

QM-125

125 MHz Benchtop Proton NMR Spectrometer



At 125 MHz, the revolutionary QM-125 NMR spectrometer is the highest-field benchtop NMR yet developed. It delivers the best resolving power, masssensitivity, and flow-chemistry capability of any benchtop NMR spectrometer.

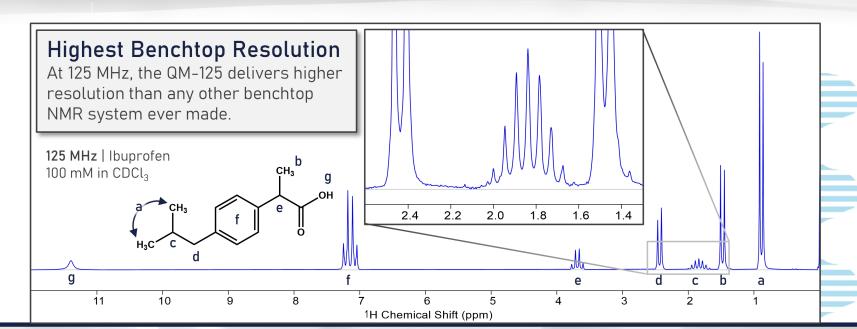
Key Features

- Highest spectral resolution (125 MHz, ¹H) benchtop NMR spectrometer
- High mass-sensitivity & low-volume detection
- Sample delivery by flow
- Easy walkup injection
- Hyphenation ready
- Light weight & compact
- Cost-effective with high ROI

Highlighted Applications

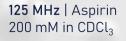
- Small molecule structure verification
- Small-volume samples
- Low-concentration samples
- · Reaction monitoring
- Undergraduate teaching labs

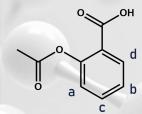
The Highest Resolution Benchtop NMR Ever

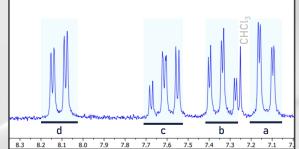


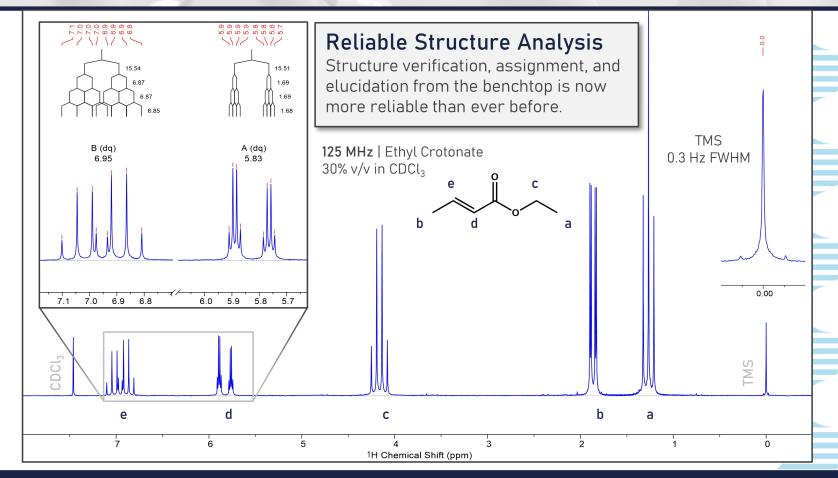
Best Spectral Dispersion

Our revolutionary permanent-magnet technology delivers greater spectral dispersion and baseline resolution, allowing for confident assignment of overlapping NMR peaks.





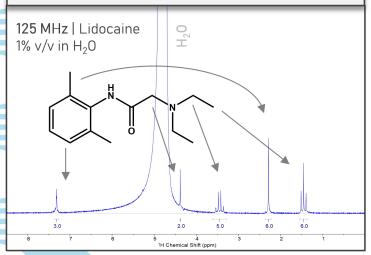




Unmatched Analytical Detection & Integration

Superb Mass-Sensitivity

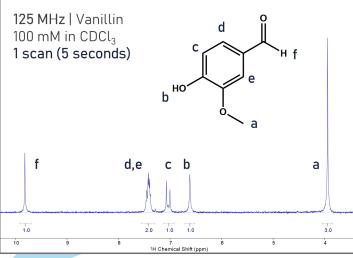
Detect analyte in sample-limiting conditions, even within the presence of protiated solvents.



Convenient Walkup Use

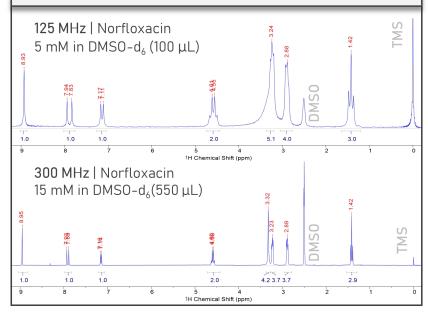
Load sample via direct syringe injection at the benchtop, fume hood, or cart. Collect data within seconds to minutes.





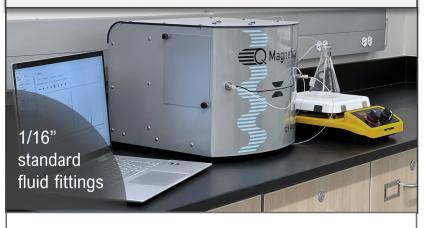
Comparable to High-Field

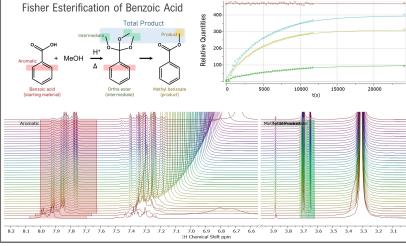
Acquire data comparable to higher field NMRs even at minimal concentrations and low volumes.



Reaction Monitoring Ready

The QM-125 is designed for flow-chemistry applications or any sample-delivery by flow set up.



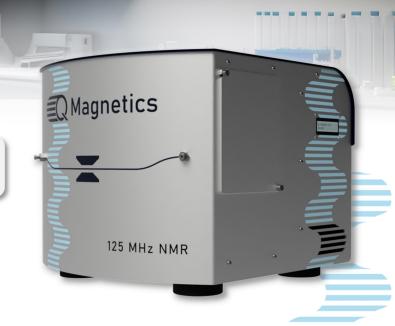




NMR FOR EVERYONE

QM-125 BENCHTOP NMR

The QM-125 is a single-channel, 125 MHz permanentmagnet benchtop proton NMR spectrometer designed for high-performance, hyphenation, and ease of accessibility at the lowest cost per MHz of any NMR spectrometer.



TECHNICAL SPECIFICATIONS

Operating frequency: 125 ± 2 MHz (¹H)

Field strength: 2.94 Tesla

Sample tube volume: 0.36 mL

Sample tube ID: 1.0 mm netics

Minimum sample volume: 5 μL

Operating temperature: 28-32 °C

Front panel fluid fittings: 1/16" standard

Weight: 62 lbs. (28 kg)

Dimensions: 37 × 34 × 30 cm

 $15.5 \times 13.4 \times 11.8$ in

Data Interface: USB 3 Power Supply: 110-240 V

50-60 Hz

RESOLUTION & SENSITIVITY

Linewidth < 0.55 Hz at 50% (FWHM) Signal to Noise S/N > 2810 (CHCl₃) S/N > 14 (1% EtBz) < 0.55 Hz Limit of Detection (FWHM) 23 nmol at 5 µL (min. sample volume) 29Si

<18 Hz

(baseline)

¹H NMR of TMS

Additional Features

- 1-Year Mestrelab Mnova NMR license
- QM Control software program
- Open-source with APIs for low-level functionality controllable via Python
- Virtually zero maintenance
- No cryogens or spinning

Installation, Support & Warranty

- Virtually guided remote installation
- Remote troubleshooting, support, and training from our highly experienced staff
- Industry-Standard 1-Year Parts & Labor Warranty (included)
- Extended warranties offered per-year basis

Visit our website to request a quote, demo, and learn about the QM-125!