

Helmholtz Coil Procurement Specifications

This procurement is for a tri-axial Helmholtz coil system for use in the Electromagnetic Environmental Effect facility of NASA LaRC. This equipment will be used for performing design and research of magnetic field sensors and for magnetic field susceptibility and emission testing on flight platforms such as UAVs and Small Satellites.

- **Helmholtz coil specifications**

1. Magnetic field generation and sensing in 3 orthogonal axes
2. Frequency of operation covering the range of 0-100Hz
3. Magnetic field intensity: 3 Gauss or higher
4. Field homogeneity: 1% in an area covering a 6U CubeSat of 10x23x34cm
5. Preferably the Helmholtz coil is part of a complete system that includes excitation source, current control, and output signal handling
6. The system must include a compatible table to support an EUT within the test volume
7. Input power: Standard 110-208V AC 60Hz