

HELM-3-2 TWO METER TRIAXIAL HELMHOLTZ COIL

FEBRUARY 2008 SPECIFICATIONS

Description:	2.2 Meter Triaxial Helmholtz Coil System suitable for magnetometer calibration and testing as well as general laboratory or field magnetic measurement work.
Axial Alignment :	Orthogonality better than + 0.1 °
Magnetic Constant :	75,000 nT/AMP Nominal
Calibration Accuracy of Magnetic Constant :	± 0.01% at Center of Coil
Magnetic Field Uniformity:	0.025% Gradient in a centrally located 20 cm sphere 0.005% Gradient in a centrally located 10 cm sphere
Coil Geometry:	Three nested rectangular coil pairs
Coil Dimensions:	Largest Dimension of Coil is 215 cm ²
Coil Assembly Weight:	114 kg
Coil Construction:	All non-magnetic materials; coils are electrically isolated to prevent eddy current loops.