

# ProHeat™ 35

## Air-Cooled Induction System

### Quick Specs

#### Applications

Process piping  
Refinery  
Petrochemical  
Cross country pipeline  
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.

#### ProHeat induction blanket shown with replaceable Kevlar® sleeve.



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.

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



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).

**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, 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.



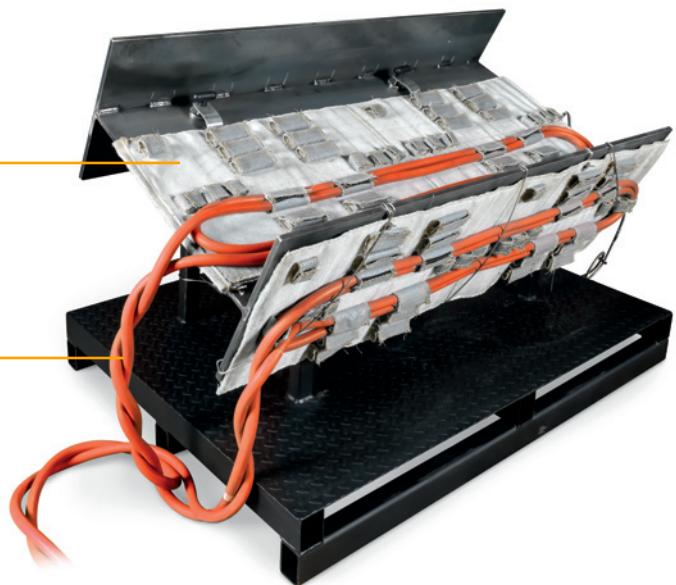
## Air-Cooled Cable

**301453030** 30 ft. (9.1 m)

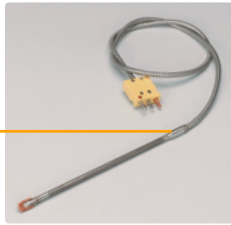
**301453050** 50 ft. (15.2 m)

**301453080** 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.



# ProHeat™ 35 Air-Cooled Induction System (Continued)



**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.



**Thermocouple Extension 200201**

An armored, 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



**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.



**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.



**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.



**Preheat Insulation**

**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)  
For preheat applications up to 600 degrees Fahrenheit (316°C). Designed to protect the air-cooled cable from high temperatures and maintain the optimum coupling distance between the coil and the work. The preheat insulation is 1/2-inch thick and can be cut to length to fit your application. See ordering information on the back page for available sizes.



**Thermocouple Extension Cable**

**194968** 50 ft. (15.2 m)  
**300998** 75 ft. (22.9 m)

A simple means of providing thermocouple inputs from the heated part to the power source. The durable cable eliminates the cluttered stringing of individual wires to the work. The terminal connection enables six thermocouples to be used with the system.



**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 Storage	Usage	Rated Output	Input Amperes at Rated Output	KVA/KW at Rated Output	Dimensions	Weight
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	
<b>ProHeat™ 35</b>	<b>907689</b> <b>907690</b>	460–575 V, 3-phase, 60 Hz, 35 kW power source, <b>CSA</b> 400–460 V, 3-phase, 50/60 Hz, 35 kW power source, <b>CE</b>			
Running Gear	<b>195436</b>	Attaches to bottom of power source			
Output Extension Cable	<b>195404</b> <b>195405</b> <b>300362</b>	25 ft. (7.6 m) 50 ft. (15.2 m) 75 ft. (22.9 m)			
Series Cable Adapter	<b>195437</b>	18 in. (46 cm) adapter for connecting two blankets in series configuration			
Induction Blankets (blankets are made to order and are <b>NOT</b> returnable)	Blanket w/Sleeve <b>300080</b> <b>300079</b> <b>300078</b> <b>300077</b> <b>300075</b> <b>300074</b> <b>300073</b> <b>300072</b> <b>300071</b> <b>300070</b> <b>300069</b> <b>300068</b> <b>300067</b> <b>300066</b> <b>300065</b> <b>300064</b> <b>300087</b> <b>300063</b> <b>300062</b> <b>300061</b> <b>300060</b> <b>224584</b> <b>300336</b> <b>301620</b> <b>301088</b>	Replacement Sleeve <b>195337</b> <b>195338</b> <b>194889</b> <b>194888</b> <b>194887</b> <b>194707</b> <b>198664</b> <b>198665</b> <b>194706</b> <b>198666</b> <b>198667</b> <b>198668</b> <b>194811</b> <b>194812</b> <b>194705</b> <b>194813</b> <b>194814</b> <b>198669</b> <b>194809</b> <b>198670</b> <b>200262</b> <b>217628</b> <b>261481</b> <b>288808</b> <b>261479</b>	For 8.625 in. (22 cm) pipe, 13.1 x 40 in. (33 cm x 102 cm) For 10.75 in. (27 cm) pipe, 11.3 x 44 in. (29 cm x 112 cm) For 12 in. (31 cm) pipe, 47 x 10.1 in. (119 cm x 26 cm) For 14 in. (36 cm) pipe, 53 x 10.1 in. (135 cm x 26 cm) For 16 in. (41 cm) pipe, 60 x 10.1 in. (152 cm x 26 cm) For 18 in. (46 cm) pipe, 66 x 9.0 in. (168 cm x 23 cm) For 20 in. (51 cm) pipe, 72 x 9.0 in. (183 cm x 23 cm) For 22 in. (56 cm) pipe, 78 x 9.0 in. (198 cm x 23 cm) For 24 in. (61 cm) pipe, 85 x 9.0 in. (216 cm x 23 cm) For 26 in. (66 cm) pipe, 91 x 9.0 in. (231 cm x 23 cm) For 28 in. (71 cm) pipe, 97 x 9.0 in. (246 cm x 23 cm) For 30 in. (76 cm) pipe, 104 x 9.0 in. (264 cm x 23 cm) For 32 in. (81 cm) pipe, 110 x 9.0 in. (279 cm x 23 cm) For 34 in. (86 cm) pipe, 116 x 9.0 in. (295 cm x 23 cm) For 36 in. (91 cm) pipe, 122 x 7.5 in. (310 cm x 19 cm) For 38 in. (97 cm) pipe, 129 x 7.5 in. (328 cm x 19 cm) For 40 in. (102 cm) pipe, 135 x 7.5 in. (343 cm x 19 cm) For 42 in. (107 cm) pipe, 141 x 7.5 in. (358 cm x 19 cm) For 46 in. (117 cm) pipe, 154 x 7.5 in. (391 cm x 19 cm) For 48 in. (122 cm) pipe, 160 x 7.5 in. (406 cm x 19 cm) For 52 in. (132 cm) pipe, 173 x 7.5 in. (439 cm x 19 cm) For 56 in. (142 cm) pipe, 185 x 7.5 in. (470 cm x 19 cm) For 60 in. (152 cm) pipe, 197 x 7.5 in. (500 cm x 19 cm) For 90 in. (228 cm) pipe, 312 x 7.5 in. (764 x 19 cm) Narrow, for 48 in. (122 cm) pipe, 160 x 4.5 in. (406 cm x 11 cm)		
Air-Cooled Cable	<b>301453030</b> <b>301453050</b> <b>301453080</b>	30 ft. (9.1 m) 50 ft. (15.2 m) 80 ft. (24.4 m)			
Preheat Cable Cover (recommended for use on most preheat applications)	<b>204611</b> <b>204614</b> <b>204620</b>	30 ft. (9.1 m) 50 ft. (15.2 m) 80 ft. (24.4 m)			
Preheat Insulation (for air-cooled cable use)	<b>204669</b> <b>195376</b> <b>211474</b> <b>301334</b>	1/2 x 6 x 120 in. (1.3 x 15 x 305 cm) 1/2 x 6 x 240 in. (1.3 x 15 x 305 cm) 1/2 x 12 x 120 in. (1.3 x 31 x 305 cm) Preheat insulation with cable harness, 1/2 x 16 x 120 in. (1.3 x 41 x 305 cm)			
High-Temperature Rope	<b>194965</b>	1 in. (2.5 cm) wide, 100 ft. (30.5 m) roll			
Contact Thermocouple Sensor (Probe)	<b>200202</b> <b>200201</b>	Contact thermocouple sensor. 500°F (260°C) max Armored 25 ft. (7.6 m) extension connects probe to power source			
Thermocouple Extension Cable	<b>194968</b> <b>300998</b>	50 ft. (15.2 m) type K TC extension, 6 pair, shielded 75 ft. (22.9 m) type K TC extension, 6 pair, shielded			
Remote Contactor Control	<b>043932</b>	25 ft. (7.6 m) wired remote on/off for power source			
RHC-14 Remote Hand Control	<b>242211020</b> <b>242211100</b>	20 ft. (6 m) wired remote for heat and on/off for power source 100 ft. (30.5 m) wired remote for heat and on/off for power source			

Date:

Total Quoted Price:

Distributed by:

