Benchtop NMR

The Magritek Spinsolve benchtop NMR spectrometer provides excellent performance, ease of use and robust operation – all in a compact size that fits on the bench. It is very stable which makes it ideal for applications, such as teaching laboratories, which require samples to be measured one after the other. The software enables you to quickly switch between $^1$H and $^{19}$F nuclei. You can run a wide range of NMR experiments including advanced 2D methods and real-time reaction monitoring.

### Features
- $^1$H and $^{19}$F nuclei
- 1D and 2D NMR experiments
- Compact, benchtop size and weight
- No spinning or compressed gas
- No cryogens

### Applications
- Research laboratories
- Industrial QA/QC laboratories
- Undergraduate education
- Reaction monitoring

400 mM Ethyl Crotonate single scan, 10 seconds
Example NMR spectra from the Spinsolve benchtop NMR

400 mM Ethyl Crotonate, 1D proton single scan, 10 seconds

The high sensitivity and stability of Spinsolve make it ideal for reaction monitoring.

Acetalisation of Acetaldehyde.

Flow reaction monitoring setup
Software

The Spinsolve software is beautifully simple and easy to use, with a clean and intuitive user interface.

Easy experiment selection in the upper menu

Single button start

Progress bar

One-click processing buttons

Simple menu structure

1. Click to choose nucleus
2. Click to choose experiment
3. Click Start (watch status on the progress bar)
4. Click any processing you wish to apply

Magritek Experiment Guides and Collateral

Magritek has a wide range of application notes, lab manuals, and case studies, as well as a comprehensive Chemistry Education Experiment Manual.

See the downloads page on our website: http://www.magritek.com/products/spinsolve/downloads/
Specifications

- Nuclei: $^1$H, $^{19}$F
- Operating frequency: 43 MHz ($^1$H)
- $^1$H 50% Linewidth: < 0.5 Hz
- $^1$H 0.55% Linewidth: < 20 Hz
- $^1$H Sensitivity: >100:1 for 1% Ethyl Benzene
- Operating Temperature Range: 20° C to 25° C (68° F to 77° F)
- Dimensions: 58 x 43 x 40 cm (23" x 17" x16")
- Weight: 55 kg (120 lb)
- Stray Field: < 2 G all around system
- Power requirement: 110-240V AC

Pulse sequences available on the Spinsolve spectrometer

<table>
<thead>
<tr>
<th>Proton</th>
<th>Fluorine</th>
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<tbody>
<tr>
<td>1D</td>
<td>1D</td>
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<tr>
<td>Paramagnetic</td>
<td>Paramagnetic</td>
</tr>
<tr>
<td>2D COSY</td>
<td>2D F - COSY</td>
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<tr>
<td>2D TOCSY</td>
<td>2D F - JRES</td>
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<td>2D JRES</td>
<td>2D FH - COSY</td>
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<td>$T_1$, $T_2$</td>
<td>Reaction Monitoring</td>
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<tr>
<td>Reaction Monitoring</td>
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</tbody>
</table>

Other sequences may be available, contact Magritek for details.

Contact us now for a quote, or to arrange a demo or sample measurement.

CONTACT INFORMATION
For further information, please contact: sales@magritek.com

GERMANY
Philipsstraße 8
52068 Aachen, Germany
Tel: +49 (241) 70525-6000
Fax: +49 (0)241 539-4375

NEW ZEALAND
6 Hurring Place, Unit 3
Newlands, Wellington 6037, NZ
Tel: +64 4 477 7096
Fax: +64 4 471 4665

UNITED STATES
6440 Lusk Blvd (D108)
San Diego, CA 92121, USA
Tel: +1 (855) 667-6835
+1 (866) NMR-MTEK

Or visit our website www.magritek.com