

Get the results you need in your heating process...



...power to 45kW

...operation from 50kHz to 150kHz

World-class Induction Heating Systems

Versatile

- efficient heating of many part geometries, sizes and compositions
 - multiple capacitor configurations
 - multiple tap transformer configurations
- repeatable, reliable heating, agile frequency tuning
- through-Curie heating
- movable work head; up to 30m(100')
- sub-second to continuous cycle times
- remote operation or logging with RS485 port
- accepts international AC line voltages

Easy to Use

- user-friendly operator front panel controls
- system configuration from front panel
- cycle timer, peak and short-cycle data capture
- 10 ten-step heating profiles
- overload-tolerant output management
- 5-language display suite (EN, ES, FR, DE, IT)

EKOHEAT induction heating systems for 50-150 kHz range provide reliable and repeatable solutions for high-speed heating of smaller parts where the part geometry or the coil size requires high frequency for efficient heating. Among many typical applications are heat treating of steels, shallow case depth hardening, and heating of steel, aluminum, copper or brass for brazing, shrink fitting, curing, forming and melting.



EKOHEAT is CE marked and manufactured at our ISO 9001:2008 certified facility

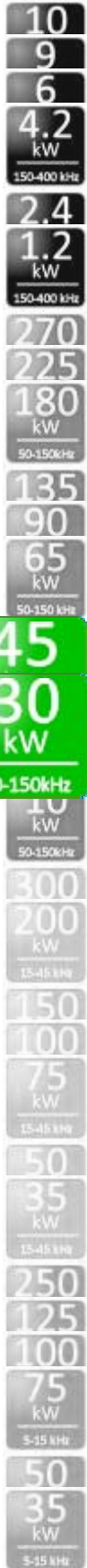
With the versatile EKOHEAT power control system you get rapid tuning, efficient and precise heating of your parts, power control within 0.2% resolution and an easy-to-use, easy-to-read front panel. Remote control is accomplished with 0-10V, 4-20mA inputs, RS485 serial port, 24V controls and remote E-Stop input so integration with your automated production lines is easy.

EKOHEAT technology improves return on investment by reducing your energy usage compared to gas-fired and resistive heating techniques. Flameless, non-contact induction heating minimizes energy waste by focusing energy only on the part and zone to be heated. With very efficient power conversion and a power factor greater than 0.9, your utility demand charges are reduced, lowering your monthly energy bills. EKOHEAT systems

are designed for efficient use of cooling water, further lowering your operating costs.

Automatic tap changer, multiple work head controller, pendant stations, heat exchangers, data logging and other options and accessories are available for a wide variety of applications.

This is a water-cooled system, requiring connection to a heat exchanger or other means of dissipating heat.



| Specification | 30/100 | 45/100 | units |
|---------------------------------|---|-----------------|--------------|
| RF Terminal Power (continuous) | 30 | 45 ² | kW |
| AC Line Power | 35 | 52 | kVA |
| Power Factor | 0.92 | | |
| Output Frequency | 50-150 | | kHz |
| AC Line Voltage | 360 – 520 | | Vac, 3Ø |
| AC Line Protection ¹ | 80 | 100 | A |
| Display | LCD monochrome, 240w x 128h pixels | | |
| Serial Communication | RS485 standard (RS485/232 converter optional) | | |
| Process Timer | 0.01 - 10000 | | sec |
| Compliance ³ | CE EN61010 EN55011 | | |
| Max Ambient Temp | 45 (115) | | °C(°F) |
| Ingress Protection | IP54 | | |
| Shipping Weight (System) | 115 (253) | | kg(lb) |
| Power Unit Weight | 68 (150) | | kg(lb) |
| Workhead Weight | 20 (45) | | kg(lb) |
| Power Unit Dimensions | 436x721x762 (17.2x28.4x30) | | WxDxH mm(in) |
| Work Head Dimensions (typ) | 203x458x229 (8x18x9) | | WxDxH mm(in) |

Water Cooling

| | | |
|-------------------------------|---------------------|---------------------------|
| Flow ⁴ | 9.5 (2.5) | l/m (g/m) |
| Pressure Differential (range) | 2.8 – 5.6 (40 – 80) | bar (lb/in ²) |
| Max Water Temp | 35 (95) | °C(°F) |

- 1) fast-acting fuses
- 2) maximum output may vary by frequency and load conditions
- 3) suitable for incorporation into equipment for compliance with Machinery Directive
- 4) power supply; required workhead coil flow requirements vary by application



Options and Accessories

- ✓ start-up assistance
- ✓ heat exchanger or chiller
- ✓ pendant station
- ✓ autotap selection
- ✓ redundant safety relays
- ✓ multi workhead controller
- ✓ eVIEW serial data reporting
- ✓ footswitch
- ✓ extended work head cable lengths
- ✓ optical pyrometer (closed-loop temperature control)
- ✓ external controller (plc)
- ✓ front E-stop with retransmission



EKOHEAT features a front panel programmable controller for monitoring, timer & power-level control, diagnostics and system configuration. Up to 10 ten-step heating profiles can be configured to control power levels over your specified timing requirements.



Visit our extensive library of Application Notes at www.ameritherm.com/appnotes.php

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