

UltraHeat MF

50-100kW/50-150kHz

Efficient Power for
Heating 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

HEADQUARTERS:

158-2 Remington Blvd
Ronkonkoma, New York 11779
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ultraflexpower.com



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
Custom Coil	Custom Coil designed and manufactured for customer's application
Water Cooling System	Water Cooling System specified per customer's requirements
FS-01	Foot Switch Assembly
RCP-01	Remote Control Panel with 10 ft cable
RCP-02	Remote Control Box (Start/Stop)
Temp System	Temperature Monitoring and Control Systems Specified per customer's requirements
HSB-250	Heat Station Switch Unit (250A)
CAB-WCL-900-XX	Flexible water cooled leads, from 3 – 15 ft

SPECIFICATION

Power Supply Model

	UPT-MF50/150	UPT-MF75/150	UPT-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 Ultraflex for Details	771.6 (350)	881.8 (400)
Dimensions, Inch (cm) LxWxH	63" x 30" x 77" (160 x 76 x 196)	63" x 30" x 77" (160 x 76 x 196)	63" x 30" x 77" (160 x 76 x 196)
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)

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