

EA186H

2.23T @ 35 MM – 4.13T @ 5MM – 625Kg

DESCRIPTION & APPLICATIONS

H-Frame Laboratory Electromagnet with removable pole caps.

Hall effect / MOKE / Magnetic experiments / Chemical studies

Specifications

Weight	625 Kg
Maximum Continuous Field	4.45 T @ 5mm
Distance between coils	>100 mm
Temp. Max	50°C
Water Cooling	<15 L/min
Resistance @ 20°C	0.375 Ohm
Inductance	470 mH

OPTIONS

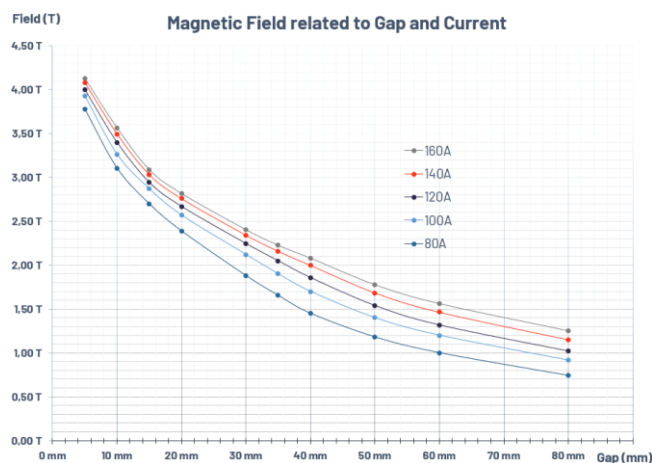
- Special pole caps (cylindrical, conical, drilled poles etc.)
- 45° Chassis
- Motorized Rotating base
- Custom Coils
- AC modulation coils
- UHV Chamber with direct Vacuum Access Through poles

POWER SUPPLY

Power supply for standard coils is proposed:

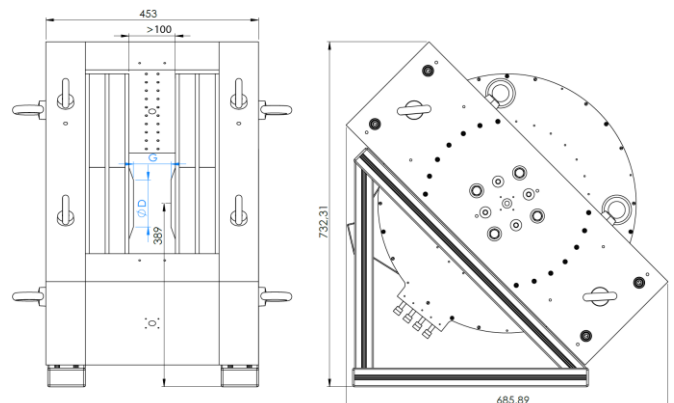
- 80A / 30V / 2.4kW
- 100A / 40V / 4.0kW
- 120A / 50V / 6.0 kW
- 140A / 55V / 7.7kW
- 160A / 65V / 10.4kW

Options: 10ppm / 5ppm / 1ppm / HALL Gaussmeter integrated / Hall Regulator / NMR Regulator / Bipolar 4-Quadrant



EA186H with motorized rotating base

DIMENSIONS



Poles Field and Homogeneity*

Gap G	B Max	Face D	Homogeneity: Volume / Plan
5 mm	4.13 T	7 mm	2.99% / 1.59% / Edge:3mm
10 mm	3.47 T	13 mm	1.80% / 0.95% / Edge:4mm
15 mm	3.09 T	24 mm	0.63% / 0.33% / Edge:5mm
20 mm	2.82 T	34 mm	1.15% / 0.67% / Edge:10mm
30 mm	2.41 T	55 mm	0.57% / 0.30% / Edge:10mm
35 mm	2.23 T	70 mm	0.95% / 0.52% / Edge:15mm
40 mm	2.08 T	80 mm	0.74% / 0.39% / Edge:15mm
50 mm	1.78 T	90 mm	0.41% / 0.22% / Edge:15mm
60 mm	1.56 T	95 mm	0.42% / 0.22% / Edge:15mm
80 mm	1.25 T	100 mm	0.60% / 0.32% / Edge:20mm

*Data from our simulation tool. Our simulator has been calibrated to obtain values of magnetic field and homogeneity lower than the reality with an error rate between 0 and 5%.