

HELM-3 ONE METER TRIAXIAL HELMHOLTZ COIL

FEBRUARY 2008 SPECIFICATIONS

Description:	One Meter Triaxial Helmholtz Coil System suitable for magnetometer calibration and testing, as well as for general laboratory field magnetic measurement work.
Axial Alignment :	Orthogonality better than + 0.1 °
Magnetic Constant :	1 Gauss/Ampere Nominal
Calibration Accuracy of Magnetic Constant :	>± 0.015% at Center of Coil
Magnetic Field Uniformity :	< 0.3% Gradient in a centrally located 20 cm sphere < 0.1% Gradient in a centrally located 10 cm sphere
Coil Geometry :	(3) Nested Rectangular Coil Pairs
Coil Dimensions :	Largest Dimension of Coil is 120 cm ²
Coil Assembly Weight :	50 kg
Coil Construction :	All non-magnetic materials; coils are electrically isolated to prevent eddy current loops.