

UltraHeat S

4-5kW/20kHz-200kHz

Efficient Power for
Heating Solutions



BENEFITS OF INDUCTION HEATING

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

Low-power induction heating systems with water-cooled and air-cooled options

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

Induction Heating with 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

APPLICATIONS

Brazing, Shrink fitting, Annealing, Soldering, Carbide Tipping, Curing, Catheter tipping, Getter Firing, Bonding, Heating, Material Testing, Plastic Reflow, Susceptor Heating, Nanoparticle Research

HEADQUARTERS:

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FEATURES

- Output regulation – Voltage, Power, Current
- Limits Setting – Current, DC Volts, Output Volts, Power, Frequency
- Compact air cooled power supply design with automatic fan control
- Operator controls – Selectable: Automatic, Remote or Local
- Capable of delivering full power in the 20-200kHz frequency range
- Variable ratio output isolation transformer for load matching of a wide range of loads and coils
- Optional 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
RCP-03	External E-stop box with 6 ft leads
FS-01	Foot Switch Assembly
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-S4/100-TC	UPT-S5
Output, kW	4	5
Frequency, kHz	20-100	50-200
AC Line, Volts (50/60Hz)	230 ±10%	230 ±10%
Line Phases	1	1
K-Type Thermocouple Input	Yes	No
Weight, Lb (kg)	43 (19.5)	43 (19.5)
Dimensions, Inch (cm) LxWxH	15.4 x 14.2 x 11.8 (39 x 36 x 30)	15.4 x 14.2 x 11.8 (39 x 36 x 30)
Compatible Heat Stations	HS-4A air-cooled	HS-4, HS-8, UBraze

Heat Station Model

	HS-4 (standard)	HS-4A (air-cooled)	HS-8 (optional)	UBraze Handheld System
Cable Length between Power Supply and Heat Station: Std / Max Ft (cm)	5 (152)/ 20 (610)	5 (152)/ 20 (610)	5 (152)/ 20 (610)	10 (305) / 15 (457)
RS232/485 interface for remote monitoring, control and diagnostics	No	No	Yes	No
Dimensions, Inch (cm) WxDxH	10.2 x 7 x 6.3 (26 x 18 x 16)	11.8 x 7 x 6.7 (30 x 18 x 17)	14.2 x 14.2x 9.8 (36 x 36 x 25)	3.25 x 6.9 x 11 (8.25 x 17.5 x 28.1)
Weight, Lb (kg)	8.8 (4)	13.2 (6)	37.5 (17)	7.5 (3.4) 9.5 (4.3) with flex leads
Cooling Requirements	Water (External)	Forced Air	Water (External)	Water (External)
Water GpM (LpM)	0.5 (2.0)	n/a	2 (8)	2 (8)
Inlet Water T° (max), °F (°C)	95°F (35°C)	n/a	95°F (35°C)	95°F (35°C)