



MeCour-Huber ultra-low sample management systems will provide you with a powerful new tool minimizing adverse sample impact while increasing throughput. Whether you require a single or a hundred systems to provide temperature control to a few or dozens of samples, MeCour-Huber will work closely with you to provide the perfect solution(s) to meet your requirements.



Unistat[®] 705w

Constantly cryogenic sample management

Mecour and Huber have coupled their expertise to offer a new product designed specifically to hold and thermally manage samples at cryogenic temperatures to -100 °C with the ability to freeze and thaw the samples at a user specified strictly controlled rate.

The MeCour-Huber ultra-low temperature sample management systems are perfectly suited to laboratory benchtop or classified environments with a variety of accessories to integrate to existing automated platforms.

MeCour-Huber -60 °C benchtop sample management system.

Temperature range: -75...250 °C

Setup details

Unistat[®] 705w & MeCour ultra-low temperature sample management system

Cooling power: Heating power: Hoses: HTF: Application:

Vials content: Control: 0.6 kW @ 250...100 °C 0.65 kW @ 0 °C 0.6 kW @ -20...-40 °C 0.3 kW @ -60 °C 1.5 kW / 3 kW 2x1 m; M24x1.5 (#9325) DW-Therm (#6479) MeCour ultra-low temperature sample management system 24x1 ml Ethanol process

MeCour-Huber has designed systems with tolerances as tight as ± 0.1 °C. The MeCour-Huber ultra-low temperature cryostats are specifically designed to eliminate "edge-effect" and hot/ cold spots ensuring precise and accurate temperature distribution across the working areas of the system. The superior performance of these thermal systems has been validated through a number of thermal mapping studies. Results of this testing under both static and ramping conditions are presented in the following figures.

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The following thermal mapping data demonstrates the superior precision and stability of the MeCour-Huber ultra-low thermal management systems. More data is available on request.



Thermal mapping study on MeCour-Huber ultra-low sample management system with a specified tolerance of \pm 1 °C under controlled ramping conditions, ambient to -65 °C



Thermal mapping study on MeCour-Huber ultra-low sample management system with a specified tolerance of \pm 0.1 °C under static conditions at 20 °C