

PROBES & MONITORS HI-2790B CALIBRATION COMPARISON SYSTEM



HI-2790B CALIBRATION COMPARISON SYSTEM

- 2450 MHz Source with Control
- HI-1710A Local Calibration Reference Meter
- Anechoic Test Chamber with Slotted-end Waveguide Antenna and Probe Rotation Fixture

ETS-Lindgren's HI-2790B Calibration Comparison System complies with US Government (CDRH/FDA) requirements for evaluating calibration consistency of microwave oven survey meters used by oven manufacturers in compliance testing. The HI-2790B is a complete system containing all of the equipment necessary to check microwave oven survey instruments and monitor the calibration stability of these instruments. This involves checking each instrument periodically to make sure that its response is within specification, and its calibration remains constant. This must not be confused with performance of absolute calibration or transfer calibration on the instrument.

Standard Configuration

- HI-1710A Local Calibration Reference
- Power and Control Module
- A Portable Anechoic Chamber Mounted on a Frame with Wheels for Ease of Movement

Technical Specifications

Electrical

Frequency	2450 + 0.1 MHz over an ambient temperature range of 20°C to 24°C
Frequency Stability	50 ppm/°C + 0.0025
Dynamic Range	0.1 – 5 + mW/cm ² Plane-wave equivalent power density at probe test location
Input Power	100 – 240 VAC 0.8 – 0.4 A max 50 – 60 Hz
Fuses	250 Volt, 1.0 Amp, Type T (5 mm x 20 mm)
Output	2450 MHz, 4 W max Do not operate without 50 ohm load
Environmental	Operating temperature: 10°C to 40°C Humidity: 5% to 95% relative humidity, non-condensing
Local Calibration	HI-1710A Microwave Survey System (HI-1710A LCR)

Physical

Outside Dimensions (W x D x H)	770 mm x 1040 mm x 1230 mm (30.3 in x 41 in x 48.4 in)
Inside Dimensions	457 mm x 457 mm x 457 mm (18 in x 18 in x 18 in)
Weight	45 kg (shipping) (100 lbs)
Support	Castor wheels for ease of location