

Ultrasound Therapy Equipment for Treating the Surface Temperature

Measurement Model of the Head

(Model KS205TW-3)

The Structure and Performance of KS205TW-3 Model

1. Purpose

It is specifically designed for surface temperature detection of therapeutic-level ultrasound probes or external planar probes, and can be used in both water bath - heating and non-water bath - room temperature conditions.

2. Basic Structure

(1) Shape and Dimensions

The overall shape is cylindrical, with an outer diameter of approximately 168mm and a height of approximately 200mm.

(2) Shell Composition

(a) Side Wall: Approximately 2-3mm thick stainless steel barrel, with an inner diameter of 148mm and an inner height of approximately 160mm;

(b) Top Surface: 1.5mm thick white silicone rubber sound window, with a sound window diameter of approximately 15cm;

(c) Bottom Surface: An organic glass plate with rubber sealing on the side edges, with sound-absorbing materials attached to the inner side of the bottom panel.

(3) Tissue-like Material Type: Water-based polymer gel composite material.

(4) Support Bottom Plate: 10mm thick organic glass.

3. Characteristics Parameters of Tissue-like Material

(1) Sound Velocity: (1540 ± 10) m/s;

(2) Sound Attenuation Coefficient Slope: (0.5 ± 0.1) dB/(cm · MHz);

(3) Specific Heat: (3500 ± 500) J/(kg · K);

(4) Thermal Conductivity: (0.5 ± 0.1) W/(m · K).



The photo of the ultrasonic therapy body model KS205TW-3