

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). Air-cooled cables are available in lengths of 30 foot (9.1 m), 50 foot (15.2 m) or 80 foot (24.4 m) for flexible configurations.

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.

Designed with flexibility and efficiency in mind, the air-cooled cables can be wrapped into coils of various shapes and sizes to fit almost any induction preheating application, without the need for cooler and coolant. For temperatures up to 392 degrees Fahrenheit (200°C).



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



ProHeat induction blanket shown with replaceable Kevlar® sleeve.

NEW! Air-cooled cables provide the same flexibility as liquid-cooled cables for preheating.

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. LLC
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, CSA

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 not included.



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.

Preheat Insulation with Cable Harness 301334

Air-cooled heating cable coils of various sizes can be attached directly to this preheat insulation. Once a coil is set up it can easily be moved from part to part reducing setup times. The insulation is 10-foot (3 m) long and can be cut to length to fit your application.

Note: Heating cable not included.



Output Extension Cable

195404 25 ft. (7.6 m)

195405 50 ft. (15.2 m)

300362 75 ft. (22.9 m)

Provides interconnection between the power source and flexible induction blanket or air-cooled cable(s). 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 tool.



Air-Cooled Cable

301542030 30 ft. (9.1 m)

301542050 50 ft. (15.2 m)

301542080 80 ft. (24.4 m)

Air-cooled cables may be the right choice when the maximum preheat temperature is 400 degrees Fahrenheit (204°C) and the part is an irregular, non-standard shape that needs flexibility of wrapping the part. Use preheat insulation for temperatures over 392 degrees Fahrenheit (200°C). See ordering information on the back page for preheat insulation sizes.

NEW!



ProHeat™ 35 Air-Cooled Induction System (Continued)



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.



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.

Additional Accessories



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.



Preheat Cable Cover
204611 30 ft. (9.1 m)
204614 50 ft. (15.2 m)
204620 80 ft. (24.4 m)

Used in preheat applications to protect the heating cable from slag and molten metal created during welding. The 1/2-inch thick preheat insulation must be used with the preheat cable covers.



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 blanket sizes based on the diameter of the pipe. See ordering information on the back page for available sizes.



Series Cable Adapter 195437
Used in series/parallel arrangement to power four blankets/air-cooled cables to create extra heating area. The series/parallel arrangement requires four equally sized blankets/air-cooled cables, two output extension cables and two series cable adapters.




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 remote 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, CSA		
	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	194887	For 12 in. (31 cm) pipe, 47 x 10.1 in. (119 cm x 26 cm)	
	300077	194887	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	198666	For 18 in. (46 cm) pipe, 66 x 9.0 in. (168 cm x 23 cm)	
	300073	198666	For 20 in. (51 cm) pipe, 72 x 9.0 in. (183 cm x 23 cm)	
	300072	198666	For 22 in. (56 cm) pipe, 78 x 9.0 in. (198 cm x 23 cm)	
	300071	198666	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	194812	For 28 in. (71 cm) pipe, 97 x 9.0 in. (246 cm x 23 cm)	
	300068	194812	For 30 in. (76 cm) pipe, 104 x 9.0 in. (264 cm x 23 cm)	
	300067	194812	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	198670	For 38 in. (97 cm) pipe, 129 x 7.5 in. (328 cm x 19 cm)	
	300087	198670	For 40 in. (102 cm) pipe, 135 x 7.5 in. (343 cm x 19 cm)	
	300063	198670	For 42 in. (107 cm) pipe, 141 x 7.5 in. (358 cm x 19 cm)	
	300062	198670	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	261481	For 52 in. (132 cm) pipe, 173 x 7.5 in. (439 cm x 19 cm)		
224584	261481	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	261480	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)		
Air-Cooled Cables	301542030	30 ft. (9.1 m)		
	301542050	50 ft. (15.2 m)		
	301542080	80 ft. (24.4 m)		
Preheat Cable Cover (recommended for use on most preheat applications)	204611	30 ft. (9.1 m)		
	204614	50 ft. (15.2 m)		
	204620	80 ft. (24.4 m)		
Preheat Insulation (for air-cooled cable use)	204669	1/2 x 6 x 120 in. (1.3 x 15 x 305 cm)		
	195376	1/2 x 6 x 240 in. (1.3 x 15 x 305 cm)		
	211474	1/2 x 12 x 120 in. (1.3 x 31 x 305 cm)		
	301334	Preheat insulation with cable harness, 1/2 x 16 x 120 in. (1.3 x 41 x 305 cm)		
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	18 in. (46 cm) 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, 1 TC type K, 25 ft. (7.6 m) armored		
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:

