

DrySyn Spiral Evaporator

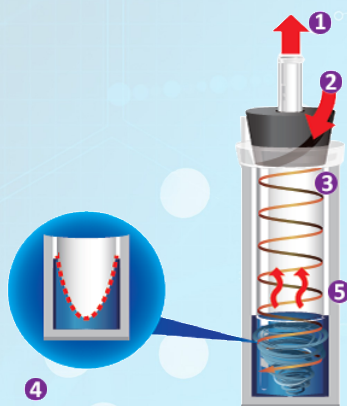
Parallel evaporation of high boiling solvents in one compact unit

The DrySyn Spiral Evaporator offers fast and effective parallel evaporation for up to four vials without solvent bumping. The system is used to rapidly concentrate high boiling solvents like DMSO, DMF, NMP and water in small reaction vials, without the need for high temperatures.

- Nitrogen purging possible for inert conditions
- Anti-bumping to alleviate cross-contamination
- Ergonomic design to accommodate varying vial sizes
- Interchangeable spiral plugs enabling compatibility with all vial sizes up to a 24mm neck diameter
- Rapid evaporation of high boiling solvents, including DMSO, NMP, DMF & water
- Efficient sample recovery
- Vacuum pump requires 4-8m³/hr flow rate
- Compatible with DrySyn MULTI reaction vial inserts (see overleaf)



Vacuum-Assisted Vortex Concentration Rapid Evaporation



1. Pull a vacuum
2. This promotes gas influx through a groove on the spiral plug
3. Which generates a spiral air flow
4. Increasing the contact surface area between liquid and gas
5. Promotes solvent evaporation

To discuss vacuum requirements & suitability please contact us.

“The Spiral Evaporator allows us to vac down up to four different samples at a time, streamlining work-up procedures for multiple reactions.

It saves so much time, and there is no fear of bumping.

It removes all of the hassle associated with attaching vials to rotary evaporators and allows the concentration of samples directly into vials.

Evaporating high-boiling solvents like DMF and DMSO is another big plus.”

**Dr Alex Cresswell,
University of Bath, UK**

DrySyn Spiral Evaporator Solvent Data

Concentration speed (minutes to dryness)

| Solvent/Capacity (5 ml in 20 ml vial) | Flow rate per tube / m ³ per hour (so x 4) | Temperature of bath / °C | | |
|--|--|--------------------------|-----|----|
| | | 26 | 40 | 70 |
| Hexane | 1 | 5 | 3 | 3 |
| Acetone | 1 | 7 | 4 | 3 |
| Ethyl acetate | 1 | 9 | 6 | 5 |
| Acetonitrile | 1 | 18 | 9 | 8 |
| Methanol | 1 | 31 | 10 | 6 |
| Ethanol | 1 | 31 | 10 | 6 |
| *Deionized water | 2 | 95 | 49 | 28 |
| *DMF | 2 | 68 | 43 | 24 |
| *DMSO | 2 | 241 | 195 | 69 |
| *NMP | 2 | N/A | N/A | 71 |

*Gas purge data



- **Spiral Plug size 1** for 4-7mm neck diameter tubes
- **Spiral Plug size 2** for 7-11mm neck diameter tubes
- **Spiral Plug size 3** for 11-17mm neck diameter tubes
- **Spiral Plug size 4** for 15-24mm neck diameter tubes



Popular purchase options

ADS16-4: DrySyn Spiral Evaporator (DSE) comes with height adjustable manifold, glass shield, 3 x blanking plugs, hose barbs, and 4 x spiral plugs of one size.

ADS16-SP-4-size Additional set of 4 spiral plugs state size required when ordering

ADS3-R-size DrySyn reaction vial inserts in any one standard size (pack of 3).

All inserts are typically 4 position unless otherwise stated. Size refers to the diameter of the hole.

11.80 (9 position) / 15.00 / 16.20 / 17.40 / 20.20 / 24.40 / 25.75 / 27.40 mm

ADS3-RT-17.40 DrySyn TAPERED reaction vial inserts pack of 3 inserts, 17.40 mm

ADS16-1-C Clamp holds one DrySyn Spiral Evaporator unit securely on a hotplate support rod

ADS19-BASE DrySyn UNO base plate holds base DSE securely on a hotplate.

ADS-HP-S-N2 Asynt hotplate stirrer kit including PT100 thermometer, support rod, boss head

Contact us for further information.