DrySyn COOL

Now a DrySyn that can COOL down too...

Controlled cooling without resorting to Jacketed Reaction Vessels

Building on the success of the DrySyn heating blocks, DrySyn COOL is an integrated concept for cooling.

The modular system includes a cooling base plate and various inserts for standard round bottomed flasks from 50ml - 1000ml.

Pictured here is the cooling base plate which can be attached to any standard recirculating chiller unit.

Exchange of reaction vessels is easily achieved in seconds without disrupting the thermal bath fluid, offering time saving and safety advantages over glass jacketed reaction vessels.

Standard inserts are supplied for round bottom flasks for 1000 ml down to 50 ml

With DrySyn COOL, chemists can control sub-ambient temperatures for prolonged periods of time preventing the use of solvent/ice baths

Utilizing more advanced chillers allows the chemist to control cooling/heating ramp rates in a round bottom flask.

DrySyn COOL advantages:

- Can be used stand-alone on a laboratory bench with an overhead stirrer
- Also compatible with any magnetic stirrer
- Very small footprint
- Low cost compared to jacketed glass reaction vessels, especially for multiple sizes
- Robust, durable aluminium build instead of glass
- Compatible with virtually any brand of laboratory circulator or chiller system e.g. Julabo/Huber/Lauda/Grant
- Designed for sustained sub-ambient chemistry down to -30°C solution temperature

Can be used with a standard magnetic stirrer for agitation

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Performance

Independent tests carried out at Huber in Germany showed that their low cost and compact Ministat circulator units can be utilized for specific solution temperatures down to –30°C

DrySyn COOL performance tests with Huber Ministat 230 and 240 Series

Using a 1000 ml flask 1/3 filled in the DrySyn COOL the minimum temperature reached by the Huber Ministat 230 was -32.3°C. The minimum temperature reached by the flask contents was -27.9°C.

Huber MINISTAT 230 pictured

Insulated hoses are recommended for powerful circulators like the Ministat 240

The same tests were performed with a Huber Ministat 240. The minimum temperature reached by the thermal fluid was -38.5°C. The minimum temperature reached by the flask contents was -35.0°C

GB Patent application no 0612975.3

We recommend that DrySyn COOL is used with insulation when taking temperatures below –10°C. The optional Armaflex insulation we offer is designed specifically for sub-ambient conditions.

DrySyn COOL with optional Armaflex insulation

DrySyn COOL pictured with a Heidolph over-head stirrer

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