

DrySyn MiniSpin

Precision vial stirring system

Modular & scalable platform for parallel synthesis

The **NEW DrySyn MiniSpin** is an innovative overhead stirring solution designed specifically for scientists requiring accurate and controlled stirring when working at vial-scale.

This unique modular platform delivers efficient and uniform mixing for reaction vials, even under challenging stirring conditions. It effectively eliminates grinding when using powders, compared to when using magnetic stirrer bars. In turn, this produces more transferable chemistry - critical when scaling up into jacketed reactors.

Engineered to enable up to four separate reactions in parallel, each vial cap includes ports for the user to insert needles for sampling, addition, and inert atmosphere, plus a condenser. The vials also hold a vacuum.



APPROX VISCOSITY TEMPERATURE (°C) APPROX. RPM	MATERIAL 1 ~50 cP		MATERIAL 2 ~1000 - 2000 cP		MATERIAL 3 ~2000 to 4000 cP	
	AMBIENT	70 °C	AMBIENT	70 °C	AMBIENT	70 °C
	1200	1200	1200	1200	500	1000+

Figure 1: Testing carried out using 20 mL vials



Ideal for viscous materials, suspensions, or simply consistent mixing at micro-scale

Inert atmosphere or under vacuum

Quickly and easily configure your setup

With a range of options and accessories available for the DrySyn MiniSpin, users are able to transform each reaction position for reactions requiring an inert atmosphere or vacuum conditions.

The optional gas manifold includes the following fittings:

- one inlet (female Luer lock, PC)
- 4 outlets (male Luer lock, PP) to vials
- one additional outlet for potential exhaust



Optimise for scale-up

From vial to vessel

Whether you're working with viscous materials, suspensions, or needing consistent mixing at the micro-scale, the DrySyn MiniSpin provides the control and reproducibility that overhead stirring systems are known for - now optimised for vial-scale reactions.

From here, users have the option to scale-up using DrySyn oil-free heating blocks, the DrySyn Vortex parallel overhead stirring platform for flasks up to 500 mL, or Asynt's ReactoMate jacketed laboratory reactors.



- Temperature range -20 °C to 130 °C
- Minimal setup, modular and expandable
- For 20 mL and 2 dram vials, up to 4 positions in parallel
- Variety of cap and side arm configurations
- 250 to 1,000 rpm with 12V voltage
- Reversible agitation control
- Low maintenance and high chemical resistance
- Sampling, additions, and inert atmosphere possible
- Cost effective and compact

Contact us for further information