

# ProHeat™ 35

## Air-Cooled Induction System

Issued December 2024 • Index No. IN/14.0 EN

Induction  
Heating System 

### Quick Specs



#### Applications

Process piping  
Refinery  
Petrochemical  
Cross country pipeline  
Power piping  
Pressure vessels  
Structural  
Shipbuilding

#### Maximum Preheat Temperature

204°C

#### Input Power

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: 699 mm  
W: 552 mm  
D: 933 mm

#### Power Source Weight

Net: 103 kg Ship: 120 kg

## Powering a heating revolution – for preheat applications up to 204°C.

The ProHeat™ 35 air-cooled induction heating system is specifically designed for preheating applications up to 204°C. Air-cooled blankets are available for pipe diameters from 20-152 cm or in case of plate, available lengths are 1-5 m. Air-cooled cables are available in lengths of 9.1 m, 15.2 m or 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 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

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.*



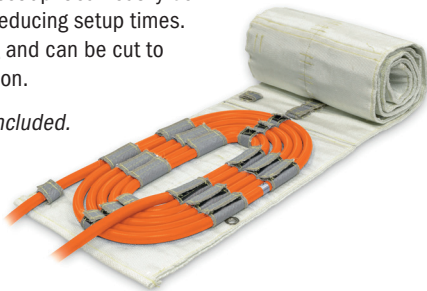
### Running Gear 195436

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 3 m long and can be cut to length to fit your application.

*Note: Heating cable not included.*



### Air-Cooled Cable

- 301453030 9.1 m
- 301453050 15.2 m
- 301453080 24.4 m

Air-cooled cables may be the right choice when the maximum preheat temperature is 204°C and the part is an irregular, non-standard shape that needs flexibility of wrapping the part.

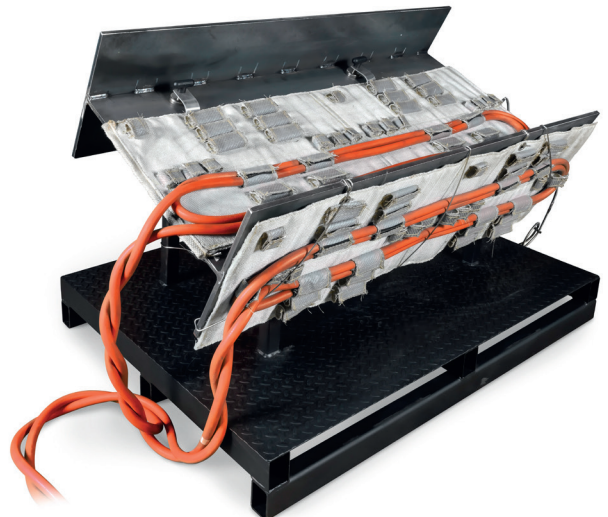


### Output Extension Cable

- 195404 7.6 m
- 195405 15.2 m
- 300362 -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.



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



### 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°C maximum.



### Thermocouple Extension 200201

An armored, 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 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.



### 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** 9.1 m  
**204614** 15.2 m  
**204620** 24.4 m

Used in preheat applications to protect the heating cable from slag and molten metal created during welding. The 13 mm thick preheat insulation must be used with the preheat cable covers.



### Preheat Insulation

**204669** 1.3 x 15 x 305 cm  
**195376** 1.3 x 15 x 305 cm  
**211474** 1.3 x 31 x 305 cm

For preheat applications up to 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 13 mm 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** 15.2 m  
**300998** 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 7.6 m cable.

### RHC-14 Remote Hand Control

**242211020** 6 m  
**242211100** 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	Dimensions H/W/D	Net Weight
	Storage	Usage				
400-460 V, 3-phase, 50/60 Hz, CE	-40°C to 55°C	-15°C to 55°C	35 kW at 100% duty cycle	60 A, 400 V 50 A, 460 V	H: 699 mm W: 552 mm D: 933 mm	Net: 103 kg Ship: 120 kg

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

# Ordering Information

Equipment and Accessories	Stock No.	Description	Qty.	Price	
ProHeat™ 35	<b>907690</b>	A400-460 V, 3-phase, 50/60 Hz, 35 kW power source, CE			
Running Gear	<b>195436</b>	Attaches to bottom of power source			
Output Extension Cable	<b>195404</b> <b>195405</b> <b>300362</b>	7.6 m 15.2 m 22.9 m			
Series Cable Adapter	<b>195437</b>	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 22 cm pipe, 33 cm x 102 cm For 27 cm pipe, 29 cm x 112 cm For 31 cm pipe, 119 cm x 26 cm For 36 cm pipe, 135 cm x 26 cm For 41 cm pipe, 152 cm x 26 cm For 46 cm pipe, 168 cm x 23 cm For 51 cm pipe, 183 cm x 23 cm For 56 cm pipe, 198 cm x 23 cm For 61 cm pipe, 216 cm x 23 cm For 66 cm pipe, 231 cm x 23 cm For 71 cm pipe, 246 cm x 23 cm For 76 cm pipe, 264 cm x 23 cm For 81 cm pipe, 279 cm x 23 cm For 86 cm pipe, 295 cm x 23 cm For 91 cm pipe, 310 cm x 19 cm For 97 cm pipe, 328 cm x 19 cm For 102 cm pipe, 343 cm x 19 cm For 107 cm pipe, 358 cm x 19 cm For 117 cm pipe, 391 cm x 19 cm For 122 cm pipe, 406 cm x 19 cm For 132 cm pipe, 439 cm x 19 cm For 142 cm pipe, 470 cm x 19 cm For 152 cm pipe, 500 cm x 19 cm For 228 cm pipe, 764 cm x 19 cm Narrow, for 122 cm pipe, 406 cm x 11 cm		
Air-Cooled Cable	<b>301453030</b> <b>301453050</b> <b>301453080</b>	9.1 m 15.2 m 24.4 m			
Preheat Cable Cover (recommended for use on most preheat applications)	<b>204611</b> <b>204614</b> <b>204620</b>	9.1 m 15.2 m 24.4 m			
Preheat Insulation (for air-cooled cable use)	<b>204669</b> <b>195376</b> <b>211474</b> <b>301334</b>	1.3 x 15 x 305 cm 1.3 x 15 x 305 cm 1.3 x 31 x 305 cm Preheat insulation with cable harness, 1.3 x 41 x 305 cm			
High-Temperature Rope	<b>194965</b>	2.5 cm wide, 30.5 m roll			
Contact Thermocouple Sensor (Probe)	<b>200202</b> <b>200201</b>	Contact thermocouple sensor. 260°C max Armored 7.6 m extension connects probe to power source			
Thermocouple Extension Cable	<b>194968</b> <b>300998</b>	15.2 m type KTC extension, 6 pair, shielded 22.9 m) type KTC extension, 6 pair, shielded			
Remote Contactor Control	<b>043932</b>	7.6 m wired remote on/off for power source			
RHC-14 Remote Hand Control	<b>242211020</b> <b>242211100</b>	6 m wired remote for heat and on/off for power source 30.5 m wired remote for heat and on/off for power source			

Date:

Total Quoted Price:

Miller recommends  consumables

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