

ONH-2000

Oxygen / Nitrogen / Hydrogen Determinator

Specifications

ON operation		OH operation	
MEASURING RANGES			
Oxygen at 1 gram sample		Oxygen at 1 gram sample	
Low Oxygen 0.0 - 300 ppm ¹⁾	High Oxygen up to 2% ¹⁾	Low Oxygen 0.0 - 300 ppm ¹⁾	High Oxygen up to 2% ¹⁾
Sensitivity : 0.01 ppm Oxygen Indicating range: 0 - 100% Oxygen ²⁾		Sensitivity : 0.01 ppm Oxygen Indicating range: 0 - 100% Oxygen ²⁾	
Nitrogen at 1 gram sample		Hydrogen at 1 gram sample	
Low Nitrogen 0.0 - 300 ppm ¹⁾	High Nitrogen up to 2% ¹⁾	Low Hydrogen 0.0 - 50 ppm ¹⁾	High Hydrogen up to 1000 ppm ¹⁾
Sensitivity: 0.1 ppm Nitrogen Indication range: 0 - 100% Nitrogen ²⁾		Sensitivity: 0.01 ppm Hydrogen Indication range: 0 - 100% Hydrogen ²⁾	
ACCURACY			
Low Oxygen ±0.1 ppm or ±1% of Oxygen present		Low Oxygen ±0.1 ppm or ±1% of Oxygen present	
High Oxygen ±2 ppm or ±1% of Oxygen present		High Oxygen ±2 ppm or ±1% of Oxygen present	
Low Nitrogen ±0.1 ppm or ±1% of Nitrogen present		Low Hydrogen ±0.05 ppm or ±1% of present Hydrogen	
High Nitrogen ±2 ppm or ±1% of Nitrogen present		High Hydrogen ±0.5 ppm or ±1% of present Hydrogen	
GENERAL SPECIFICATIONS			
Detection method Solid State infrared absorption for Oxygen and thermal conductivity for Hydrogen and Nitrogen			
Normal sample weight			

1 gram
Normal analysis time 2 minutes
Chemicals C ₂ O Trap - Sodium Hydroxide / H ₂ O Trap - Magnesium Perchlorate / Catalyst - Copper Oxide / Schutzes Reagent
Calibration Standard samples and gas dosing device on request
Furnace temperature: up to 3000°C Furnace power: 0 to 8 kW
Gas required Nitrogen at least 99.995% pure ³⁾ 2 to 4 bar (30 to 60 psi) / Helium at least 99.995% pure ³⁾ 2 to 4 bar (30 to 60 psi)
Compressed air 2 bar (30 psi)
Interfaces Computer - serial ⁴⁾
Power requirements max 8500 Watts, 400 V AC ±10% 50/60 Hz 3 phase and neutral or 230 V AC ± 10% 50/60 Hz single phase on request
Dimensions Width Height Depth 55 cm (21") 80 cm (31.5") 60 cm (23.5")
Weigth approx. 140 kg
ACCESSORIES
Balance: 0.0001g to 60 g ± 0.0001 g
Computer: PC with HDD, 3.5" drive, CD-ROM, TFT flat screen and keyboard
Color printer with automatic cut sheet feed, other options on request

1) Other ranges on request. 2) Possible by reducing the sample weight. 3) 99.999% pure for low oxygen analysis. 4) Balance (serial) and printer (USB, parallel) are connected to the PC.

