

# PCT Mini-Meg™ 150

## Larger Capacity Mini-Meg System Fully Functional Lab Size Megasonic Systems

Following the successful market adoption of the Mini-Meg 100, PCT introduced the Mini-Meg 150. As with original model, the Mini-Meg 150 carries a full feature set along with aggressive pricing for what will undoubtedly be both a research or production megasonic system. The Mini-Meg 150 is a full production megasonic system for cleaning, process enhancement, stripping or plating that can accommodate a fully loaded common 25 wafer 6"/150mm wafer carrier. The Mini-Meg 150 is available with a plastic or stainless steel tank/transducer plate and a drain. The static tank can be self standing or may be mounted in a fume hood or wet bench.

### Mini-Meg 150 Product Features

#### GENERATOR

- Small Size
- 3 Channels
- 2 Outputs / Channels
- 500 watts/channel
- Phase Shifting
- Programmable Recipes
- Choice of Frequency
  - 450 kHz
  - 750 kHz
  - 950 kHz

#### PROCESS TANK

- Tank Material Options
  - PVDF
  - Stainless Steel

#### TRANSDUCER

- Teflon Coated
- Ambient to 70°C Liquids
- Multiplexing / Full On



Includes Generator, Tank with Drain and Transducer Plate

### Perfect for R&D Lab Applications & Processes

- Semiconductor
- Optics
- Particle Removal
- Wet Etch
- MEMs
- LED
- Post CMP Clean
- SCI Clean
- Disk Drives
- Solar
- Batch or Single Wafer
- Resist Removal
- Acoustic Chemical Enhancement

Made in USA

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# PCT Mini-Meg 150 Specifications

## Model 9300 Mini-Meg Generator

### Mechanical Specifications

Size	Width 12.5", Length 14.0", Height 3.5"
Material of Construction	Anodized Aluminum
Mounting	Horizontal or Vertical

### Electrical Specifications

Voltage Rating	208-240 VAC, 50/60 Hz
Current Rating	Max 10 amps
Environmental Operating Range	0° to 27°C
Storage Temperature Range	-25° to 50°C

### Megasonic Amplifier Operation Specifications

Independent Power & Frequency Control for each RF Output	
Number of Channels	3
Number of Outputs per Channel	2
Maximum RF Output per Channel	500 watts
Maximum RF Output per Unit	1500 watts
Programmable RF Output Range	0 to 500 watts per Channel
Programmable Recipes / Channel	8
Frequency Changes / Recipe	4
RF Output Power Tolerance	+/- 10%
Output Designations	Array 1, Array 2, Array 3
Frequency Bands (Choice of 1)	450kHz, 750kHz, 950kHz
Frequency Resolution	100 Hz
Frequency Accuracy	+/- 100 Hz
Programmable Sweep Functionality	1-10 KHz
RF Output Connectors	DB15F

### External Interface

External Interlock	DB15 Male Connector +5v Loopback - Pin 10 Liquid Level - Pin 4 Ground - Pin 8, 9, 12
Communication Ports	SECS II: RS232: DB15 Male connector Receive – Pin 6 Transmit – Pin 7 Ground – Pin 8
Transducer Connections	4 each DB15 Female connectors, labeled Array 1 thru Array 4
Power Plug	3 - prong IEC Appliance Connector C14

### Displays/User Interface

Power On/Off Switch	
4 Line 40 Character LCD with keypad or PDA/LCD Touch Screen	
Monitoring for Frequency vs. Time, Power vs. Time, and more	

### Facilities Requirements

N2 or CDA supply	1-2 psi @ 1/4 scfm
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**Delivery and Installation:** Most PCT Mini-Meg systems ship within 4 weeks of order. The PCT Mini-Meg is easy to set up and install in your lab. Just place it on a sturdy surface with appropriate ventilation for the type of chemicals you are using, ensure chemical drain hookup or some suitable containment method, fill to the desired depth with chemical, plug into a proper grounded power source, program the desired recipe and you can see the megasonic action in the liquid.

**Disclaimer:** PCT Systems, Inc. disclaims any liability associated with the use or misuse of the Mini-Meg product, especially related to chemical handling and vapors associated with it use.

## Mini-Meg 150 Tank

### PVDF Tank Mechanical Specifications

Size:	Width	Length	Height
Outside Dimensions	11.00"	12.50"	13.25"
Inside Dimensions	9.00"	9.00"	8.88"
Material of Construction	PVDF Plastic		
Drain Port	PVDF Drain 1/2" NPT		

### Stainless Steel Tank Mechanical Specifications

Size:	Width	Length	Height
Outside Dimensions	12.50"	12.50"	10.50"
Inside Dimensions	9.50"	9.50"	8.88"
Material of Construction	Electro Polished Stainless Steel PFA Coated Stainless (+\$1,000)		
Drain Port	SS drain with 1/2" ball valve		

