

# CHN628 Series Micro Oxygen Add-On Module

## Specification Sheet



<b>Instrument Range*</b>	Oxygen: 0.0008 to 2 mg
<b>Precision Range</b>	Oxygen: 0.0004 mg or <1% RSD (whichever is greater)
<b>Analysis Time</b>	Oxygen: 80 seconds
<b>Nominal Sample Weight</b>	2 mg
<b>Detection Method</b>	Oxygen: Optimized, low-noise, non-dispersive Infrared (IR) absorption
<b>Gas Requirements</b>	Carrier: Helium (99.99% pure) @ 35 psi (2.4 bar) ±10% Pneumatic: Compressed air (source must be oil and water free); 40 psi (2.8 bar) ±10%
<b>Furnace</b>	Resistance pyrolysis furnace up to 1300 °C
<b>Autoloader</b>	30-position (stackable to 120 samples)
<b>Instrument Requirements</b>	CHN628 Model
<b>Operational Control</b>	CHN628 Series Software
<b>Electrical Requirements</b>	230 V~ (±10%; at max load), 50/60 Hz, single phase, 24A; 14,126 Btu/hr**
<b>Environmental Conditions</b>	Operating Temp: 15 °C to 30 °C (59 °F to 86 °F) Humidity: 20% to 80%, non-condensing
<b>Sound Pressure Level</b>	52 dBA (max reading at operator's level per IEC/EN 61010-1)
<b>Physical Dimensions†</b>	15 in H x 12 in W x 22 in D (38 x 30 x 56 cm)
<b>Weight (approx.)</b>	91 lb (41 kg) Shipping Weight (approx.): 142 lb (64 kg)
<b>Regulatory</b>	Not EU RoHS compliant; No CE marking

### Part Numbers

CHN628OC	CHN628 with 628 Micro Oxygen Module Instrument Package
628OADD	628 Micro Oxygen Add-On Module; Compatible with the CHN628 Model
628OTRSM	628 Micro Oxygen Add-On Module; Compatible with the Micro TruSpec CHN/CHNS Models
628OTRS	628 Micro Oxygen Add-On Module; Compatible with the TruSpec CHN Models

### Optional Accessories

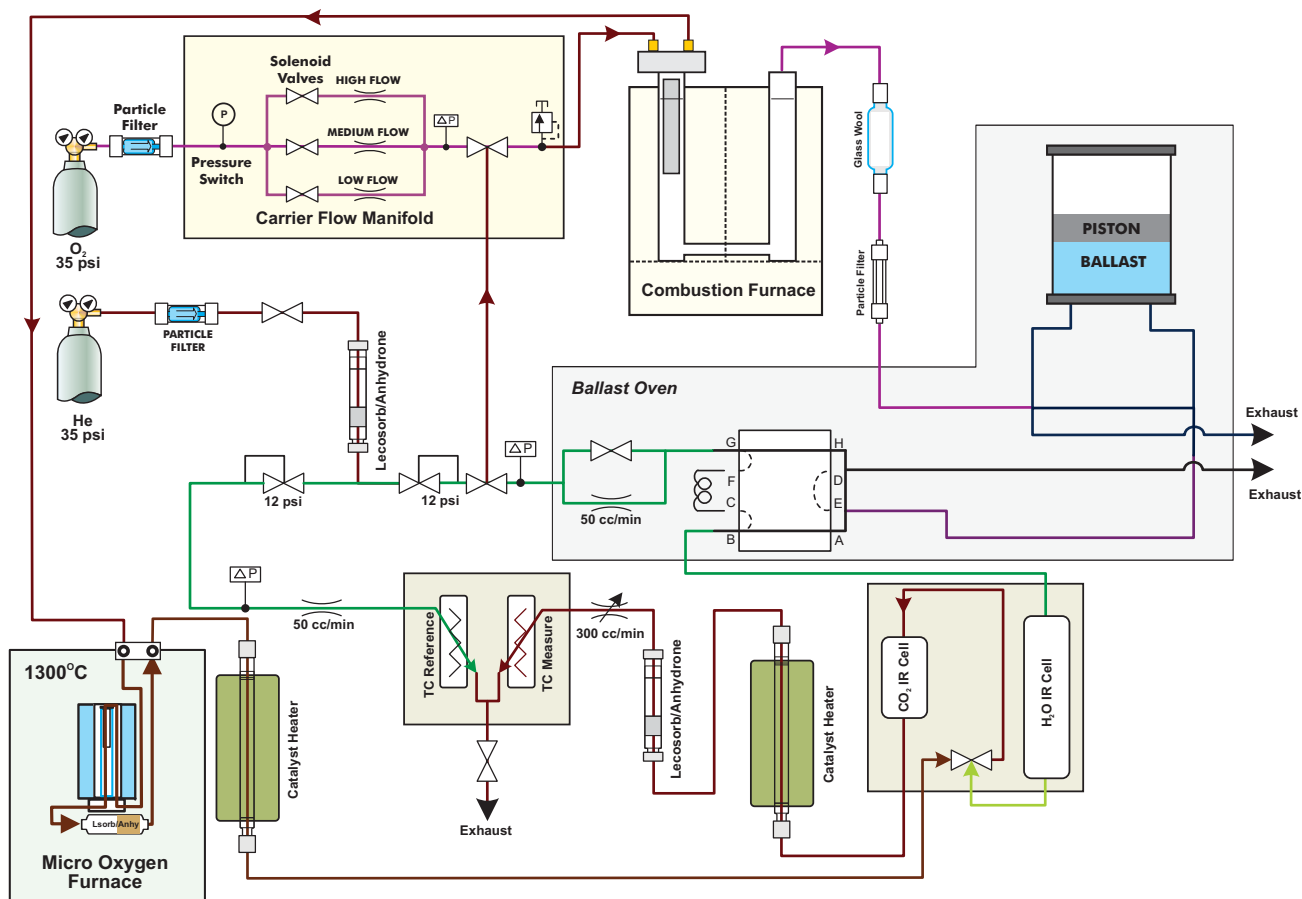
751-600-120	Six-Place Electronic Micro-Balance Kit
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\*Adjusting sample size may extend instrument range.  
 \*\*Average output based on nominal operating parameters.  
 †Allow a 6-inch (15 cm) minimum access area around all units.  
 V~ denotes VAC.

## Theory of Operation

The optional micro oxygen add-on module enables the CHN628 Series to determine oxygen content in organic matrices. Samples being analyzed for oxygen are placed into the autoloader of the micro oxygen add-on module and automatically dropped into a high-temperature pyrolysis furnace operating at 1300°C. The oxygen released during pyrolysis of the sample reacts with a carbon-rich environment in the furnace to form CO. The CO is swept from the furnace and converted to CO<sub>2</sub> before measurement via infrared detector (approximately 1 minute analysis time).

## Flow Diagram



Specifications and part numbers may change.  
Consult LECO for latest information.

3000 Lakeview Avenue | St. Joseph, MI 49085 | 800-292-6141 | Phone: 269-985-5496  
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