

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

EKOHEAT

...power from 65kW to 135kW

...operation from 50kHz to 150kHz

World-class Induction Heating Systems

Versatile

- *efficient heating of many part geometries*
- *agile operation for repeatable, reliable heating*
- *movable remote work head; up to 30m (100')*
- *remote operation or logging with RS485 port*
- *accepts international AC line voltages*

Easy to Use

- *user-friendly control interface*
- *sub-second to continuous cycle times*
- *programmable configuration; 10 six-step profiles*
- *cycle timer, peak & short-cycle data capture*
- *overload-tolerant output management*
- *5-language display suite (EN,ES,FR,DE,IT)*

EKOHEAT induction heating systems provide a reliable solution for heating your larger parts with a quick, clean source of heat. 65kW, 90kW and 135kW models are all ideal for repeatable, non-contact heating. The remote work head can be located up to 4.6m (standard) to 30m (15' to 100') from the power supply.

Operating over a broad frequency range (50-150kHz), it is ideal for heating parts of many geometries and compositions. Power is efficiently delivered through a wide range of coils and loads with precision heating control within 50 W resolution.

Agile tuning supports single-cycle and continuous heating operations without time-consuming changeovers. Its broad frequency range enables one system to supply deep, bulk heating for brazing or melting and more shallow, concentrated heating for case-hardening. Flameless, non-contact heating minimizes energy waste by focusing energy only on the zone to be heated.

Remote process control is available: 24Vdc control inputs, analog outputs and serial data for logging and verification.

EKOHEAT is a water-cooled system, requiring connection to a heat exchanger or other mechanism for dissipating heat.



EKOHEAT is CE marked & manufactured at our ISO9001:2000 certified facility

Ameritherm Inc.
www.ameritherm.com
+1.585.889.9000

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

Ameritherm France Sarl
fr.ambrell.com
+33 (0)3 89 76 01 24

Specification	65/100	90/100	135/100	units
RF Terminal Power (continuous)	65	90 ²	135 ²	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 ¹	150	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	CE			
Ingress Protection	IP54, NEMA 12			
Dimensions	914x848x1956 (36x33x77)			WxDxH mm(in)
Weight	274 (603)		303 (668)	kg (lb)

Water Cooling

Specification	65/100	90/100	135/100	units
Flow ³	19 (5.0)		28.4 (7.5)	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) Power supply only; required work head and coil flow requirements vary by application

EKOHEAT

Options and Accessories

- ✓ Start-up assistance
- ✓ Heat exchanger or chiller
- ✓ Changeover switch to drive multiple work heads
- ✓ Pendant Station
- ✓ Footswitch
- ✓ Extended work head cable lengths
- ✓ Optical pyrometer (closed-loop temperature control)
- ✓ External controller (PLC)



EKOHEAT features a front panel programmable controller for monitoring, timer and power-level control and diagnostics. Up to 10 six-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/apnotes.php