

ProHeat™ 35

Air-Cooled Induction System

Induction Heating System 

Quick Specs



Applications

Process piping
Refinery
Petrochemical
Power piping
Pressure vessels
Structural
Shipbuilding

Maximum Preheat Temperature

204°C (400°F)

Input Power

400–460 V, 3-phase, 50/60 Hz
460–575 V, 3-phase, 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: 699 mm (27.5 in.)
W: 552 mm (21.75 in.)
D: 933 mm (36.75 in.)

Power Source Weight

Net: 103 kg (227 lb.) Ship: 120 kg (265 lb.)

Powering a heating revolution – for preheat applications up to 204 degrees Celsius (400°F).

The ProHeat 35 air-cooled induction heating system is specifically designed for preheating applications up to 204 degrees Celsius (400°F). Air-cooled blankets are available for pipe diameters from 8–60 inches (20–152 cm) or in case of plate, available lengths are 40–197 inches (1–5 m).

The blankets easily conform to circular and flat parts and install in a matter of seconds. Manufactured from durable high-temperature materials, flexible induction blankets are designed to withstand the tough conditions in both industrial and construction applications.



ProHeat induction blanket shown with replaceable Kevlar® sleeve.



ProHeat 35 power source (907690) shown with optional running gear (195436).

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 with flexibility to fit a variety of pipe diameters and plate lengths.

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.

Time-to-temperature is faster than conventional processes due to the method of applying heat, reducing cycle time.



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ProHeat™ 35 Air-Cooled Induction System

ProHeat 35 Power Source

907690 400–460 V, CE

907689 460–575 V

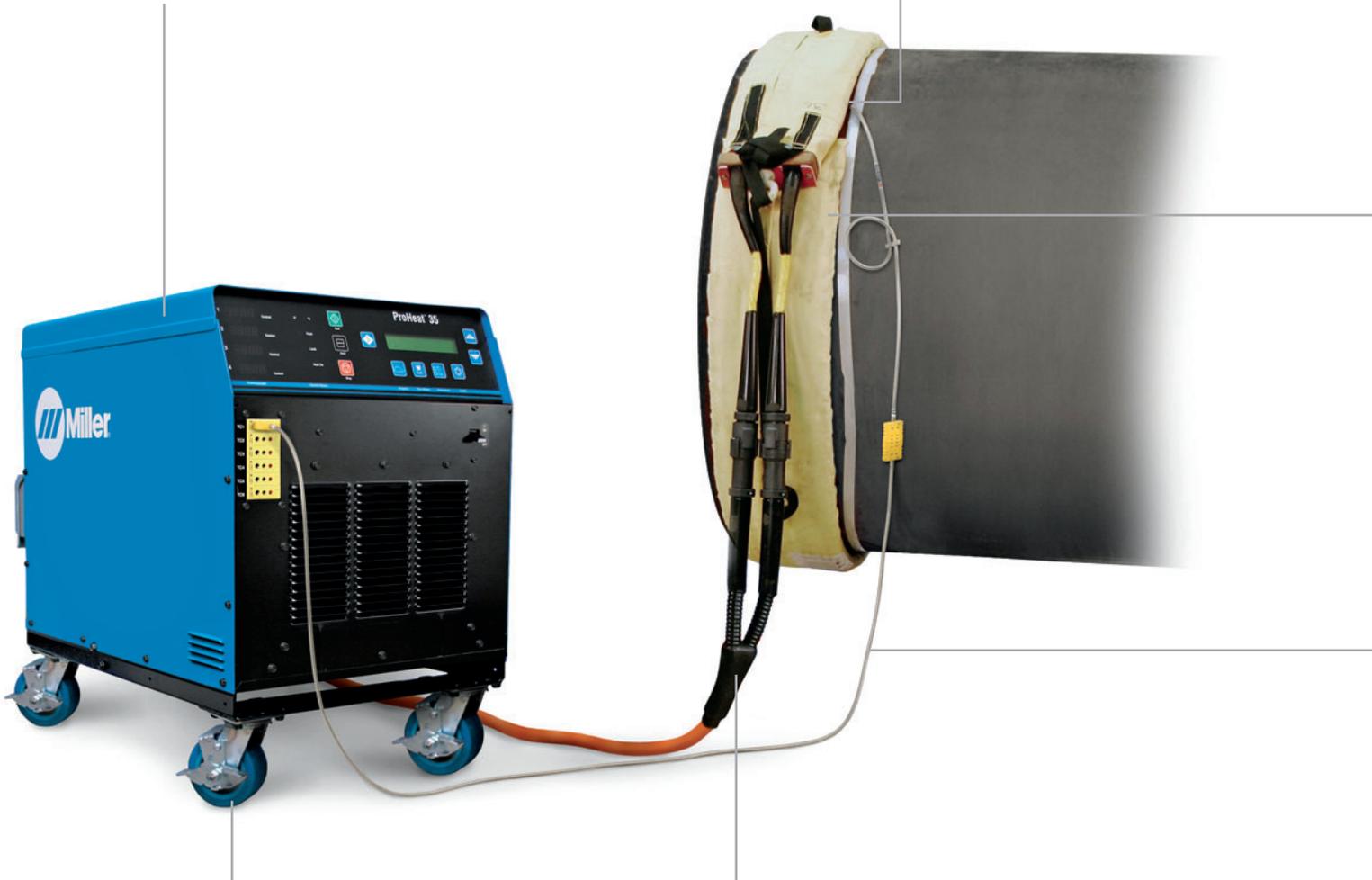
The ProHeat 35 induction power source is equipped with a built-in temperature controller allowing for manual or temperature-based programming using up to four control thermocouples. At more than 90 percent efficiency, the ProHeat 35 power source transfers more energy to the part, reducing operating costs over different heating methods. One ProHeat 35 power source has two outputs and can run one, two (parallel) or four (series/parallel) blankets at a time.

Note: Primary input cable and strain relief not included.

Contact Thermocouple Sensor (Probe)

200202

Contact thermocouple sensor installed between the induction blanket and the part being heated. The temperature probe provides temperature feedback to the power source. For preheat only, 260° degrees Celsius (500°F) maximum.



Running Gear 195436

Running gear adds to the portability of the system. The four 127-millimeter swivel casters with brakes mount to the bottom of the power source.

Output Extension Cable

195404 7.6 m (25 ft.)

195405 15.2 m (50 ft.)

300362 30.5 m (75 ft.)

Provides interconnection between the power source and flexible induction blanket. The power source connection identifies the type of heating device to the power source controller. This cable identification system prevents over duty cycling of the heating blanket.



ProHeat™ 35 Air-Cooled Induction System (Continued)



Induction Blanket

The flexible, lightweight induction heating blankets come in a variety of sizes and are capable of preheat temperatures up to 204 degrees Celsius (400°F). The blankets easily conform to circular and flat parts and install in a matter of seconds. Manufactured from durable high-temperature materials, flexible induction blankets are designed to withstand the tough conditions in both industrial and construction applications. See ordering information on the back page for available sizes.



Thermocouple Extension 200201

A shielded, 7.6-meter (25 ft.) thermocouple extension for connecting between the contact thermocouple sensor and the ProHeat™ 35 power source.

Additional Accessories



Replacement Kevlar® Sleeve

Each blanket is supplied with one replaceable Kevlar sleeve which provides added protection against abrasion, cuts and tears, extending blanket life. Replacement sleeves are available for all blanket sizes. See ordering information on the back page for available sizes.



Series Cable Adapter 195437

Used in series/parallel blanket arrangement to power four blankets to create extra heating area. The series/parallel arrangement requires four equally sized blankets, two output extension cables and two series cable adapters.



Contact Thermocouple Securing Band 301073

Positions the contact thermocouple sensor in the heating zone and retains it in place, ensuring consistent controlled heating.



Remote Contactor Control 043932

Remotely start and stop the heating process with this wired rocker switch remote. Includes a 7.6-meter (25 ft.) cable.



RHC-14 Remote Hand Control

242211020 6 m (20 ft.)

242211100 30.5 m (100 ft.)

Remotely adjust the heat output of the system in manual mode as well as start and stop the heating process.

Specifications (Subject to change without notice.)

| Input Power | Ambient Temperature Range | | Rated Output | Input Amperes at Rated Output | KVA/KW at Rated Output | Dimensions | Weight |
|-------------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|------------------------|--|---|
| | Storage | Usage | | | | | |
| 400–460 V, 3-phase, 50/60 Hz, CE | -40 to 55°C (-40 to 131°F) | -15 to 55°C (4 to 131°F) | 35 kW at 100% duty cycle | 60 A, 400 V 50 A, 460 V | 39/37 | H: 699 mm (27.5 in.) W: 552 mm (21.75 in.) D: 933 mm (36.75 in.) | Net: 103 kg (227 lb.) Ship: 120 kg (265 lb.) |
| 460–575 V, 3-phase, 60 Hz | | | | 50 A, 460 V 40 A, 575 V | | | |

Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

Manufactured and certified in accordance with IEC-60974-1, -10.

IP23 rating — This equipment is designed for outdoor use. It may be stored, but is not intended to be used outside during precipitation unless sheltered. Operating temperature range is -10 to 40°C (14 to 104°F). Storage temperature range is -30 to 65°C (-22 to 149°F). Portions of the preceding text are contained in EN 60974-1: "Welding power sources for arc welding equipment."

Ordering Information

| Equipment and Options | Stock No. | Description | Qty. | Price |
|-------------------------------------|---|---|------|-------|
| ProHeat™ 35 | 907690 907689 | 400–460 V, 3-phase, 50/60 Hz, 35 kW power source, CE 460–575 V, 3-phase, 60 Hz, 35 kW power source | | |
| Running Gear | 195436 | Attaches to bottom of power source | | |
| Induction Blankets | Blanket w/Sleeve | Replacement Sleeve | | |
| | 300080 | 195337 | | |
| | 300079 | 195338 | | |
| | 300078 | 194889 | | |
| | 300077 | 194888 | | |
| | 300075 | 194887 | | |
| | 300074 | 194707 | | |
| | 300073 | 194664 | | |
| | 300072 | 198665 | | |
| | 300071 | 194706 | | |
| | 300070 | 198666 | | |
| | 300069 | 198667 | | |
| | 300068 | 198668 | | |
| | 300067 | 194811 | | |
| | 300066 | 194812 | | |
| | 300065 | 194705 | | |
| | 300064 | 194813 | | |
| | 300087 | 194814 | | |
| | 300063 | 198669 | | |
| | 300088 | 194810 | | |
| | 300062 | 194809 | | |
| | 300061 | 198670 | | |
| | 300060 | 200262 | | |
| | 224584 | 217628 | | |
| | 300336 | 261481 | | |
| | 301088 | 261479 | | |
| | 301089 | 261480 | | |
| | 300847 | — | | |
| Output Extension Cables | 195404 195405 300362 | 7.6 m (25 ft.) 15.2 m (50 ft.) 22.9 m (75 ft.) | | |
| Series Cable Adapter | 195437 | 7.1 m (28 in.) adapter for connecting two blankets in series configuration | | |
| Contact Thermocouple Sensor (Probe) | 200202 | Contact thermocouple sensor. 260°C (500°F) max | | |
| Thermocouple Extension | 194968 300998 200201 | Cable, ext, 6 pair type K, 15.2 m (50 ft.) Cable, ext, 6 pair type K, 22.9 m (75 ft.) Cable, ext, 1 TC type K, 7.6 m (25 ft.) armored | | |
| Contact Thermocouple Securing Band | 301073 | Positions and retains contact thermocouple sensor | | |
| Remote Contactor Control | 043932 | 7.6 m (25 ft.) wired remote on/off for power source | | |
| RHC-14 Remote Hand Control | 242211020 242211100 | 6 m (20 ft.) wired remote for heat and on/off for power source 30.5 m (100 ft.) wired remote for heat and on/off for power source | | |

Date:

Total Quoted Price:

Distributed by:

