



Helmholtz coil

TCXH 1110

- IEC 61000-4-8
- EN50121-4
- GB/T17626.8
- GB/T17215

Features

- > The direction of the coil magnetic field can be easily adjusted at 90 °/180 °;
- > The coil is equipped with a test bench for the test sample;
- > The coil can work continuously and the output magnetic field strength is stable;
- > Compatibility between AC power supply and DC power supply;
- > The uniform region of magnetic field space is very wide;
- > The linear relationship between magnetic field and current is good

Introduction

Helmholtz coils are used to generate standard magnetic fields and have a wide range of applications. They can be used for calibration of Hall probes and various magnetometers, compensation of geomagnetic fields, determination of magnetic shielding effects, measurement and exclusion of space radiation magnetic fields, and research on material magnetic properties; Spacious and easy to use; There is a good linear relationship between magnetic field and power supply current, and there is a wide uniform area in the magnetic field space. Simultaneously meeting the relevant requirements of IEC61000-4-8, GB/T17626.8, GB/T17215-2002 "Static AC Active Energy Meters for Level 1 and Level 2", and GB/T15283-94 "0.5, Level 1, and Level 2 AC Active Energy Meters", one-dimensional, two-dimensional, and three-dimensional combined magnetic fields can be designed and manufactured as needed.

Application Areas



Technical Parameters

Magnetic field intensity (50-60Hz)	1 A/m-1000 A/m 1.25 μ T-1500 μ T
Magnetic field direction	90°/180°
Testing timer	1-100 A/m continuous (1-400 A/m continuous optional) 100-1000 A/m (1-10 s short-term)
Coil turns	Multiple turns


General Parameters

Weight	About 135 kg
Coil size	1000mm (length) x 1000mm (width) x 540mm (spacing)
Ambient temperature	15-35°C
Packaging size	1540x1440x1040mm

Optional Simulator

MFS 1200	Power frequency magnetic field interference simulator, meeting the IEC 61000-4-8 standard
MFS xxxAP	AC/DC (variable frequency) magnetic field interference simulator, meeting EN50121-4 standard
APS xxCxx	Voltage variation simulator, compliant with ISO11452-8 standard
CCS 600	Combination immunity tester, meeting the IEC 61000-4-8 standard

Optional Accessories

Name	Helmholtz coil test bench	
Model	HMXQ-00	
Platform size	500*500mm	
Raise/lower height	750/450mm	
Weight	About 10kg	

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