

## Design Qualification (DQ) Media-Mate Plus™

### Purpose

The purpose of this document is to provide information for the end user to define the functional and operational specifications of the instrument and criteria for selection of the vendor based on the intended purpose of the instrument; as per USP chapter <1058>.

### Product Design

Hanson Research is a certified ISO 9001:2008 corporation.

All Hanson Research products follow a documented development cycle as per Quality Management Work Instruction QW7.02.

This process includes the development and maintenance of a design history file which includes, but is not limited to:

- Marketing Requirements
- Functional Specifications
- Schedule
- Design
- Design Reviews
- Design Changes
- Design Verification
- Design Validation
- Production Plan

The design history files for products is maintained for the life of the product and at least 5 years after production of the product has ended before archiving.

These documents may be audited upon customer request.

### Product Conformance

Hanson Research certifies that the Media-Mate Plus, including hardware and firmware, was designed, evaluated, validated, inspected, and tested to approved specified quality requirements of Hanson Research Corp.



## Design Qualification (DQ) Media-Mate Plus™

### Media-Mate Plus Features

- ✓ Ergonomic cart for easy use around the lab
- ✓ Easy adjustments for precise volumetric dispensing
- ✓ Interchangeable pre-heat tanks accommodate 10 – 40 L media and buffers
- ✓ Moveable dispense bar to fill vessels
- ✓ USP/FDA-recommended media deaeration (dissolved oxygen <6 ppm)
- ✓ Convenient retractable power cord
- ✓ Operational panel provides easy-to-use controls
- ✓ Fills dissolution bath in less than 5 minutes
- ✓ Quick and easy volume settings from 250 mL t 1,000 mL in 50 mL increments
- ✓ Suitable for several different brands of dissolution testers

### Media-Mate Plus Specifications

**Weight:**

Main unit, dry: 67 kg (148 lbs)

Main unit, with 40 L of media 107 kg (236 lbs)

**Size:**

Height: 114.0 cm (44.8 in.)

Width: 53.4 cm (21.0 in.)

Length: 80.9 cm (31.9 in.)

**Power:**

Voltage: 115 VAC or 230 VAC  $\pm$  10%

Frequency: 50/60 Hz

Current: 13 Amp (115 VAC) or 8 Amp (230 VAC)

Phase: Single

**Environmental Requirements:**

Maximum Ambient Temperature: 5 °C below temperature set point

Maximum Humidity: 85%

**Performance;**

Cycle Time: Less than 5 minutes

Pre-Heat Temperature Range: 30 °C to 45 °C

Pre-Heat Temperature Control Accuracy:  $\pm$  0.5 °C

Pre-Heat Temperature Readout Accuracy:  $\pm$  0.2 °C

Pre-Heat Time (21 °C to 37 °C): 60 minutes

Delivery Volume Range: 250 mL to 1000 mL

Delivery Volume Accuracy:  $\pm$  1.0 %

Deaeration: 95% saturation maximum / less than 6 ppm (500 mL @ 37.0 °C)

Filtration: 5 micron nominal

**Tank Capacities:**

Media Tank Volume (usable): 40 L (10.5 gal)

Media Tank Volume (Unusable): 2 L (0.5 gal)

Media Volume Top of Filter Housing: 8 L (2.1 gal)

Media Volume when low water level sensor turns heater off: 18 L total volume in tank

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## Wetted Materials

Material	High Density Polyethylene	SAN (Styrene/Acrylic/Nitrile)	Polyvinyl Chloride	316 Stainless Steel	Tygon	PTFE (Polytetrafluoroethylene)
Tank	X					
Heater						X
Filter	X					
Flask		X				
Fittings and Fill Hose			X			
Tubing				X	X	

## Media-Mate Plus Warranty

Hanson Research (Hanson) products are warranted for one full year including parts and labor. Service contracts and Preventive Maintenance contracts are available for post-warranty support. International dealer warranties may vary. Hanson makes no warranty, expressed or implied, for glassware, consumables, or products not manufactured by Hanson, as evidenced by nameplate on the item or other designation. Hanson will give responsible assistance to buyer in obtaining from the respective manufacturer whatever adjustment is reasonable in light of manufacturer's own warranty. Hanson shall be released from any and all obligations under any warranty, either expressed or implied, if the product covered is repaired or modified by other than its own personnel, or made without written authorization from Hanson. There are no other warranties, expressed or implied, and Hanson shall not be liable under any circumstances for consequential damages.