Pro-Heat™ 35
Part No: MR907432

Weld Pre-Heating & Stress Relieving.

MULTIPLE OUTPUTS
Provides two insulated connectors for air-cooled blankets or liquid-cooled cables.

LOW CONSUMABLE COSTS
No fuel costs and minimal insulation costs. Insulation is reusable and may be used 50 times or more, reducing cost of disposal and replacement.

ON-BOARD TEMPERATURE CONTROL
Provides for manual or temperature-based programming in a simple-to-learn operator interface.

MULTIPLE CONTROL THERMOCOUPLE INPUTS
Control on the hottest TC during heating and coolest TC during cooling for uniform heating and quality.

OPEN OUTPUT DETECTION
Prevents system operation without a covered output receptacle (cable or protective plug).

*Image shows Water Cooled set up example.
**Pro-Heat™ 35**
Part No: MR907432

**REDUCE PREHEATING TIME BY UP TO 400%**
Miller’s Induction Heating system brings a part to temperature in a fraction of the time, compared to traditional flame and resistance heating processes. It also holds the part at the specified temperature. With Miller’s Pro-Heat™, pre-heat time can be reduced by up to 400%. To put this in perspective, companies using the Pro-Heat™ have reduced pre-heating time from over two hours to just 30 minutes.

**ISOLATION FAULT PROTECTION**
Provides automatic system shut down should power source output short to ground. A sense lead provides direct feedback to the power source to sense fault condition.

**LIQUID COOLED INDUCTION HEATING SYSTEM**
Designed for preheating, hydrogen bake-out and stress relieving applications up to 788°C.

**EASY SET-UP**
Achieved using preheat blankets or flexible heating cables combined with user-friendly insulation blankets. Easy to install primary power through panel that does not require removal of sheet metal.

**THE PRO-HEAT 35 ROLLING INDUCTION SYSTEM**
A simple and cost effective heating solution which delivers fast and consistent heat to rotating parts up to 315 degrees.

**UNIFORM HEATING**
Heating is maintained along and through the heat zone by using induction to heat within the material. The surface of the part is not marred by localized conducted heat at higher than specified temperatures.

**CABLE IDENTIFICATION SYSTEM**
Knows the type of cable attached and limits output to protect cables and blankets.

**TIME-TO-TEMPERATURE**
Faster than conventional processes due to the method of applying the heat, reducing heating cycle time.

**AIR-COOLED INDUCTION HEATING SYSTEM**
Designed for preheating applications up to 204°C.

**APPLICATIONS**
- Transmission Pipeline – Construction/Repair
- Pipe Fabrication Shops
- Power Piping – Construction/Repair
- Petrochemical – Construction/Repair
- Shipbuilding
- Mining Equipment Maintenance
- Drill Pipe Manufacturing
- Shrink Fit

**1 YEAR WARRANTY**
For details, refer to Miller’s True Blue warranty statement.

<table>
<thead>
<tr>
<th>INPUT POWER</th>
<th>OUTPUT FREQUENCY</th>
<th>RATED OUTPUT</th>
<th>INPUT AMPS AT RATED OUTPUT</th>
<th>KVA/KW AT RATED OUTPUT</th>
<th>DIMENSIONS (MM)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 - 460 V, 3 Phase 50/60 Hz CE</td>
<td>5 - 30 kHz</td>
<td>35 kW at 100% Duty Cycle</td>
<td>60 A, 400 V</td>
<td>39/37</td>
<td>H: 669 W: 552 D: 933</td>
<td>103kg</td>
</tr>
</tbody>
</table>
**Pro-Heat™ 35**

**Rolling Induction System**

**PRO-HEAT 35**

*PART NO: MR907690*

*400 – 460 V, CE*

The Pro-Heat 35 induction power source is equipped with a built-in temperature controller allowing for manual or temperature-based programming with an easy-to-learn operator interface. At more than 90 percent efficiency, the Pro-Heat 35 power source transfers more energy to the part, reducing operating costs over different heating methods. One Pro-Heat 35 power source can run a single or double Rolling Inductor setup. Note: Primary input cable and strain relief not included.

**RUNNING GEAR**

*PART NO: MR195436*

The running gear adds to the portability of the system. The four 127mm swivel casters with brakes mount to the bottom of the power source and cooler.

**HEAVY-DUTY INDUCTION COOLER, CE**

*PART NO: MR301298*

The heavy-duty induction cooler is designed with an efficient fin-and-tube heat exchanger, 9.5 litres rust-proof polyethylene tank, high-pressure pump and blower to yield a high cooling capacity. When using two Rolling Inductors on one system it is recommended to add the external cooler heat exchanger, see Additional Accessories section.

**PRO-HEAT ROLLING INDUCTOR**

*PART NO: MR301263*

18 metre power cable Liquid-cooled induction head for use with Pro-Heat 35, includes thermocouple extension cable and cable cover. The optional mounting arm allows the Rolling Inductor to ride on the top or side of the pipe.

**IR SENSOR CONNECTION BOX**

*PART NO: MR301182*

Required for connecting the infrared temperature sensor to the Pro-Heat 35. The connection box allows for two IR sensors to be connected to one Pro-Heat. Includes air regulator and filters.
**INFRARED TEMPERATURE SENSOR**

**PART NO:** MR301149

Eliminate the need for constant manual monitoring. The infrared temperature sensor can read the temperature of a moving part. Set the desired preheat temperature and the system will quickly heat to that temperature and hold it. The sensor can read from 100 – 400°C. Requires connection box.

**TRAVEL DETECT SYSTEM**

**PART NO:** MR301183

Avoid overheating—heating rates automatically adjust to varying travel speeds, and when no movement is detected the travel detect system turns off the output preventing damage to the workpiece and Rolling Inductor. The travel detect system can also be used for setting different heating rates based on workpiece speed of travel. Includes all cabling and mounting hardware.

**EXTERNAL COOLER HEAT EXCHANGER**

**PART NO:** MR300993

Increases the cooling capacity of the heavy-duty induction cooler. It is recommended when powering two Rolling Inductors on one Pro-Heat 35 power source.

**UNDER PIPE STAND**

**PART NO:** MR301258

Small lightweight adjustable stand for operating the Rolling Inductor on the bottom side of the pipe, allowing for greater access to the weld joint. The stand holds the Rolling Inductor in contact with the pipe regardless of direction of travel.

**INDUCTION HEATING**

**Pro-Heat™ 35 Rolling Induction System**

Watch the YouTube Video to understand the benefits of the combination of the Pro-Heat 35 and Rolling Inductor.

---

**Watch the YouTube Video**

**RATED OUTPUT**

<table>
<thead>
<tr>
<th>AMBIENT TEMPERATURE RANGE</th>
<th>MAXIMUM PART PREHEAT TEMPERATURE</th>
<th>REQUIRED COOLER</th>
<th>DIMENSIONS (MM)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>STORAGE</td>
<td>USAGE</td>
<td>RATED OUTPUT</td>
<td>AMBIENT TEMPERATURE RANGE</td>
<td>MAXIMUM PART PREHEAT TEMPERATURE</td>
</tr>
<tr>
<td>300 Amps at 100% Duty Cycle</td>
<td>-40 to 82°C</td>
<td>0 to 60°C</td>
<td>315°C</td>
<td>Heavy-Duty Induction Cooler</td>
</tr>
</tbody>
</table>