



RM SYNTHESIZER



The process of preparing reverse micelles in pressurized fluids such as carbon dioxide, the short chain alkanes such as propane and ethane and xenon requires fine control at pressures often as high as several thousand pounds per square inch. The process of transferring samples from a mixing chamber into a high pressure NMR tube while at pressure can also be challenging. Daedalus Innovations has integrated all the necessary

elements into a small bench-top instrument. When combined with an Xtreme-10 Syringe Pump, making reverse micelle samples in the low viscosity fluid of choice becomes safe, reproducible, and routine. Features include:

- Integrated sample stirrer.
- Mixing chamber backlight for observation of sample preparation.
- Internal pressure reservoir to provide the driving force for sample transfer.
- Thermal regulation of the mixing chamber using an external water bath.
- Port for introducing cleaning solvents into the mixing chamber for rapid transition to the next sample.

To facilitate quick setup, the instrument is shipped with connection hardware, cleaning manifold components, and gas regulators (North America only) that are necessary for operation. No longer is it necessary to be an expert in high pressure applications to put the reverse micelle technology to work for your biophysical research!

Power requirements	100-120 VAC / 200-240 VAC, 50/60 Hz
Input current	< 0.5 A rms
Weight	23 lbs (10.5 kg)
Dimensions	16.25" W x 13.25" D x 9" H (41.3 cm x 33.7 cm x 23 cm)
Pressure range	0-14,500 psi (1,000 bar)
Wetted parts	316 stainless steel, Viton, sapphire
Operating medium	Alkanes, carbon dioxide, water, oils, alcohols, inert gases
Mixing chamber volume	1.65 mL nominal
Piston displacement volume	1.1 mL nominal
Pressure connections	All ports are HiP AF1 (1/4"-28 UNF) for use with 1/16" tubing.



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