

# ULTRAFLEX N-SERIES

2-5kW/50kHz-450kHz

EFFICIENT POWER FOR  
INDUCTION HEATING



## 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 with low and high Q factors
- Variable ratio output isolation transformer for load matching of a wide range of loads and coils
- Optional RS485 interface for remote computer monitoring, control and diagnostics
- Power control from 10 to 100% in 1% increments  
5 programs with 9 programmable parameters
- 0-10V or 4-20mA external control and remote Start/Stop operation

Ultraflex Nanoparticle Research Systems are ideal for magnetic hyperthermia and other applications. With a variety of power and frequency levels available, these systems will provide the magnetic field strength needed for your application.

Ultraflex offers proprietary tools for calculating the magnetic field strength, and can customize a induction solution for your research application.

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

Nanoparticle Research.

## HEADQUARTERS

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## BENEFITS

- Precise Control of magnetic field strength
- High degree of repeatability
- Low maintenance requirements

## Power Supply Model

	UPT-n2 0UPT-035-230	UPT-n5 0UPT-035-330
Output kW	2 kW	5 kW
Frequency kHz	100-350	100-400
AC Line Volts (50/60Hz)	230±10%	230±10%
Line Phases	1	1
Weight Lb (kg)	13.2 (6)	28 (12.5)
Dimensions Inch (cm) WxDxH	9.5" x 7" x 11" (24 x 18 x 28)	14.4" x 10.6" x 12.8" (36.5 x 27 x 32.6)
Compatible Heat Station	HS-4W	HS-n5
Included Test Coil Custom Coils may be substituted	Specimen 1	Specimen 1 Specimen 2 Specimen 3 Test Tube 1

## Heat Station Model

	HS-4W 1ACC-030-160	HS-n5 1ACC-035-300
Cable Length between Power Supply and Heat Station: Std / Max Ft (cm)	5 (152)/ 20 (610)	6 (183)/ 30 (914)
Dimensions Inch (cm) WxDxH	10.2" x 7" x 6.3" (26 x 18 x 16)	7.1" x 9.3" x 6.5" (18 x 23.6 x 16.5)
Weight Lb (kg)	8.8 (4)	8.7 (4)
Cooling requirements water system quoted upon request	water (external)	water (external)
Min. Cooling Water, GpM (LpM)	0.5 (2.0)	0.5 (2.0)
Inlet Water T° (max), F (°C)	95°F (35°C)	95°F (35°C)

## Optional Equipment



	Description
RCP-01	Remote Control Panel
FS-01	Foot Switch Assembly
ACC-02	Output Adapters Set with Water Bypass

## Nanoparticle Research Systems – Standard Test Coils

	Specimen 1	Specimen 2	Specimen 3	Test Tube 1
Turns	3	7	4	6
ID (mm)	50	50	38.1	25
Length (mm)	30	70	38.1	42
Max Calculated Field Strength (mT) n2 System **	30	50	50	75
Max Calculated Field Strength (mT) n5 System **	55	60	90	145

\*\* Field strength is a calculated estimate and not guaranteed. Testing can be done to verify field strength at a certain configuration and frequency.

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