

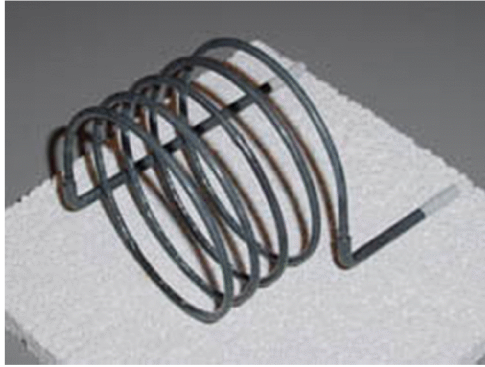

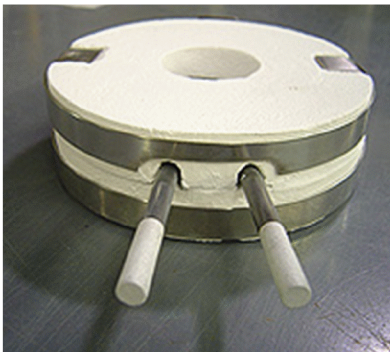
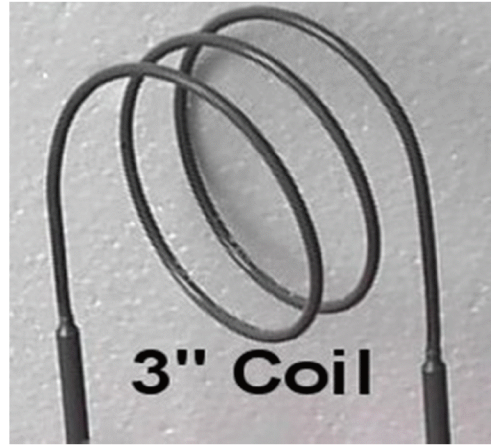
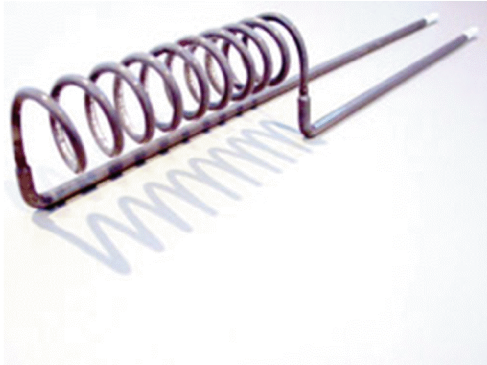
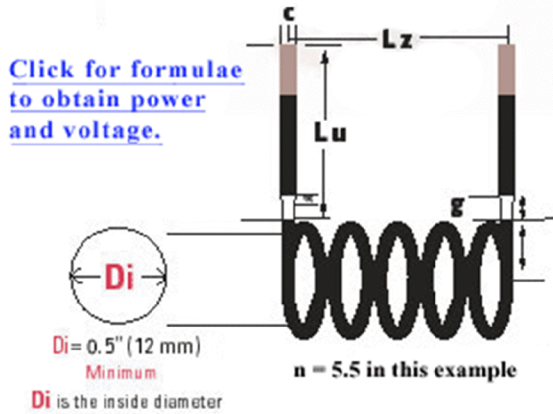


Coil and Conical Heating Elements

Heating Element Temperatures 1900°C	
Inline Coils	Standard Coils
	
	



[High temperature sleeve heaters](#)



**There is a limitation on Lz/n
Call MHI for details (513) 772-0404

Ultra Coil Part #	ID/Di Coil inside diameter	Lz Coil length (same as terminal separation for standard coils)	n Approx. number of turns	Watts	Terminal Type
UC-6.5/1125/4/3.5	1.125	3.5"	6.5	1300	standard
UC-7.5/2125/4/8	2.125	8.0"	7.5	2800	standard
UC-6.5/3125/4/3.5	3.125	3.5"	6.5	3500	standard
UC-5.5/4125/4/3	4.125	3.0"	5.5	4000	standard
UC-4.5/5125/4/2.5	5.125	2.5"	4.5	4000	standard
IUC-6.5/1125/4/3.5	1.125	3.5"	6.5	1300	inline
IUC-15.5/2125/4/8	2.125	8.0"	15.5	3000	inline
IUC-6.5/3125/4/3.5	3.125	3.5"	6.5	3500	inline
IUC-5.5/4125/4/3	4.125	3.0"	5.5	4000	inline
IUC-4.5/5125/4/2.5	5.125	2.5"	4.5	4000	inline

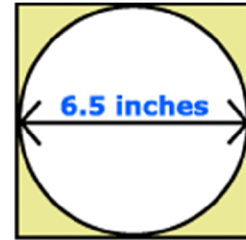
Radiating Heaters (High Power)

UPESP 1850°C

UPESP is a high power molybdenum disilicide pancake radiator. The UPESP is rated to operating temperatures up to 3362°F (1850°C). The element is supported by a patented non-reactive ceramic base plate that is provided with the heating element. Ask about our standard models.



Example pancake element

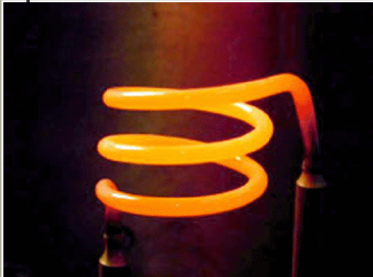


Example base-plate showing radial dimension for UPESP-6.5 with custom base with large depth

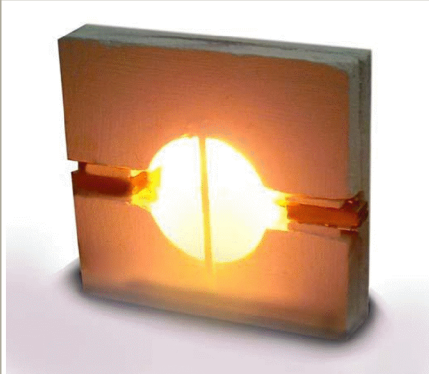
Model # (size of base plate)	Power	Element Shape
UPESP-3	~1500W	(complex)
UPESP-6.5	~4000W	(complex)
UPESP-9	~6000W	(complex)
UPESP-12	~8000W	(complex)

UPESP (Base Plate Included - FiberFree™ non-toxic)

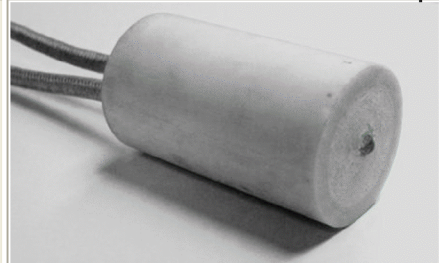
Examples of Radiant Possibilities
MHI Specilaizes in Radiators such as GlowPanels™
Coils, and Ignitors.
Note: Radiator temperatures are measured and reported by pyrometric measurements methods.



Model shown is ultra coil [IUC-XX-2125-X-X]. For conical coils please specify part number Exp-8.



10-20" GlowPanel™ (Area) Radiators. Model Shown is GA-XP-4.5-GP.



Ignitor Style, Point Source Radiators from 1200 - 1900C. Model shown is MHGI-1250.

Electronic Control System Options



BPAN-O



HIPAN & XPAN

MHI SCR's, Electronic Controllers and Control Panels (closed loop and open loop)

High Safety! Several MHI 2010 control panels contain an extra user-configurable, cut-off switch, which can provide additional safety. This limit feature can be integrated to a user defined alarm condition.

Multi Zone - 3 Phase Control Panels



- Multiple Zone control process or programmable temperature controller
- Over-temperature controller
- 3 Phase voltage & current read out on all phases with selector switch
- Durable enclosures
- 3 phase 208/240/480 KVA please specify
- MHI-DACS - Data Acquisition Control Software (optional)



Multi-zone process controllers are custom made for complex/continuous heating solutions

[top](#)

TRIPAN & RPAN3 - 3 Phase Control Panels



TRIPAN 3 phase controllers

- Process or programmable temperature controller
- Over-temperature controller
- 3 Phase voltage & current read out on all phases with selector switch
- Durable enclosure with eye bolt for lifting
- Thermocouple included (*specify type & length*)
- Optional digital communications
- 3 Ohms - 208/240/480 KVA up-to 75 amps per phase

Size:	21" H x 26" D x 32" W (changes with configuration)
Weight:	55 kg approx. (changes with configuration)

HIPAN-2010 & XPAN-2010 Control Panels



HIPAN-2010 control panel



XPAN-2010 control panel (front)

- Process or programmable temperature controller
- Over-temperature controller
- Ammeter
- SCR power controller with current limiter (extended soft start)
- Durable enclosure
- Thermocouple optional with every box (*specify type & length*)
- Optional digital communications
- HIPAN-2010: 208V/220V/240V up to 55 amps
- XPAN-2010: 208V/220V/240V up to 75 amps
- Plug-and-play Data Acquisition System - MHI DACS (*optional*)

Size:	HIPAN - 18" H x 18" D x 10" W XPAN - 19" H x 29" D x 11" W
Weight:	HIPAN - 22 Kg (approx) XPAN - 34 Kg (approx)



HIPAN-2010 control panel back. Typically customized.

POWERPHASE SCR'S



Single phase SCR



3 phase SCR

A complete range of SCR SINGLE and THREE PHASE power controllers are available from MHI.

- Advanced hybrid design incorporating logic & analog circuits
- Compact, bulkhead mounting for easy installation
- Isolated heat sink, shrouded electronics meeting CE norms for added safety
- Phase angle control
- Field adjustable current limit
- Field adjustable soft start
- Semi-conductor fuse, MOV, Snubber circuit protections
- User configurable inputs
- Standard models and customization (factory configured for your application)
- Hundreds of installations
- Comprehensive operating, installation and trouble shooting manual
- Unbeatable price and delivery
- One year warranty

Controls for Laboratory Furnaces, Airtorch™, Coils and Thermoplates.

Size and weight optimized for the greatest flexibility. Remotely locatable. Easy to connect.

Easy to use.

Airtorch™ controllers offer infinite analog, control analog or programmable temperature capabilities.

BPAN-O-2010 and BPAN-O-PLUS-2010 Control Panels


BPAN-O-2010 (front)



*BPAN-O-2010 (back with COMM options)
(over-temperature controller included in BPAN-O-PLUS-2010)*

- BPAN-O-2010 models have a UL microprocessor (PID) programmable controller
- Best soft start and current limit included
- Over-temperature controller available in BPAN-O-PLUS-2010
- Durable enclosure (weight is approx. 7.3 kg)
- Digital communications RS232/485 120V and 220V/ models
- Fan or power controller in some models
- SCR power controller with current limiter (extended soft start) please call for details
- Provides control up to 3kW and 6kW. Sold separately or with small furnaces and Thermoplate™ or Airtorch™
- Plug-and-play Data Acquisition System (optional) - MHI DACS
- Remote on/off (optional)

VPAN Control System



Open loop VPAN control system

- Open loop variac controller
- Extremely versatile
- Low cost
- Up to 100 Amps
- Single phase / 120V
- FANCS unit available for temperature readout
- ~ 30 kg

TPAN Control Panel



TPAN control panel

- Open loop variac controller
- Use for Microheaters and HeatPad™
- 115V input
- 0-55V/16A max output
- Versatile variable output
- ~ 16.5 kg