

ON736

Oxygen/Nitrogen

Specification Sheet

Instrument Range*		Precision**	
Oxygen:	0.0005 mg to 21 mg (0.5 ppm to 0.2% for a 1 g sample)	Oxygen:	0.00025 mg (0.25 ppm) or 0.5 % RSD, whichever is greater
Nitrogen:	0.0005 mg to 30 mg (0.5 ppm to 3.0% for a 1 g sample)	Nitrogen:	0.00025 mg (0.25 ppm) or 0.5 % RSD, whichever is greater
Calibration		Standards (single or multi-point); manual; gas dose†	
Analysis Time§			
Oxygen:	He: 85 s	Ar: 95 s	
Nitrogen:	He: 100 s	Ar: 130 s	
Cycle Time§ (including outgas, purge, analysis delay, and analysis time)			
He Carrier Gas:	180 s	Ar Carrier Gas:	210 s
Sample Size	1 g (nominal)		
Detection Method	Non-Dispersive Infrared Absorption; Thermal Conductivity		
Chemical Reagents	<ul style="list-style-type: none">• Anhydrous Magnesium Perchlorate (MgClO4)• Sodium Hydroxide on an Inert Base• Oxygen/Moisture Indicating Tube‡• Rare Earth Copper Oxide• Copper Turnings, Sticks†		
Gas Requirements			
Carrier	Helium (99.99 % pure), 22 psi (1.5 bar) ± 5 %		Argon (99.999 % pure), 22 psi (1.5 bar) ± 5 %
Pneumatic:	Compressed Air, 40 psi (2.8 bar) ± 10 %, source must be oil and water free		
Gases Optional			
Gas Dose:	Carbon Dioxide, 99.99 % pure, 20 psi (1.4 bar) ± 10 %		
Gas Dose:	Nitrogen, 99.99 % pure, 20 psi (1.4 bar) ± 10 %		
Gas Flow Rates	Carrier: 480 cm³/min		Pneumatic: 280 cm³/min
Furnace	Impulse furnace with current and power control 7500 W maximum, liquid cooled		
Coolant	3.2L LECO Coolant		
Operation Conditions	Temperature: 15 °C to 35 °C (59 °F to 95 °F)		Rel. Humidity: 20 % to 80 %, non-condensing
Sound Pressure Level	61 dBa excluding vacuum (max reading at operator’s level per IEC/EN 61010-1)		
Dimensions††	36 in H x 28 in W x 34 in D (91 cm x 71 cm x 86 cm) with touch-screen monitor		
Electrical Power	230 V~ (+ 10/-15 %; at max load); 50 A, 50/60 Hz, Single Phase; 12500 Btu/h†		
Weight (approx.)	Analyzer: 400 lb (181 kg) without touch-screen monitor		

Part Numbers

ON736-XXXXC	Oxygen/Nitrogen Determinator with software and external PC
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Options

NOTE: Multiple configurations of options are available. Please contact your local LECO Sales Engineer for more details.

- Unit with PC, touch-screen monitor package (C)
- Optional mounted touch-screen monitor package (M)
- Optional automatic cleaner package (H)
- Optional performance package (P)
- Optional dual cooling upgrade package (D)



- * Use the following formula to calculate element concentration:
% element concentration = ((absolute element mass in mg)/(sample mass in mg))*100
- ** One , conformance tested by gas dose analysis.
- † Average output based on nominal operating parameters.
- § All times listed are nominal, actual times may vary based on method settings and application.
- †† Allow for a 6 in (15 cm) minimum access area around all sides.
- ‡ Optional.

