INDUSTRIAL SPECIALTY PRODUCTS

MPH IND35

Miller ProHeat 35 Liquid-Cooled Induction System

Description
The ProHeat 35 liquid-cooled induction heating system provides a highly versatile tool for preheating, stress relieving, hydrogen bake out, post weld heat treat, and shrink fit in a variety of pipe diameters and flat plate.

Designed with flexibility in mind, the ProHeat liquid-cooled induction heating cables can be wrapped into coils of various shapes and sizes to fit almost any induction heating application. Great for applications with geometries and temperatures that prevent the use of air-cooled blankets.

- **Powering a heating revolution for applications up to 1,450 degrees Fahrenheit (788°C)**
- **Improved working environment** is created during welding. Welders are not exposed to open flame, explosive gases, and hot elements associated with fuel gas heating and resistance heating
- **Easy setup** is achieved using flexible heating cables combined with user-friendly insulation blankets
- **Time-to-temperature** is faster than conventional processes due to the method of applying heat, reducing cycle time
- **On-board temperature control** provides for manual or temperature based programming in a simple-to-learn operator interface
- **Uniform heating** is maintained along and through the heat zone by using induction heat within the material. The surface of the part is not marred by localized conducted heat at higher than specified temperatures.

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Specification	Description
Maxium Temperature	1,450°F (788°C)
Input Power	460–575 V, 3-phase, 60 Hz, 400–460 V, 3-phase, 50/60 Hz
Input Amperes at Rated Output	400 V: 60 amps, 460 V: 50 amps, 575 V: 40 amps
Rated Output	35 kW at 100% duty cycle
Power Source Dimensions	H: 27.5 in. (699 mm), W: 21.75 in. (552 mm), D: 36.75 in. (933 mm)
Power Source Weight	Net: 227 lb. (103 kg) Ship: 265 lb. (120 kg)
Interconnect Cable	Temperature output, 5 ft. (1.5 m), used with customer-supplied recorder
Ambient Temperature Range	Storage: -40 to 131°F 4 to 131°F (-40 to 55°C), Usage: 4 to 131°F (-15 to 55°C)
KVA/KW at Rated Output	39/37

This simple and cost-effective heating process can deliver fast and consistent heat for:

- Welding fabrication and construction
- Preheating of welds
- Post-weld heat treatment
- Coating removal
- Shrink fit applications
- Applications that would typically require hours to heat can be done in minutes utilizing induction heating

In addition to the simplicity and efficiency, the ProHeat 35 induction heating system solves many key issues in today's environment:

- Does not produce the exposure to burns associated with open flames and electrical resistance wires (only the work part becomes hot)
- No significant expense of fuel gases
- Produces fewer fumes than flame heating
- Produces less particulate from overheated insulation caused by high temperature electrical wires and ceramic pads.

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