

# Sinac<sup>®</sup> 50/80 SM



Incorporating the very latest advances in induction technology, the Sinac range offers unrivalled reliability and application flexibility.

**Sinac increases throughput.**

Fast, easy, accurate and repeatable heat delivery improves productivity.

**Sinac improves quality.**

Sinac's microcontroller feature lets you pre-set temperatures and ramp-up and dwell times. Precise repeatability of heating cycles is assured.

**Sinac is environment friendly.**

No flames, no gas and virtually no radiant heat mean a more comfortable, more productive working environment. Good news for the natural environment, too.

**Sinac lets you do more.**

Sinac's flexibility and application versatility let you perform practically any heating task.

**Sinac reduces costs.**

Precise heat delivery means you get things right the first time. Scrap, re-working and energy costs are minimized.



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## PRODUCT FEATURES

### Stationary systems

Sinac is EFD Induction's range of complete stationary heating systems. Sinac's compact design saves valuable floor space and simplifies in-line integration and retrofitting.

### Range of coils

Sinac systems can be fitted with a practically limitless range of coil designs. EFD Induction are specialists at designing, testing and delivering customized, long-life coils.

### Advanced MMI

Sinac features the latest in Man/Machine Interface (MMI) control panels. Sinac's clear, menu-based and multilanguage control panel ensures maximum ease-of-use. Functionality is based on our specially designed microcontroller.

### Remote control

A remote control unit lets you control heating cycles via feedback to the microcontroller. Sinac is available with field buses and is compatible with Profibus-DP, Interbus, Ethernet. etc.

### Robot compatible

Sinac can be adapted to any robot, allowing quick, no-fuss intergration into automated production lines. The HHT can easily be mounted on a robot arm.

### Maximum output power

With Sinac's maximum power feature you can, for limited periods of time, operate with an output power far in excess of the continuous output power.

## APPLICATIONS AREAS

Sinac is ideal for a wide range of applications: brazing, shrink fitting, hardening, curing, straightening, heat treatment, etc. Sinac is suitable for heating all kinds of electrical conductive materials like copper, aluminum, steel, stainless steel, brass, titanium, etc.

## TECHNICAL DATA

Model	Sinac 50/80 SM
<b>Output</b>	
Continuous output power	50 kW
Max. output power	80 kW
Duty factor / cycle time	50%/10 min
Output power regulation range	2-100 %
Frequency range	10 - 40 kHz
HHT 400 power cable length	5 m
<b>Supply</b>	
Supply voltage range	3x 400-480 V ± 10%
Frequency	50/60 Hz
Nominal line current	90A (RMS)
Max. line current at 360 V	135A (RMS)
Nominal apparent power	62 kVA
Maximum apparent power	90 kVA
Recommended fuse	100 Amp
Mains cable length	5 m

### Cooling

Water consumption, min.	22 l/min*
Water inlet temperature	max. 35°C
Water pressure min./max.	4/6 bar *
Cooling water quality - ph	between 7.0 and 9.0

### Enclosure

Ambient operating temp.	+5°C - +50°C
Outer dimensions (WxDxH)	600x350x800 mm
Weight with HHT 400	90 kg
Enclosure protection	IP 54
Color	RAL 7035 Grey
HHT 400 outer dimension (LxOD)	190 x 76.1 mm
HHT 400 weight without handle	5,5 kg

Subject to modification

\* Dependent of coil