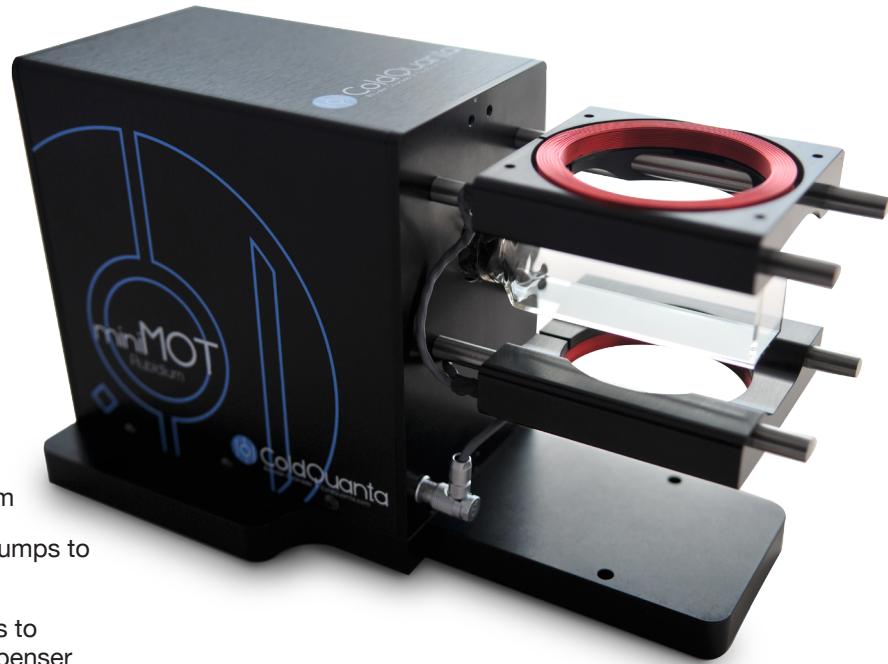


# miniMOT



## Product

**Compact** UHV system

**Active** and passive pumps to maintain vacuum

**Integrated** electronics to power ion pump, dispenser

**Integrated** coil driver

## Product Description

The miniMOT is a stand-alone UHV system designed for immediate implementation into any educational or research group's cold atom experiments. No knowledge of vacuum processing or vacuum technology is needed as the miniMOT is shipped under vacuum. Containing an integrated ion pump and drivers for the dispenser and MOT coils, the miniMOT frees either the seasoned researcher or student to focus their time on designing and building their experiment instead of the vacuum apparatus. When combined with our miniMOT Coils and miniMOT Kit the user is able to achieve a live MOT within hours (lasers and coupling optics to be provided by the user).

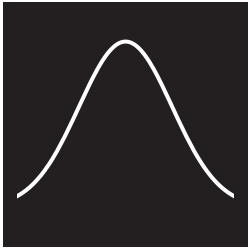
## Related Products

The miniMOT system is frequently used in conjunction with:

- miniMOT kit [MK-1000](#)
- AR coated cell [SAR-2016](#)
- MOT Coil assembly [MAG-1000](#)
- 3 axis coil assembly [MAG-3000](#)

## Product Specifications

<a href="#">External Dimensions</a>	5.13 x 4.5 x 9.0 inches (13 x 11.5 x 23 cm)
<a href="#">Nominal cell height</a>	3.5 inches (9 cm)
<a href="#">Weight</a>	4.5 lbs (2 kg)
<a href="#">Vacuum quality (with no alkali load)</a>	<10 nTorr
<a href="#">Magnetic field from ion pump at cell center</a>	<0.5 Gauss
<a href="#">Clear aperture of the cell</a>	60 x 18 mm on cell side walls 15 mm diameter at cell end
<a href="#">Alkali metal source</a>	Rubidium or Cesium at natural abundance



# miniMOT

## Product Options

### Alkali metal source

Rubidium: MOT-1000-RB  
Cesium: MOT-1000-CS

### Glass cell option

The miniMOT is upgradeable to replace the stock glass cell with any of our high-quality AR Coated cells

## Mechanical Drawing

