

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

**EKOHEAT ES** ...power to 135kW  
...operation from 50kHz to 150kHz

## World-class Induction Heating Systems

### Versatile

- efficient heating of many part geometries, sizes and compositions
  - multiple capacitor configurations
  - multi-tap transformer configurations
- repeatable, reliable heating with 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	65/100	90/100	135/100	units
RF Terminal Power (continuous)	65	90 <sup>2</sup>	135 <sup>2</sup>	kW
AC Line Power	74	104	155	kVA
Power Factor	0.92			
Output Frequency	50-150			kHz
AC Line Voltage	360 – 520			Vac, 3Ø
AC Line Protection <sup>1</sup>	160	200	300	A
Display	LCD monochrome, 240w x 128h pixels			
Serial Communication	RS485 standard (RS485/232 converter optional)			
Process Timer	0.01 - 10000			sec
Max Ambient Temp	45 (115)			°C(°F)
Compliance <sup>3</sup>	CE EN61010 EN55011			
Ingress Protection	IP54, NEMA 12			
Dimensions	914x848x1956 (36x33x77)			WxDxH mm(in)
Weight	288 (635)		318 (700)	kg (lb)

### Water Cooling

Specification	65/100	90/100	135/100	units
Flow <sup>4</sup>	19(5.0)		28.4(7.5)	l/m (g/m)
Pressure Differential (range)	2.8–5.6 (40–80)			bar (lb/in <sup>2</sup> )
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 only; required work head and coil flow requirements vary by application

## EKOHEAT ES

### 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.



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