Inductron II MPC

Microprocessor Controlled Induction Heating Power Supplies

Inductron II MPC power supplies take the guesswork out of matching power to work piece requirements. That is because we have more than doubled the operating range/flexibility of these units to give you more than 25 power/frequency options. Inductron II MPC power supplies are offered in single frequency and dual frequency configurations. Voltage source Inductron II MPC power supplies incorporate circuitry with high voltage semi conductors for long life, resulting in reduced downtime and higher production. Components are modular and accessible from the front of the cabinet.

Benefits

- The right power to meet job requirements
- Provides greater process flexibility
- Reduces need for power factor correction
- Maximizes uptime
- Allows for quick and easy change-over to new process/parts
- Tank circuit operates at lower voltages
- Provides clear and concise status
- Integrates easily into modern equipment and SPC systems
- Allows power supply to be mounted against a wall or machine
- Allows access to printed circuit board status LED's without exposure to high voltage

Features

- Over 50 power/frequency combinations
- Single, dual and variable frequency capability
- 95% efficiency at full load with an input power factor exceeding 0.93
- Built-in diagnostic routines simplify servicing
- 20-function keyboard for easy data entry
- 80 character alphanumeric display
- 50 or 250 millisecond ramp speed
- Two RS-232 ports to interface with PLC, PC or plant computer
- Easy access to all components from front of machine
- Door-on-door design for operator safety

Ajax Tocco Magnethermic

Specifications

Frequency & Output Power

Single Frequency

1 kHz 250 - 1,000 kW
2 kHz 200 - 800 kW
3 kHz 200 - 800 kW

Dual Frequency

3 and 10 kHz 30 - 900 kW
10 and 25 kHz 50 - 300 kW

Regulation Accuracy

+/- 1% with +/- 10% line variation

Power Supply Efficiency

90% to 95% overall (min.)

Ambient Temperature and Sound Level

125° F (52° C)
80 to 85 dbA at 3 ft. (1 m) at 9.6 kHz

Cooling Water Volume

Approximately 14 GPM (38.75 liters) per 100 kW

Input Water Temperature

95° F (35° C) Max..

Input Water Pressure

90 PSI Maximum (6.2 bar)
30 PSI (2.0 bar) minimum differential

Safety Features (All Models)

NEMA 12 (JIC E7.1.3) type enclosure; Interlocks on doors; control and high voltage disconnect; optional internal lighting

Logic System

CMOS-type microprocessor-based with 20-function keyboard for data entry

Diagnostics

Built-in routines to monitor

Operating Temperatures

32° F to 125° F
(0° to 52° C)

Display

Four line (20 characters per line) alphanumeric display utilizing interactive operator prompts

Remote Communications

Two RS-232 ports to interface with PLC, plant computer or PC. Four non-dedicated channels to monitor/display functions such as part temperature and line speed

Options

Digital interface card, energy monitor. 12-pulse rectifier cabinet light, automatic frequency switching, analog control, Ajax Tocco Coil Monitor

Specifications subject to change without notice

www.ajaxtocco.com
24 Hour Service
1-800-547-1527