

MODCON MOD-8200 60 MHz High Resolution FT-NMR System for Laboratory and At-Line Applications




Advantages

The Modcon MOD-8200 Permanent Magnet design requires no cryogenics, as the system is powered by one standard wall outlet (110/220v). Deuterated solvents are not required. Samples can be measured neat, in conventional protonated solvents, or in deuterated NMR solvents. Probes accept standard 5 mm or 10 mm NMR tubes. Flow cell options are also available. Software operates under Windows® 7 or Windows® XP. Complete automation of all NMR tasks (Acquisition, Processing, Integration, Results, Reporting) enables walk-up applications with minimum user training and/or experience. Spectral processing facilitates the use of a variety of chemometric based routines for multiple property measurements.

Specifications

Field Strength at 45 °C	1.4 Tesla
Fringe Field	Less than 1 gauss
Clear Bore Size	30 mm diameter
Operating Frequency	60.1± 1MHz 1H 54.6 ± 1MHz 19F 24.3 ± 1MHz 31P
Dimensions (HxWxD)	37.5 x 22 x 24 inches 560 x 460 x 460 mm
Weight	~325 lbs / ~160 Kg
Lab Probes	5 mm, 10 mm and Flow Cell
Non-Spin Resolution	Less than 2 Hz at half height and less than 15 Hz at 1/10 height
Line Shape (5 mm)	Less than 70 Hz at the average peak height of 13C satellites (0.55%)
1H Sensitivity	>25:1 (S/N), 1 pulse, 1% ethyl- benzene (CH3) in CDCl3
1H Pulse	<20 µsec 90° flip angle at 7 watt RF power for 5mm probe (Q of 150)

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