

MODEL FC-86B FARADAY CUP

Stand-alone, Water-Cooled Faraday Cup Assembly



FC-86B Faraday Cup

FC-86B	
Aperture size (Custom available)	1 mm dia. standard
Input power continuous	1250 Watts max. @ 3mm spot size
Insertion Length	5.6" (without 2" optional port aligner)
Operating temperature	150°C max. with phosphor screen.
Bakeout temperature	350°C max. with screen and cables removed

FEATURES / OPTIONS

Phosphor screen/limiting aperture is electrically isolated from ground (can be biased with an external power supply). Cup assembly completely enclosed in ground shield. Optional: 2° port aligner for mechanical alignment.

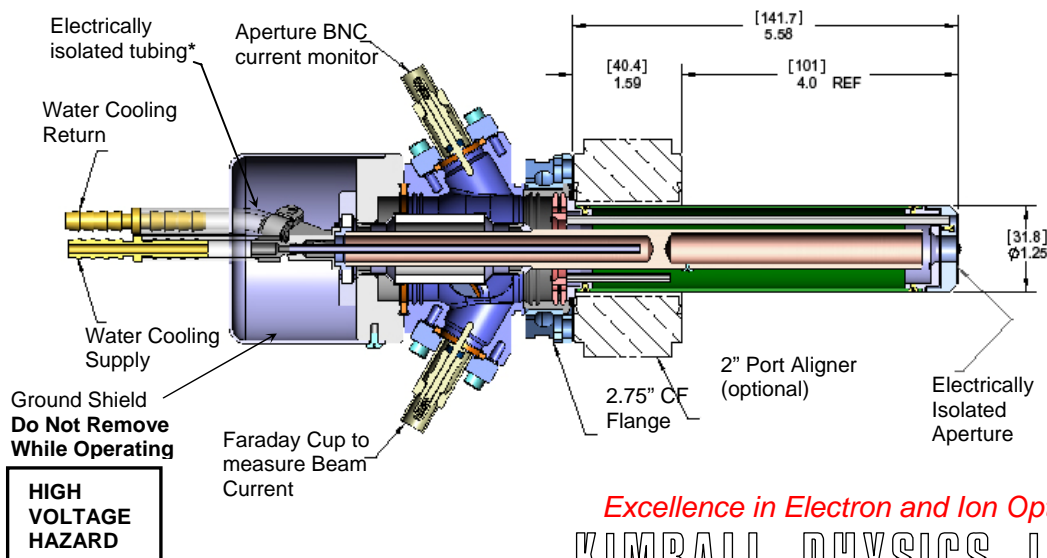
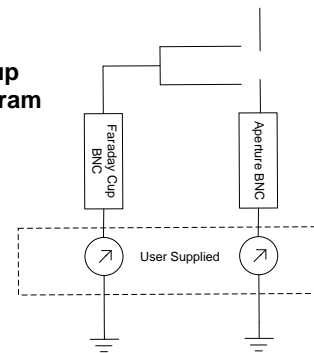
INTRODUCTION

The Kimball Physics FC-86 Faraday Cup Assembly is a complete water-cooled, shielded Faraday cup assembly mounted on a 2¾ CF Flange Multiplexer ready to attach to the vacuum chamber. The Faraday cup is capable of measuring electron or ion beams of up to 1250 watts of beam power. The removable phosphor screen around the limiting aperture permits visual, real-time observation of the spot. The phosphor screen/ limiting aperture is electrically isolated from ground and, if desired, can be biased with an external power supply. The standard size of the limiting aperture in the phosphor screen is 1 mm diameter; other aperture sizes are available. The maximum bake-out temperature is 150°C as limited by the phosphor screen, or 350°C with the phosphor screen removed.

Warning: BNC's must be terminated during operation.

* Water cooling must be electrically isolated using flexible PVC tubing provided

Faraday Cup Block Diagram



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