

UltraHeat MF Series

50-100kW/50-150kHz

Induction Technology Solutions



BENEFITS OF INDUCTION HEATING

- Improved energy efficiency
- Higher degree of controllability
- Increased repeatability
- Low maintenance requirements
- Increased productivity

Advanced, cost effective power supplies utilizing the latest switching power supply technology

Adaptive digital phase control providing very efficient operation in a wide frequency range

Reliable, modular system, easy to maintain and service

Flexible, wide range load impedance matching by utilizing multiple transformer ratios and configurable tank capacitance

Configured to operate with external Heat Stations allowing output connections to be available from all sides

Durable design, loaded with safety and diagnostics features

Serial Communication link to a PC based software (optional)

APPLICATIONS

Brazing, Shrink Fitting, Annealing, Hardening, Melting of Metal, Curing, Forging, Bonding, Heating, Plastic Reflow, Susceptor Heating, Optical Fiber, and more...

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FEATURES

- Output regulation: Voltage, Power, Current
- Limits Setting: Current, DC Volts, Output Volts, Power, Frequency
- Operator controls – Selectable: Advanced, Basic or Expert control panels
- Continuous cooling water temperature and flow monitoring
- Variable ratio output isolation transformer for load matching of a wide range of loads and coils
- RS232/485 interface for remote computer monitoring, control and diagnostics
- 5 Programs with 9 programmable parameters
- 0-10V or 4-20mA external control and remote Start/Stop operation



Optional Equipment

	Description
RCP-01	Remote Control Panel
RCP-02	Remote Control Box (Start/Stop)
FS-01	Foot Switch Assembly
HSB-250	Heat Station Switch Unit (250A)

SPECIFICATION

Power Supply Model

	MF50/150	MF75/150	MF100/150
Output Power, kW	50	75	100
Frequency, kHz	50-150	50-150	50-150
AC Line, Volts (50/60Hz)	380/480 ±10%	380/480 ±10%	380/480 ±10%
Line Phases	3	3	3
Weight, Lb (kg)	Contact us for details	771.6 (350)	881.8 (400)
Dimensions, Inch (cm) LxWxH	Contact us for details	31.5 x 23.6 x 82.7 (80 x 60 x 210)	31.5 x 23.6 x 82.7 (80 x 60 x 210)
Compatible Heat Stations	HS-100MF	HS-100MF	HS-100MF

Heat Station Model

	HS-100MF
Dimensions, Inch (cm) WxDxH	31.5 x 17.7 x 19.7 (80 x 45 x 50)
Weight, Lb (kg)	132.3 (60)
Min. Cooling Water, GpM (LpM)	10.57 (40)
Inlet Water T° (max), °F (°C)	95°F (35°C)