

KP7103

超级恒温水浴水循环老化系统

Thermostatic Circulating Water Bath Aging System

精准控温 · 循环均匀 · 稳定可靠

KP7103 超级恒温水浴水循环老化系统，专为人工耳蜗及相关植入式医疗器械的恒温水浴老化与性能评估而设计。系统通过高精度温控与水循环技术，模拟人体内的温湿环境，为产品研发、质量控制及可靠性验证提供稳定、可重复的测试条件，适用于人工耳蜗、神经刺激器及其他植入式医疗设备的长期老化试验与功能评估。

助力人工耳蜗
让生命听见更多可能

创新 · 精密 · 可靠

INNOVATION · PRECISION · RELIABILITY



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超级恒温水浴水循环老化系统

Thermostatic Circulating Water Bath Aging System

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实际温度

37.0 °C

设定 37.0 °C

加热
Heating循环
Circulation报警
Alarm

温度范围

室温 +8 ~
99.9 °C

温度分辨率

0.1 °C



温度波动

< 2 °C



液体循环容积

15 L



样品工位

5 × 500 mL

加热功率
1 kW

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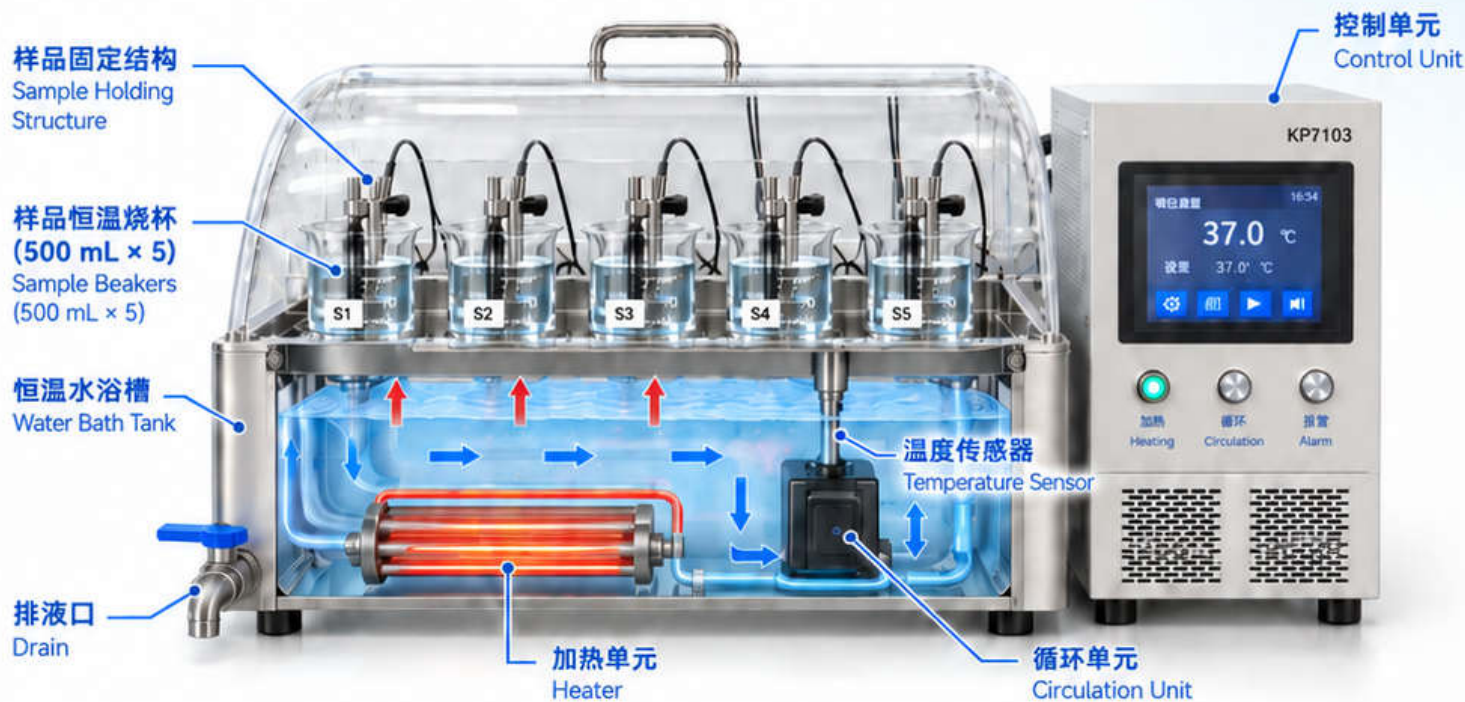
系统组成与循环原理

System Composition & Circulation Principle

KP7103 超级恒温水浴水循环老化系统为人工耳蜗及相关植入式医疗器械的老化与性能评估测试提供一个可控的恒温循环水浴环境。系统通过高精度的温度控制与均匀的循环流动，模拟人体内的温湿环境，支持长时间、多工位的稳定老化测试，助力医疗器械的可靠性验证与研发评估。

The KP7103 system provides a controlled thermostatic circulating water-bath environment for aging and evaluation tests of cochlear implants and related implantable medical devices. Through high-precision temperature control and uniform circulation flow, the system simulates the human internal temperature and humidity environment, supporting long-term, multi-position stable aging tests, and helping with reliability verification and R&D evaluation.

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循环工作原理 Circulation Workflow



温度设定
Temperature
Setting



加热升温
Heating



液体循环
Liquid
Circulation



多工位恒温
Multi-Position
Constant
Temperature



持续老化测试
Aging Test

系统优势 System Advantages



多工位并行测试
Multi-Sample
Parallel Testing



恒温循环环境
Controlled Thermal
Circulation



结构紧凑便于实验室使用
Compact Lab-Friendly
Design

页面示意用于说明系统组成与循环原理。
This page is for illustration of system composition and circulation principle.

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核心技术规格

Key Technical Specifications

专业参数 · 精准可靠 · 满足测试需求



技术规格 Technical Specifications

	温度范围 Temperature Range	室温 +8 ~ 99.9 °C
	温度分辨率 Temperature Resolution	0.1 °C
	温度波动 Temperature Fluctuation	< 2 °C
	液体循环容积 Circulating Volume	15 L
	加热功率 Heating Power	1 kW
	样品恒温水浴烧杯 Sample Beaker Volume	500 mL
	同时恒温烧杯数量 Number of Beakers	5 个
	典型测试对象 Typical Test Objects	人工耳蜗及相关 植入式医疗器械

产品优势 Product Highlights



精准控温

Precise Temperature Control

高精度温控系统
确保温度稳定可靠

多工位测试

Multi-Beaker Testing

5 个恒温水浴工位
满足多样化测试需求

恒温循环

Constant Circulation

内置循环系统
保证水浴温度均匀性

桌面式结构

Bench-Top Structure

结构紧凑，占用空间小
适用于实验室测试环境

技术参数以产品确认文件及实际配置为准。

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应用场景与测试流程

Applications & Test Workflow

贴近实际应用 · 规范测试流程 · 支持研发验证

Close to Real Applications · Standardized Testing Workflow · Support R&D Verification



顶部工作区 Top Working Area

5个独立测试工位，满足多样品同时测试。
Five independent testing positions for simultaneous multi-sample testing.

控制界面 Control Interface

清晰直观的操作界面，便于参数设置与运行监控。
Clear and intuitive interface for easy parameter setting and operation monitoring.

应用场景 Applications



人工耳蜗恒温水浴测试

Cochlear Implant Water-Bath Testing

用于构建稳定可控的液体温度环境。

Used to establish a stable and controllable liquid temperature environment.



多样品并行老化

Parallel Multi-Sample Aging

适用于多组样品的对比与持续测试。

Suitable for comparative and continuous testing of multiple sample groups.



相关植入器械研究

Related Implantable Device Evaluation

适用于相关植入式医疗器械的恒温老化与性能研究。

Suitable for thermostatic aging and performance research of related implantable medical devices.

测试流程 Test Workflow



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配置与产品特点

Configuration & Product Features

专业配置 · 稳定可靠 · 满足多样化测试需求

Professional Configuration · Stable and Reliable · Meet Diverse Testing Needs



建议配置组成 / Suggested Configuration

KP7103 恒温循环水浴系统主机
Main System多工位样品承载组件
Multi-Position Sample Support Assembly500 mL 样品烧杯
500 mL Sample Beakers样品固定附件
Sample Holding Accessories连接附件
Connection Accessories使用说明资料
Documentation

产品特点 / Product Features

01



桌面式多工位设计

Bench-Top Multi-Position Design

紧凑的桌面式结构，支持多工位同时进行测试。
Compact bench-top design with multi-position simultaneous testing.

02



温控稳定

Stable Temperature Control

高精度温控系统，确保水浴温度稳定、均匀。
High-precision temperature control system ensures stable and uniform water bath temperature.

03



循环结构便于长期试验

Circulation Structure for Long-Term Testing

内置循环系统，保持水浴温度均匀，适用于长期老化试验。
Built-in circulation system maintains uniform temperature, suitable for long-term aging tests.

04



适用于实验室研究与验证

Suitable for Laboratory Research & Evaluation

满足医疗器械相关的实验室研究、开发与验证需求。
Meets the needs of laboratory research, development and verification for medical devices.

技术支持 / Technical Support



提供安装、操作培训、日常维护及应用支持。

Support available for installation, operation training, daily maintenance, and application use.

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