

EA154HVG-UHV

1.02T @ 35 MM – 2.2T @ 10 MM – 385Kg

Lighweight and Powerfull H-Frame Laboratory Electromagnet with variable tapered poles gaps

DESCRIPTION

This electromagnet is a H frame electromagnet optimized for magneto-optical studies in UHV. Coils have been optimized for fast ramp (400A/s).

Specifications

| | |
|--------------------------|-------------------|
| Weight | 385 Kg |
| Maximum Continuous Field | 2.22 T @ 10mm gap |
| Distance between coils | >270 mm |
| Temp. Max | 45°C |
| Water Cooling | 12 L/min |
| Resistance @ 20°C | 0.08 Ohm |
| Inductance | 30 mH |

OPTIONS

- Special pole caps (cylindrical, conical, drilled poles etc.)
- 90° base
- Custom Coils
- AC modulation coils

POWER SUPPLY

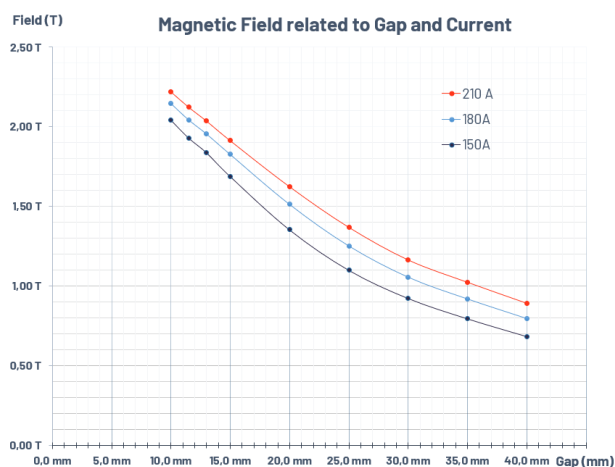
We propose 3 standards power supplies:

210A / 40V

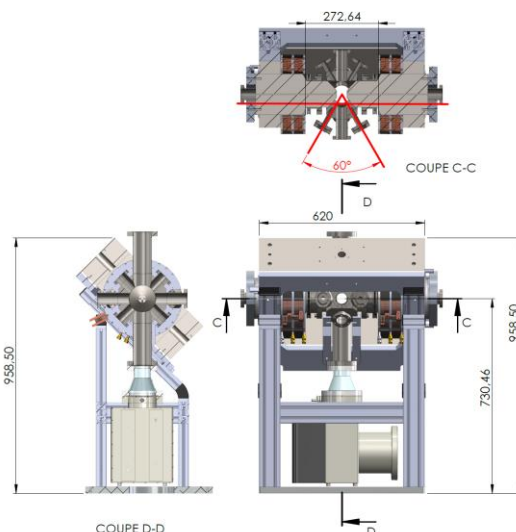
180A / 40V

150A / 15V

Options: 10ppm / 5ppm/ HALL Gaussmeter integrated / Hall Regulator / Bipolar 4 quadrants



DIMENSIONS



Poles Field and Homogeneity

| Gap G | B Max | Face D | Homogeneity / Volume |
|--------------|--------|---------------|----------------------|
| 10 mm | 2.22 T | 30 mm | 2.24% / 3x3x3 mm |
| 11,5 mm | 2.12 T | 30 mm | 2.27% / 4x4x4 mm |
| 13 mm | 2.04 T | 30 mm | 2.40% / 5x5x5 mm |
| 15 mm | 1.91 T | 30 mm | 1.85% / 6x6x6 mm |
| 20 mm | 1.62 T | 30 mm | 1.57% / 6x6x6 mm |
| 25 mm | 1.37 T | 30 mm | 1.91% / 6x6x6 mm |
| 30 mm | 1.16 T | 30 mm | 1.98% / 6x6x6 mm |
| 35 mm | 1.02 T | 30 mm | 1.93% / 6x6x6 mm |
| 40 mm | 0.89 T | 30 mm | 1.82% / 6x6x6 mm |