

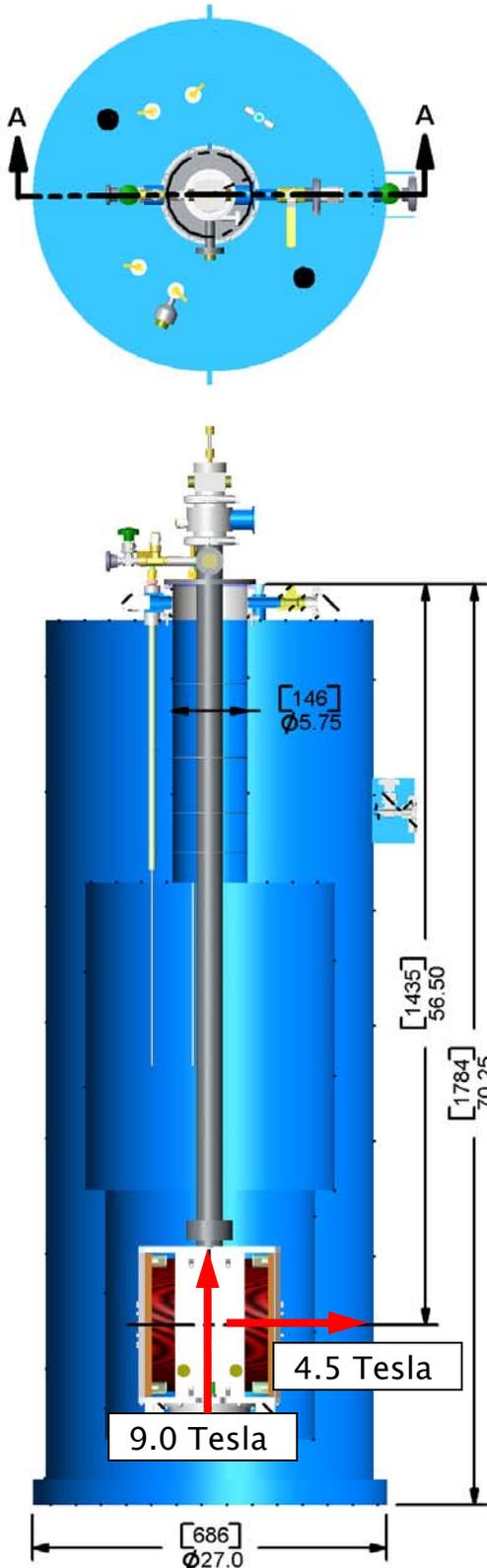


MAxes™ Model MX-4.5/9-30 Superconducting Vector Magnet System

MAxes™ Systems include the following features:

- 2-axis magnetic field vector magnet with vertical access
- Low-loss liquid helium cryostat with top loading sample insert with variable temperature from <2K to 300K
- 3.0 Tesla vector field in any direction with 9.0 Tesla field in vertical axis
- Bi-polar power supplies and magnet controllers for fast ramping capability
- Liquid helium level instrumentation
- Liquid nitrogen level/autofill instrumentation for LN2 shielded dewar
- 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)
- Pumping station for variable temperature insert (VTI)
- Complete liquid helium system test of magnet and VTI
- System software interface for magnet control (LabView)
- Integrated instrumentation console and associated cables
- Complete system manual





Magnet System Specifications

- 9.0 Tesla vertical field
- 4.5 Tesla horizontal field
- 3.0 Tesla vector field in any 2D direction
- 52 mm diameter vertical cold bore
- Persistent switches on all magnets
- Liquid helium capacity: 100 liters
- Liquid helium hold time: 330 hours (sample at 4K and zero current in leads)
- Optional vapor-shielded dewar
- 146 mm dewar neck I.D.
- Dewar height: 1784 mm
- VTI sample tube O.D.: 38 mm
- VTI temperature range: <2K to 300K
- Required VTI lifting height: 4 m
- Configurable for use with your existing He3 or dilution refrigerator insert
- Dry weight: 225 kg/500 lbs

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.