

## MK-30 Features & Specifications



### Standard Features:

- Modern Compact Design
- MOSFET transistor modules
- 95% maximum conversion efficiency
- Wide matching range capability
- Full compliment of direct metering for power supply operating conditions
- Single main control board
- Isolation output transformer
- Sealed enclosure requiring no external air for cooling
- Single side access for easy installation



12.5 & 25 kW System

### Operator & Systems Interface:

- Illuminated heat on and ready push-button
- E-Stop, heat-off & reset push-button
- Built in Multi Step timer with digital display
- The ramp and soak controls are programmable with up to 12 heating profiles or jobs.
- Each profile contains up to 25 steps of time and power combinations
- Single turn power control potentiometer
- Serial communications port (RS232 standard – optional 485)
- Full digital metering for power, voltage, current and frequency
- Diagnostic fault & limit indicators for voltage, current and frequency
- Fault indicators for water temperature and pressure
- Main input circuit breaker
- Centrally located terminal block for customer interface connections
- Internal load matching components
- Optional remote heat station available
- 0-10 volt or 4-20mA signal interface

## Power Supply Specifications:

- Power circuit is utilizing MOSFET power devices for switching
- Nominal output frequency 135-400 kHz (35-100 kHz option available)
- Minimal power output level is 3% of rated power output
- All kilowatt sizes are provided from the factory in current control
- Output regulation accuracy is +/- 1/2% with +/- 10% change in incoming line
- Input line to load conversion efficiency of 95%
- Input power requires 3 phase at rated voltage, 50 to 60 hertz
- 105 degree maximum inlet water temperature
- 30 psi minimum differential water pressure with differential switch protection
- NPT thread connections on water inlet/outlet
- Constant resonant frequency tracking throughout the heating cycle

## Optional Features:

- Remote heat stations
- Automatic line speed compensation
- Process fixturing, tooling and turnkey systems available



3 kW Bench Model



5 & 7.5 kW Bench Model

MK-30 Sizing and Operational Range					
kW	Cabinet Size (WxDxH)	Line Voltage	kVa	Cooling Water GPM	Weight LBS
3.0	12x21x13	240, 1-Phase	5.8	0.5	45
5.0	15x24x14	240, 3-Phase	5.7	1.0	55
7.5	15x24x14	240, 3-Phase	8.7	1.5	60
12.5	20x15x36	240, 3-Phase	14.5	2.5	185
25.0	20x15x36	240, 3-Phase	29	3.0	235

\* Specifications subject to change without notice.



21905 Gateway Road Brookfield WI 53045  
 Toll Free: 1-800-558-7733 . 262-317-5300 . Fax: 262-317-5394  
 Website: [www.pillar.com](http://www.pillar.com) . E-mail: [sales@pillar.com](mailto:sales@pillar.com)