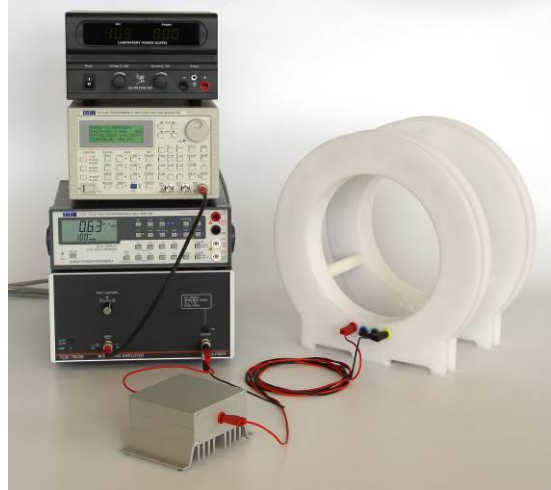




Helmholtz Coil



These Helmholtz coils are designed to test the immunity of electronic equipment to magnetic fields, for instance according to European standards (CE) or to MIL-standards. The field is homogeneous for most of the volume and is sufficiently precise to calibrate magnetic field probes. It is possible to change the orientation of the coil very easily in order to test the three directions of the field. The power generator and the associated equipment are proposed as an option.

SPECIFICATIONS

| Type | HC180 | HC100 | HC30 |
|------------------------------|-------------------|-------------------|-----------------|
| Coil diameter | 1.8 m | 1 m | 0.3 m |
| Resonance frequency | 300 kHz | 660 kHz | 500 kHz |
| Max. current (cont. / 1 min) | 30 / 60 A | 30 / 60 A | 12 / 40 A |
| Coil factor | 7.15 A/m / A | 15.6 A/m / A | 117 A/m / A |
| Field in the centre (1 min.) | ≤ 430 A/m | ≤ 940 A/m | ≤ 4'700 A/m |
| Dimensions (L x W x H) | 2 x 1.1 x 2.3 m | 1.1 x 0.6 x 1.1 m | 34 x 20 x 34 cm |
| Homogenous zone (± 10 %) | 1.1 x 1.1 x 1.1 m | 0.5 x 0.5 x 0.5 m | 14 x 14 x 14 cm |
| Weight | 80 kg | 25 kg | 6.6 kg |
| Homogeneity | ± 10 % | | |
| Linearity | < ± 1 % | | |
| Construction type | non-magnetic | | |
| Connectors | 4 mm | | |

Other models are available on request, for instance for the test of watches.