

Minac[®] 140/220 SM



The picture shows a Minac 70/110

Mobile, flexible and easy-to-use. The Minac brings the benefits of induction to tough-to-access workpieces

Minac increases throughput.

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

Minac improves quality.

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

Minac 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.

Minac lets you do more.

Minac's mobility and application versatility let you perform practically any heating task.

Minac reduces costs.

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



Minac® 140/220 SM

PRODUCT FEATURES

Mobile induction

Minac is light enough to be carried in a normal car. You no longer have to transport workpieces to the induction system—often a costly and time-consuming process.

Range of coils

Minac 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

Minac features advanced Man/Machine Interface (MMI) control panels. Minac's clear, menu-based and multi-language control panel maximize ease-of-use. Functionality is based on our specially designed microcontroller. The coil can either be fixed in position, or operated manually when attached to a handheld transformer (HHT).

Remote control

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

Robot compatible

Minac 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 Minac'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

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

TECHNICAL DATA

Model	Minac 140/220 SM
Output	
Continuous output power	140 kW
Max. output power	220 kW
Duty factor / cycle time	50%/10 min
Output power regulation range	2-100%
Frequency range	10-25 kHz
HHT 1200 power cable length	5 m / 10 m
Supply	
Supply voltage range	3 x 400-480 V \pm 10%
Frequency	50/60 Hz
Nominal voltage	400 V
Nominal line current	260A (RMS)
Max. line current intermittent	386A (RMS)
Nominal apparent power	180 kVA
Maximum apparent power	267 kVA
Recommended fuse	250 Amp
Mains cable length	5 m

Cooling

Water consumption, min.	50 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)	400 x 1041 x 1211 mm
Weight with HHT 1200 / 5 m	290 kg (approx.)
Enclosure protection	IP 54
Color	RAL 7035 Grey
HHT 1200 outer dimension (LxOD)	374 x 110 mm
HHT 1200 weight without handle	20 kg

Subject to modification

* Dependent of coil