrogen from an internal, oil-free air compressor, ensuring many years of operation with no fall-off in purity or performance. It has been specifically designed to supply nitrogen to all MS systems that require nitrogen at a maximum flow rate of 18 L/min.

This highly sophisticated nitrogen generator features new technology inside and out, resulting in an uninterrupted supply of gas and, therefore, maximum MS uptime. The intelligent programmable logic controller (PLC) features a total run hour count for the compressor and also highlights the time to your next service. This enables you to schedule service and minimize system downtime, making this one of the most reliable solutions for your gas requirements. A robust design and quality components further lengthen the lifetime of the internal compressor.

#### Features and Benefits

- Sleep mode function—minimizes compressor run time, prolonging life of compressor
- Improved reliability—maximizes generator uptime
- PLC control system—total run hour count for compressor provides a service countdown
- Mobile—flexibility to position generator where required, even under standard lab bench
- Simple and user-friendly—easy to use and to service
- Quiet operation—not audible in average lab environment
- Simple installation—up and running in minutes
- Low cost-of-ownership—minimum service requirements

### SPECIFICATIONS

*Max Flow Rate (ATP):*  
18 L/min

*Outlet Pressure:*  
7 bar/100 psi

*Air Compressor:*  
Yes

*Nitrogen Pressure Dewpoint:*  
-70 °C/-94 °F

*Particles >0.01 µm:*  
None

*Suspended Liquids:*  
None

*Phthalates:*  
None

*Commercially Sterile:*  
Yes

*Outlet:*  
1 × ¼" BSP Female

*Minimum/Maximum Operating Temperature:*  
5–25 °C/41–77 °F

*Maximum Relative Humidity:*  
70%

*Maximum Altitude:*  
2000 Meters/6561 ft

*Noise Level:*  
54 dB (A)

*Electrical Requirements:*  
230 × 50/60 Hz, 3.6 A

*Dimensions (H × W × D):*  
40 × 70 × 71 cm  
(16 × 28 × 28 in.)

*Weight:*  
60 kg/133 lbs  
85 kg/187 lbs shipping weight

### ORDERING INFORMATION

In the U.S. call 1-800-346-6390, or contact the Dionex Regional Office nearest you. Outside the U.S., order through your local Dionex office or distributor. Refer to the following part numbers.

MSQ18LA..... 068126  
Maintenance Kit..... 068349

The MSQ18LA is manufactured for Dionex Corporation by Peak Scientific Instruments, Inc.  
The MSQ and MSQ Plus are manufactured for Dionex by Thermo Fisher Scientific, Inc.  
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**Dionex Corporation**  
1228 Titan Way  
P.O. Box 3603  
Sunnyvale, CA  
94088-3603  
(408) 737-0700

**North America**  
U.S. (847) 295-7500  
Canada (905) 844-9650  
**South America**  
Brazil (55) 11 3731 5140

**Europe**  
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Australia (61) 2 9420 5233 China (852) 2428 3282 India (91) 22 2764 2735  
Japan (81) 6 6885 1213 Korea (82) 2 2653 2580 Singapore (65) 6289 1190  
Taiwan (886) 2 8751 6655

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