

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.



Miller Electric Mfg. Co.
An ITW Welding Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

MillerWelds.com




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

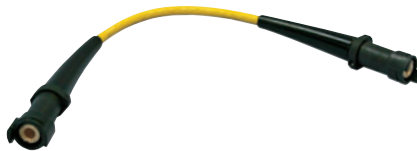
A shielded, 25-foot (7.6 m) thermocouple extension for connecting between the contact thermocouple sensor and the ProHeat™ 35 power source.

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:

