AMERICAN MAGNETICS
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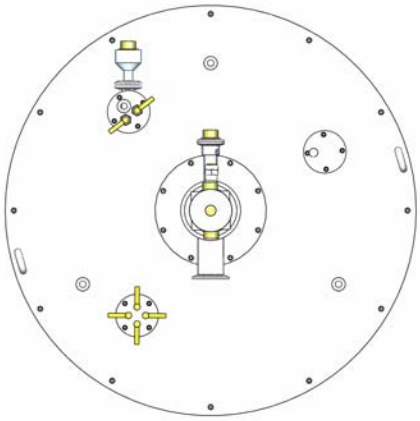
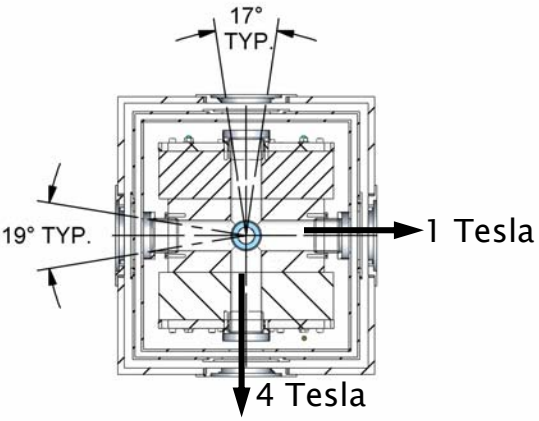
Opti-MAxes™ Model OPMX-141-1
Superconducting Magneto-Optical Vector Magnet System

Opti-MAxes™ Systems include the following features:

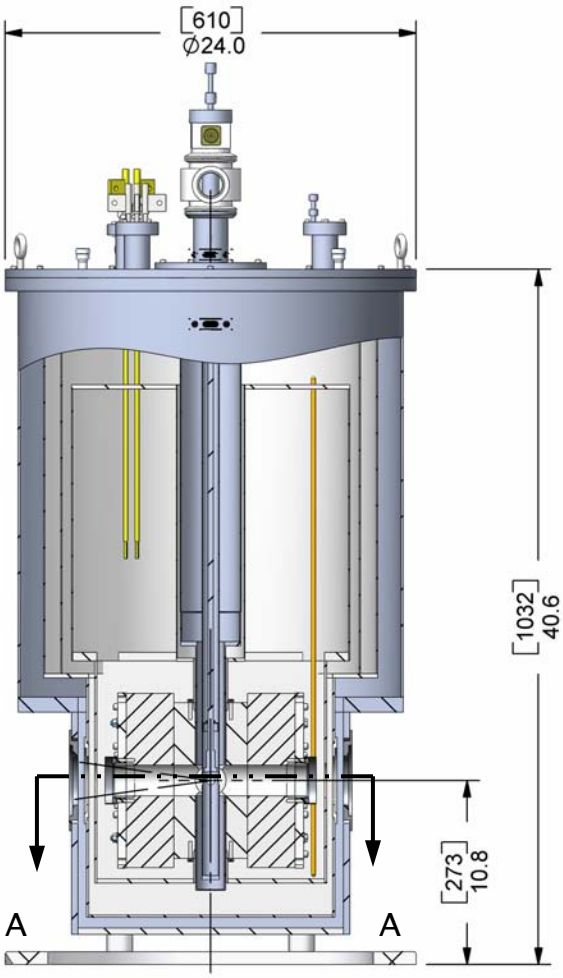
- 2 or 3 axis magnetic field vector magnet with optical access
- Low-loss liquid helium cryostat with top loading sample insert with variable temperature from <2K to 300K
- 1 Tesla vector field in any direction with 4 Tesla field in either vertical or horizontal configuration
- 4-quadrant power supplies and magnet controllers for fast ramping capability
- Liquid helium level instrumentation
- Liquid nitrogen level/auto-fill instrumentation for dewar shield
- Two channel temperature controller
- Liquid Helium transfer line with built-in level sensor on supply side
- Color coded, quick-disconnect power cables (e.g., no tools required)
- Complete liquid helium system test of magnet and variable temperature insert
- Pumping station for variable temperature insert
- System software interface for magnet control (LabVIEW™)
- Integrated instrumentation console and associated cables
- Complete system manual

Please feel free to contact us or your AMI representative to discuss your requirements. Visit us on the web at www.americanmagnetics.com, sales@americanmagnetics.com or by phone at (865)482-1056.





Section A-A



Magnet System Specifications

- 1 Tesla vector field in any direction
- 4 Tesla horizontal field
- Persistent switches on all magnets
- Liquid helium capacity: 57 liters
- Liquid helium hold time: 200 hours (sample at 4K and zero current in leads)
- Liquid nitrogen shield capacity: 21 liters
- Liquid nitrogen hold time: 48 hours
- VTI sample tube O.D.: 25 mm
- (4) horizontal windows 11.0 mm diameter clear view
- VTI temperature range: <2K to 300K
- Required lifting height: 2540 mm
- Dry weight: 225 kg/500 lbs

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