

UltraHeat HF Series

25-75kW/100-400kHz

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, Curing, Forging, Bonding, Heating, Material Testing, Plastic Reflow, Susceptor Heating, Plasma, Optical Fiber, Nanoparticle Research and more...

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FEATURES

- Output regulation: Voltage, Power, Current
- Limits Setting: Current, DC Volts, Output Volts, Power, Frequency
- Operator controls – Selectable: Automatic, Remote or Local control
- Capable of operating in a wide frequency range (100kHz - 400kHz); low and high Q factors
- 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
- Power control from 1% to 100% in 1% increments
- 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
FS-01	Foot Switch Assembly

SPECIFICATION

Power Supply Model

	UPT-H25	UPT-H50	UPT-H75
Output Power, kW	25	50	75
Frequency, kHz	100-400	100-400	100-400
AC Line, Volts (50/60Hz)	380/480 ±10%	380/480 ±10%	380/480 ±10%
Line Phases	3	3	3
Weight, Lb (kg)	330.7 (150)	551.2 (250)	881.8 (400)
Dimensions, Inch (cm) LxWxH	15.7 x 23.6 x 39.4 (40 x 60 x 100)	31.5 x 23.6 x 74.8 (80 x 60 x 190)	47.2 x 23.6 x 74.8 (120 x 60 x 190)
Compatible Heat Stations	HS-25/400, HS-75/400	HS-25/400, HS-75/400	HS-25/400, HS-75/400

Heat Station Model

	HS-25/400	HS-75/400
Dimensions, Inch (cm) WxDxH	TBD	TBD
Weight, Lb (kg)	92.6 (42)	220.5 (100)
Min. Cooling Water, GpM (LpM)	3.17 (12)	TBD
Inlet Water T° (max), °F (°C)	95°F (35°C)	95°F (35°C)