

Power Supply

Induction Heating Technology

Power Range: 25kW – 50kW

Frequency Range: 10kHz, 25kHz

Pillar Induction leads the industry in designing and manufacturing of standard and custom induction heating systems to meet the individual needs of its customers throughout the world.

System Features Include:

- IGBT transistor modules
- Electrical isolation
- Single main control board
- NEC wiring codes & NFPA-79 wiring codes
- Inlet and outlet pressure gauges with pressure differential switch
- Internal heat station which includes:
 - Sufficient high frequency capacitance to properly match the heating coil.
 - Output transformer suitable for matching the converter output voltage to that required by the induction coil.
- Water inlet and outlet on top of cabinet
- Safety door interlock switch
- CE or ETL certification available
- Forklift slots under cabinet
- Precut power exit and entry locations
- Current transformer for sensing the coil current
- Control board with a choice of three feedback inputs
- Front panel diagnostics
- 95% conversion efficiency
- Sealed enclosure that does not require external air for cabinet cooling
- Single sided front door access
- Full complement of direct metering for power supply operating conditions

Optional Features Include:

- Remote operator's panel (in addition to local panel)
- Automatic line speed compensation for high speed in-line installations
- Process fixturing, tooling and turnkey systems available
- Preventative maintenance and extended warranty programs available

MK25

Features & Specifications



50kW 25kHz MK25



Power Supply



Indexing Dial Brazing Cell



Multi-unit installation

Power Supply Specifications

- Power circuit is voltage source, fundamental frequency output utilizing IGBT's (Insulated Gate Bipolar Transistors) for power switching
- Minimal power output level is less than 5% of rated power output
- Maximum 95°F (35°C) maximum inlet water temperature
- 30 psi minimum differential water pressure with differential switch protection
- NPT thread connections on water inlet/outlet
- Ground fault detection circuitry
- Input power factor is 0.95 or better from 0% to 100% output
- Output regulation modes: voltage, power or current
- Output regulation accuracy is $\pm 1\%$ with input voltage variation of up to $\pm 10\%$
- Input voltage is 480 volts, 3 phase, 50 or 60 Hz
- Sound level is less than 85db
- Ramp up from 0% to 100%, 100ms
- 0-10 volt or 4-20 mA interface

	25 kW	30 kW	40 kW	50 kW
Frequency	10kHz or 25kHz			
kVA	30	36	48	60
Current	38	46	60	75
GPM/lps	11 / 0.70	11 / 0.70	15 / 0.95	15 / 0.95
Wt. (lbs/kg)	1,150 / 525	1,150 / 525	1,350 / 615	1,350 / 615
Dim. (in)	36" x 30" x 72" 915mm x 762mm x 1,830mm	36" x 30" x 72" 915mm x 762mm x 1,830mm	36" x 30" x 72" 915mm x 762mm x 1,830mm	36" x 30" x 72" 915mm x 762mm x 1,830mm

Specifications subject to change without notice.

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