

# 5414 Electromagnet



## OVERVIEW

The **5414** is the largest standard GMW dipole electromagnet. It has fixed Pole Caps tailored to the user requirements with diameters up to 315mm and Pole gaps to 200mm. General purpose or high stability Power Supplies are offered with current reversing switches if required for field reversal. Full systems can be configured with Electromagnet, Power Supply, Current Reversing Switch, Teslameter (Gaussmeter), Rack-Mounting Computer, LabVIEW control software and site Installation, Supervision and Training.

## Applications

- Plasma and Material Studies Requiring a Large Gap and High Field.
- Precision NMR, EPR and Ferromagnetic Spectroscopy at High Field with High Demands on Field Uniformity.

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# Model 5414 General Specifications

## Mechanical

Pole Diameter	Fixed, 315mm max
Pole Gap	Fixed, 200mm max
Dimensions	920mm W x 522mm D x 1068mm H
Weight	3200kg

## Coils (series connected)

Max Resistance	0.82Ω
Max Power (water)	140Amps, 116Volts (16.3kW)
Self Inductance	Approx 80mH
Water Cooling	30liters/min, 2.7bar (8.0US GPM, 40psid)

## Safety

Overtemperature Interlock	Contacts closed below 65°C
Water Flow	Contacts open with a flow of less than 30liters/min.
Maximum Absolute Pressure:	10bar (150psid)

## Dimensions - 5414

