

EKOHEAT²

With Advanced Internal Monitoring™

Power to 50 kW; Operation from 5 kHz to 40 kHz

The World's Most Advanced Induction Heating System

We've designed and engineered our new EKOHEAT 2 product offering to better solve your process heating challenges with an innovative, industry-leading internal control and power delivery system. From the evolution of Ambrell's exclusive VPA Technology, our enhancements can boost your process accuracy, reduce your system cooling requirements, and support your work with a new control panel and suite of diagnostics and guides.

By applying the latest semiconductor technologies, the control and monitoring of output, voltage, power and resonant frequency are digitized, thereby improving your process efficiencies and responsiveness.

We believe EKOHEAT 2 is the world's most advanced induction heating system. For a comprehensive look at the many features/benefits of our EKOHEAT 2 product line, refer to brochure #411-0209.



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

EKOHEAT 2 With Advanced Internal Monitoring

- **Lower system costs** are realized as EKOHEAT 2 power supply is designed to use a higher temperature water cooling solution over competitive models
- **Real-time monitoring** of internal components provides better predictive fault control, enhanced preventative maintenance capabilities and more
 - Delivers more 'up' time and reduces waste of customer-manufactured product due to unexpected faults
- **Speed and quantity of data** are exponentially increased to address new Industry 4.0 standards
- **Substantial memory capacity** allows for digital storage of documents and support material such as multi-language user manuals and how-to videos
- **30% fewer water connections**, which increases reliability and lessens the chance for leaks
- **Full digital tuning** is provided via analog control loops for both turning and setpoint
- **Multi-zone heating** options will allow a single cabinet to run separate work coils with independent setpoints

EKOHEAT 2 is CE marked and manufactured at our ISO 9000-certified facility.

SPECIFICATIONS

SPECIFICATION	20 kW	35 kW	50 kW	UNITS
RF Terminal Power ⁵	20	35	50	kW
AC Line Power	24	42	60	kVA
Power Factor	0.92			
Output Frequency	5 – 40			kHz
AC Line Voltage	360 - 520			Vac, 3Ø
AC Line Protection ¹	50	80	100	A
Display	7-inch color touchscreen			
Serial Communication	RS485, Modbus RTU, Modbus TCP			
Process Timer	0.01 – 252h:59m:59s			sec
Max Ambient Temp	45 (115)			Degrees C (F)
Compliance ²	CE, EN61010, EN55011			
Ingress Protection	IP54, NEMA 12			
Power Unit Dimensions	686 x 425 x 635 (27 x 16.75 x 25)			W x D x H mm (in)
Weight	64 (140)			kg (lb)
WATER COOLING				
Flow ³	1.6 (0.5)			l/m (g/m)
Flow Including Workhead and Coil ⁴	9 (2.4)	16 (4.2)	20 (5.2)	l/m (g/m)
Pressure Differential (Range)	2.8 – 6.0 (40 - 87)			bar (lb/in ²)
Maximum Input Pressure	6.0 (87)			bar (lb/in ²)
Max Water Temp (power supply)	45 (115)			Degrees C (F)

- 1) Fast-acting fuses
- 2) Suitable for incorporation into equipment for compliance with Machinery Directive
- 3) Power supply only; workhead coil flow requirements vary by application
- 4) Assumes 70% coil losses
- 5) Continuous, 8% overload allowed



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