

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



...power to 250kW
...operation from 5kHz to 15kHz

World-class Induction Heating Systems

Versatile

- efficient heating of many part geometries, sizes and compositions
 - multi-tap 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 5-15 kHz range provide reliable and repeatable solutions for heating with large coils or for heating larger parts. Typical applications include heating of hard-to-couple parts, deeper heat penetration, crystal growing, heat treating steel, preheating for forging of steel, aluminum, copper or brass, and melting in crucibles.

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	75/10	100/10	125/10	250/10	units
RF Terminal Power (continuous)	75	100	125	250	kW
AC Line Power	86	115	144	288	kVA
Power Factor	0.92				
Output Frequency	5-15				kHz
AC Line Voltage	360 – 520				Vac, 3Ø
AC Line Protection ¹	225	225	300	600	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 ²	CE EN61010 EN55011				
Ingress Protection	IP54, NEMA 12				
Dimensions	914x848x1956 (36x33x77)				WxDxH mm(in)
Weight	204(450)			261(575)	kg (lb)

Water Cooling

Flow ³	19 (5.0)	38 (10)	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) suitable for incorporation into equipment for compliance with Machinery Directive
- 3) 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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