

MKS MG2030 FTIR Rentals & Accessories

Analyzer Rentals | Calibration Gases | Testing & Field Support

Budget Friendly FTIR Rental Rates!

Contact Mark Winter or Evan Whetzel at 800.399.4236 or sales@ampcherokee.com

MKS MG2030 FTIR Analyzer 5 Day: \$4290 / Each Add'l Day: \$268
w/ 6-liter LN2 Dewar & Laptop Computer
 (Minimum 5-Day Rental)



FTIR Calibration Gases (w/ SF6 tracer)

Acetaldehyde 100ppm	1st Day: \$275 / Each Add'l Day: \$25
Methanol 100ppm	1st Day: \$275 / Each Add'l Day: \$25
HCL-Balance N2 100ppm	1st Day: \$275 / Each Add'l Day: \$25
Ammonia 50ppm	1st Day: \$275 / Each Add'l Day: \$25
N2O 1000ppm	1st Day: \$275 / Each Add'l Day: \$25
Formaldehyde 30ppm	1st Day: \$825 / Each Add'l Day: \$75
Nitrogen CEM Grade	1st Day: \$48 / Each Add'l Day: \$8



400°F Heated Filter/Pump 1st Day: \$396 / Each Add'l Day: \$66



Heated Sample Lines

100' Heated Sample Line	1st Day: \$180 / Each Add'l Day: \$30
50' Heated Sample Line	1st Day: \$132 / Each Add'l Day: \$22
25' Heated Sample Line	1st Day: \$96 / Each Add'l Day: \$16



FTIR Regulators

CGA 330 Single Stage, Purged, Stainless Steel	1st Day: \$50 / Each Add'l Day: \$10
CGA 705 Single Stage, Stainless Steel	1st Day: \$36 / Each Add'l Day: \$6



MKS MG2030 FTIR

Analyzer Specifications

Measurement Technique	FTIR Spectrometry
Spectral Resolution	0.5 cm ⁻¹
Scan Time	1-300 seconds
Infrared Source	Silicon Carbide @ 1200°C
Reference Laser	Helium Neon (15798.2 cm ⁻¹)
	Detector LN ₂ – cooled MCT
Purge Pressure	20 psig
Purge Flow	0.2 L/min of dry nitrogen or CO ₂ -free clean dry air with dewpoint < -70°C
Pressure Transducer	MKS Baratron® Capacitance Manometer
Purge Connection	1/4 inch Swagelok® quick connect
Dimensions	17.5"W x 12.5"H x 25.5"D
Installation	19" rack mount chassis
Power	120 VAC, 50/60 Hz, 3 amps
Weight	110 lbs. (50 kg)

Sampling Parameters

Sample Temperature	191°C
Sample Flow	up to 20 L/min
Sample Pressure	1 atm ±0.05

Gas Cell

Construction	fused silica-coated aluminum
Fittings	3/8 inch Swagelok® tubing
Mirrors	aluminum substrate, with rugged gold coating
Windows	ZnSe
O-rings	Viton®

Computer Requirements

Intel Pentium® PC	Microsoft® Windows® xP or Windows® 7 operating systems, Display (1024 x 768) Desktop or Notebook
Minimum Recommended Computer	Intel Pentium® III, 850 MHz, Microsoft® Windows® xP, 256 MB
Computer/FTIR Communications Communication Protocol:	RJ-45 Crossover Ethernet TOOLweb® (HTML based), OPC, Modbus TCP/IP

Selected Calibration Ranges

Formaldehyde	0 - 70 ppm	
Methane	0 - 250 ppm	0 - 3000 ppm
Carbon Monoxide	0 - 500 ppm	0 - 1%
Carbon Dioxide	0 - 40%	
Water Vapor	0 - 40%	
Hydrogen Chloride	0 - 1000 ppm	0 - 2000 ppm
Hydrogen Fluoride	0 - 10 ppm	
Nitrous Oxide	0 - 300 ppm	0 - 900 ppm
Ammonia	0 - 300 ppm	0 - 3000 ppm
Nitric Oxide	0 - 350 ppm	0 - 3000 ppm
Nitrogen Dioxide	0 - 150 ppm	0 - 2000 ppm
Sulfur Dioxide	0 - ppm	0 - ppm

Selected Lowest Detection Limits

(limits vary by matrix and scan time)

Formaldehyde	0.6 ppm
Methane	0.6 ppm
Carbon Monoxide	1.2 ppm
Carbon Dioxide	0.2 ppm
Water Vapor	0.25%
Hydrogen Chloride	1.5 ppm
Hydrogen Fluoride	0.2 ppm
Nitrous Oxide	0.1 ppm
Ammonia	0.5 ppm
Nitric Oxide	3.6 ppm
Nitrogen Dioxide	0.4 ppm
Sulfur Dioxide	0.6 ppm