

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



...power to 50kW
...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. Among the many typical applications are 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.

10
9
6
4.2 kW
150-400 kHz
2.4
1.2 kW
150-400 kHz
270
225
180 kW
50-150 kHz
135
90
65 kW
50-150 kHz
45
30 kW
50-150 kHz
15
10 kW
50-150 kHz
300
200 kW
15-45 kHz
150
100 kW
15-45 kHz
75
50 kW
15-45 kHz
500
375 kW
7-15 kHz
250
125
100
75 kW
5-15 kHz
50
35 kW
5-15 kHz



Specification	35/10	50/10	units
RF Terminal Power (continuous)	35	50	kW
AC Line Power	43	57	kVA
Power Factor	0.92		
Output Frequency	5-15		kHz
AC Line Voltage	360 – 520		Vac, 3Ø
AC Line Protection ¹	70	100	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	436 x 721 x 762 (17.2 x 28.4 x 30)		WxDxH mm(in)
Weight	75 (165)		kg (lb)

Water Cooling

Flow ³	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) suitable for incorporation into equipment for compliance with Machinery Directive
- 3) power supply; required workhead 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.



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

Ambrell Companies

Ameritherm Inc.
www.ameritherm.com
+1.585.889.9000

Cheltenham Induction Heating, Ltd.
www.cihinduction.com
+44 (0)1242 514042

Ambrell
fr.ambrell.com • www.ambrell.com
+33 (0)3 89 76 01 24 • +31 (0)548 659044