



## Reaction Monitoring System

Catalog No. WG-RMS-7

WG-RMS-8

### Operating Instructions:

The Reaction Monitoring System arrives assembled for reaction experiments with an additional solid black threaded cap. This extra cap is for sample storage post mixing.

### Sample Preparation:

To prepare your sample in the Reaction Monitoring System, please follow these steps:

- 1) Remove red cap from inner tube.
- 2) Loosen white set screw.
- 3) While gently pushing the inner tube down against the outer tube, tighten the white set screw.
- 4) Using the top side-port in the white set screw adapter fill the outer chamber with Solution A using a long PTFE needle. (Recommended Wilmad-LabGlass part #90615)
- 5) Fill the inner chamber through the top of the inner tube with Solution B using a long PTFE needle. (recommended Wilmad-LabGlass part # 90619)
- 6) Replace the red cap on the inner tube.

### Spectral Acquisition:

To begin your NMR experiment with a prepared Reaction Monitoring System, please follow these steps:

- 1) Insert the prepared Reaction Monitoring System into the spectrometer to acquire "pre-mix" spectra.
- 2) When ready to mix, eject the Reaction Monitoring System from the instrument, loosen the white set screw, and pull the inner tube upwards (Note: you may need to briefly remove the red cap from the inner tube so that a vacuum is not created, be sure to replace the red cap before continuing your experiment).
- 3) Tighten the set screw so that the inner tube is suspended above the solution & outside of the active probe window. (Note: For some benchtop NMR spectrometers, the set screw and inner tube can be accessed without removing the sample from the instrument.)
- 4) Reinsert the Reaction Monitoring System into the instrument and acquire "post-mix" spectra.
- 5) Upon completion of the experiment, the inner tube and black threaded cap with set screw adapter can be removed & replaced with the provided solid black threaded cap for sample storage.



1172 NW Boulevard, Vineland, NJ 08360

TEL: 856-691-3200 • FAX: 856-691-6206 • [www.wilmad-labglass.com](http://www.wilmad-labglass.com)

Wilma-LabGlass - SP Scienceware assumes no obligation or liability for any advice furnished by it, or for results obtained with respect to these products. All such advice is given and accepted at the buyer's risk.

© 2017. All Rights Reserved. • Wilma-LabGlass - SP Scienceware is a division of SP Industries, Inc.



12/17

