

UltraHeat W

5-15kW/10kHz-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, Soldering, Carbide Tipping, Curing, Catheter tipping, Forging, Bonding, Heating, Material Testing, Plastic Reflow, Susceptor Heating, Nanoparticle Research

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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 (10kHz-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
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-03	External E-stop box with 6 ft leads
ACC-01	Output Coil Adapter
ACC-02	Output Adapter Blocks with 1-4 NPTF
ACC-03	Output Adaptor Blocks with o-rings
HSB-50	Heat Station Switch Box (50A) For use with HS-8 and HS-8LF
Temp System	Temperature Monitoring and Control Systems Specified per customer's requirements
CAB-WCL-900-XX	Flexible water cooled leads, from 3 – 15 ft

SPECIFICATION

Power Supply Model

	UPT-W5/400	UPT-W10/150	UPT-W10E/150	UPT-W15/150	UPT-W15/100
Output Power, kW	5	10	10	15	15
Frequency, kHz	40-400	50-150	50-150	50-150	10-100
AC Line, Volts (50/60Hz)	230±10%	230±10%	380/480±10%	380/480±10%	380/480±10%
Line Phases	3	3	3	3	3
Weight, Lb (kg)	66.1 (30)	66.1 (30)	84 (38)	84 (38)	84 (38)
Dimensions, Inch (cm) LxWxH	20.5 x 15.7 x 15.7 (52 x 40 x 40)	20.5 x 15.7 x 15.7 (52 x 40 x 40)	20.5 x 15.7 x 15.7 (52 x 40 x 40)	20.5 x 15.7 x 15.7 (52 x 40 x 40)	20.5 x 15.7 x 15.7 (52 x 40 x 40)
Compatible Heat Stations	HS-8, HS-8S	HS-8, HS-8S UBraze	HS-8	HS-8, HS-8S UBraze	HS-8LF

Heat Station Model

	HS-8 (standard)	HS-8LF (low freq opt)	HS-15SP (series parallel option)	UBraze Handheld System
Cable Length between Power Supply and Heat Station: Std / Max Ft (cm)	6 (182)/ 20 (609)	6 (182)/ 20 (609)	6 (182)/ 20 (609)	10 (305) / 15 (457)
Dimensions, Inch (cm) WxDxH	14.2 x 14.2 x 9.8 (36 x 36 x 25)	14.2 x 14.2 x 9.8 (36 x 36 x 25)	contact Ultraflex for details	3.25 x 6.9 x 11 (8.25 x 17.5 x 28.1)
Weight, Lb (kg)	37.5 (17)	37.5 (17)	contact Ultraflex for details	7.5 (3.4) 9.5 (4.3) with flex leads
Min. Cooling Water, GpM (LpM)	2 (8)	2 (8)	2 (8)	2 (8)
Inlet Water T° (max), °F (°C)	95°F (35°C)	95°F (35°C)	95°F (35°C)	95°F (35°C)