

ProHeat™ 35

Air-Cooled Induction System



www.proheat35.com

RHS RAPID HEAT SYSTEMS

Miller

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

400°F (204°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)

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

The ProHeat 35 air-cooled induction heating system is specifically designed for preheating applications up to 400 degrees Fahrenheit (204°C). 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 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 System

ProHeat 35 Power Source

907689 460–575 V

907690 400–460 V, CE

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, 500 degrees Fahrenheit (260°C) maximum.



Running Gear 195436

Running gear adds to the portability of the system. The four 5-inch swivel casters with brakes mount to the bottom of the power source.

Output Extension Cable

195404 25 ft. (7.6 m)

195405 50 ft. (15.2 m)

300362 75 ft. (30.5 m)

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 400 degrees Fahrenheit (204°C). 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, 25-foot (7.6 m) 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 25-foot (7.6 m) cable.




RHC-14 Remote Hand Control

242211020 20 ft. (6 m)

242211100 100 ft. (30.5 m)

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

Ordering Information

| Equipment and Options | Stock No. | Description | Qty. | Price |
|-------------------------------------|------------------|--|--|-------|
| ProHeat™ 35 | 907689 | 460–575 V, 3-phase, 60 Hz, 35 kW power source | | |
| | 907690 | 400–460 V, 3-phase, 50/60 Hz, 35 kW power source, CE | | |
| Running Gear | 195436 | Attaches to bottom of power source | | |
| Induction Blankets | Blanket w/Sleeve | Replacement Sleeve | | |
| | 300080 | 195337 | For 8.625 in. (22 cm) pipe, 13.1 x 40 in. (33 cm x 102 cm) | |
| | 300079 | 195338 | For 10.75 in. (27 cm) pipe, 11.3 x 44 in. (29 cm x 112 cm) | |
| | 300078 | 194889 | For 12 in. (31 cm) pipe, 47 x 10.1 in. (119 cm x 26 cm) | |
| | 300077 | 194888 | For 14 in. (36 cm) pipe, 53 x 10.1 in. (135 cm x 26 cm) | |
| | 300075 | 194887 | For 16 in. (41 cm) pipe, 60 x 10.1 in. (152 cm x 26 cm) | |
| | 300074 | 194707 | For 18 in. (46 cm) pipe, 66 x 9.0 in. (168 cm x 23 cm) | |
| | 300073 | 194664 | For 20 in. (51 cm) pipe, 72 x 9.0 in. (183 cm x 23 cm) | |
| | 300072 | 198665 | For 22 in. (56 cm) pipe, 78 x 9.0 in. (198 cm x 23 cm) | |
| | 300071 | 194706 | For 24 in. (61 cm) pipe, 85 x 9.0 in. (216 cm x 23 cm) | |
| | 300070 | 198666 | For 26 in. (66 cm) pipe, 91 x 9.0 in. (231 cm x 23 cm) | |
| | 300069 | 198667 | For 28 in. (71 cm) pipe, 97 x 9.0 in. (246 cm x 23 cm) | |
| | 300068 | 198668 | For 30 in. (76 cm) pipe, 104 x 9.0 in. (264 cm x 23 cm) | |
| | 300067 | 194811 | For 32 in. (81 cm) pipe, 110 x 9.0 in. (279 cm x 23 cm) | |
| | 300066 | 194812 | For 34 in. (86 cm) pipe, 116 x 9.0 in. (295 cm x 23 cm) | |
| | 300065 | 194705 | For 36 in. (91 cm) pipe, 122 x 7.5 in. (310 cm x 19 cm) | |
| | 300064 | 194813 | For 38 in. (97 cm) pipe, 129 x 7.5 in. (328 cm x 19 cm) | |
| | 300087 | 194814 | For 40 in. (102 cm) pipe, 135 x 7.5 in. (343 cm x 19 cm) | |
| | 300063 | 198669 | For 42 in. (107 cm) pipe, 141 x 7.5 in. (358 cm x 19 cm) | |
| | 300088 | 194810 | For 44 in. (112 cm) pipe, 147 x 7.5 in. (373 cm x 19 cm) | |
| | 300062 | 194809 | For 46 in. (117 cm) pipe, 154 x 7.5 in. (391 cm x 19 cm) | |
| | 300061 | 198670 | For 48 in. (122 cm) pipe, 160 x 7.5 in. (406 cm x 19 cm) | |
| | 300060 | 200262 | For 52 in. (132 cm) pipe, 173 x 7.5 in. (439 cm x 19 cm) | |
| 224584 | 217628 | For 56 in. (142 cm) pipe, 185 x 7.5 in. (470 cm x 19 cm) | | |
| 300336 | 261481 | For 60 in. (152 cm) pipe, 197 x 7.5 in. (500 cm x 19 cm) | | |
| 301088 | 261479 | Narrow, for 48 in. (122 cm) pipe, 160 x 4.5 in. (406 cm x 11 cm) | | |
| 301089 | 261480 | Narrow, for 56 in. (142 cm) pipe, 185 x 4.5 in. (470 cm x 11 cm) | | |
| 300847 | — | 29.75 in. (77 cm) diameter | | |
| Output Extension Cables | 195404 | 25 ft. (7.6 m) | | |
| | 195405 | 50 ft. (15.2 m) | | |
| | 300362 | 75 ft. (22.9 m) | | |
| Series Cable Adapter | 195437 | 28 in. (7.1 m) adapter for connecting two blankets in series configuration | | |
| Contact Thermocouple Sensor (Probe) | 200202 | Contact thermocouple sensor. 500°F (260°C) max | | |
| Thermocouple Extension | 194968 | Cable, ext, 6 pair type K, 50 ft. (15.2 m) | | |
| | 300998 | Cable, ext, 6 pair type K, 75 ft. (22.9 m) | | |
| | 200201 | Cable, ext, 1 TC type K, 25 ft. (7.6 m) armored | | |
| Contact Thermocouple Securing Band | 301073 | Positions and retains contact thermocouple sensor | | |
| Remote Contactor Control | 043932 | 25 ft. (7.6 m) wired remote on/off for power source | | |
| RHC-14 Remote Hand Control | 242211020 | 20 ft. (6 m) wired remote for heat and on/off for power source | | |
| | 242211100 | 100 ft. (30.5 m) wired remote for heat and on/off for power source | | |

Date:

Total Quoted Price:

Distributed by:





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