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Induction **SSSS**

ArcReach[®] Heater **Air-Cooled Induction System**

Ouick Specs

CE

Applications **Process** Refineries

Oil and gas

Petrochemical

Power plants

Shipyards

Structural

Induction heating

Maximum Preheat and Bakeout Temperature 600°F (315°C)

Input Power Operates on open-circuit voltage: 50-70 volts

Output Current 200 amps Output Voltage 300 volts Source Current 33 amps Output Frequency 5–30 kHz **Rated Output** 7.8 kW at 100% duty cycle

ArcReach Heater Dimensions

Heating System

H: 18.6 in. (472 mm) W: 11.2 in. (285 mm) D: 26.7 in. (678 mm)

Weight

Net: 43 lb. (20 kg)

Take charge of your field preheat and bakeout applications up to 600 degrees Fahrenheit (315°C).



As part of the ArcReach technology platform, the heater is an accessory for select ArcReach welding power sources.

The induction heating tools (air-cooled cables or air-cooled quick wraps) connect to the ArcReach Heater, which is powered by select on-site welding power sources.



ArcReach Heater systems allow economical, insourced weld preheating and bakeout

With ArcReach Heater systems you can:

- · Eliminate the costly overruns common with heating contractors
- Eliminate delays due to transitions between heating and welding crews
- · Run your own schedule without depending on third-party contractors
- Use existing on-site welding equipment up to 200 feet away as the heating power source
- Lower preheating and bakeout costs
- · Automatically and accurately document joint temperatures
- · Eliminate safety concerns caused by traditional resistance and open-flame heating

The ArcReach Heater air-cooled induction heating system is specifically designed for preheating and bakeout applications up to 600 degrees Fahrenheit (315°C), without the need for a cooler and coolant. Preheat and bakeout programs can be manually entered or loaded via USB drive. Heating data is automatically recorded and can be used in guality control and documentation needs.

The air-cooled cables and quick wraps are manufactured from durable high-temperature materials, and designed to withstand the tough conditions in both industrial and construction applications.



ArcReach Heater is warrantied for one year, parts and labor. Accessories are warrantied for 90 days, parts only.



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Induction benefits

Easy setup with flexibility to fit a variety of pipe diameters, plates or odd geometries.

Time-to-temperature is faster than conventional processes due to the method of applying heat, reducing cycle time.

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.

Improved working environment during welding. Welders are not exposed to open flames, explosive gases and hot elements associated with fuel gas heating and resistance heating.

ArcReach[®] Heater System

Air-Cooled Cable Configuration

Shown with cable covers and preheat insulation.

Air-cooled cables are available in lengths of 30, 50 or 80 feet (9.1, 15.2 or 24.4 m). Designed with flexibility and efficiency in mind, the cables can be wrapped into coils of various shapes and sizes to fit almost any induction preheat or bakeout application (flat plate, pipe, odd geometries).

Compatible ArcReach power sources include:

- XMT[®] 350 FieldPro[™]
- XMT[®] 350 FieldPro[™]
- with Polarity Reversing ■ PipeWorx 350 FieldPro[™]
- Trailblazer® 325
- Big Blue[®] 400 Pro
- Big Blue[®] 400 PipePro[®]
- Big Blue[®] 500 Pro
- Big Blue[®] 600 Pro
- Big Blue[®] 600 Air Pak[™]
- Big Blue[®] 800 Duo Pro
- Big Blue[®] 800 Duo Air Pak[™]

Air-Cooled Quick Wrap Configuration

Air-cooled quick wraps provide a fast and easy way to wrap a pipe joint up to 10-inch (25.4 cm) diameter for preheat or bakeout. Simply place around the pipe, connect the ends, and cinch the clip as close to the pipe as possible.



💋 Miller.

ArcReach[®] Heater System Components and Accessories



ArcReach Heater 301390 CSA model 301591 CE model

The ArcReach Heater is equipped with built-in temperature control allowing for either manual or computer-loaded programming using up to six thermocouples. The ArcReach Heater can run either one or two heating tools (air-cooled cable or air-cooled quick wrap) at the same time. Requires ArcReach Heater extension cable to operate.

Note: Weld cables are not included.



ArcReach Heater Extension Cable 301451 10 ft. (3 m)

Air-cooled cables or quick wraps connect to the side of the box. Up to six thermocouple sensors connect to the yellow panel, and provide temperature feedback from the piece that is being heated.



Air-Cooled Quick Wrap 301452

The quick wrap works on pipe up to 10-inch (25.4 cm) diameter, and can heat up to a maximum of 600 degrees Fahrenheit (315°C). Requires preheat insulation for temperatures over 392 degrees Fahrenheit (200°C) to protect the tool. Most joints will require two air-cooled quick wraps to be used simultaneously — one on each side of the joint.



Air-Cooled Cable 301453030 30 ft. (9.1 m) 301453050 50 ft. (15.2 m) 301453080 80 ft. (24.4 m)

Air-cooled cables are ideal for wrapping various pipe diameters, flat plate and irregular, non-standard shapes requiring a flexible and uniform heating solution. Use with preheat cable covers to help protect from abrasion and weld spatter. Requires preheat insulation for temperatures over 302 degrees Fahrenheit (150°C) to protect the tool.



Series Cable Adapter 195437 18 in. (46 cm) Used to connect two air-cooled cables together in series to extend length and create extra heating area.



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 abrasion and weld spatter. *Note: Cable cover does not provide insulation benefits*



Preheat Insulation

204669 $1/2 \ge 6 \ge 120$ in. $(1.3 \ge 15 \ge 305$ cm) **195376** $1/2 \ge 6 \ge 240$ in. $(1.3 \ge 15 \ge 305$ cm) **211474** $1/2 \ge 6 \ge 240$ in. $(1.3 \ge 15 \ge 305$ cm) For preheat applications up to 600 degrees Fahrenheit (315°C). Designed to protect the air-cooled quick wraps and cables from high temperatures, and maintain the optimum coupling distance between the cables or wraps and the pipe. The preheat insulation is 1/2-inch thick and can be cut to length to fit your application.



Preheat Insulation with Cable Harness

301334 $1/2 \times 16 \times 120$ in. $(1.3 \times 41 \times 305$ cm) 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.*

High-Temperature Rope 194965

1-inch (2.5 cm) wide, 50-foot (15.2 m) roll.



Contact Thermocouple Sensor (Probe) 301517

Contact thermocouple sensor is placed on the part being heated and provides temperature feedback to the power source. For preheat only, 600 degrees Fahrenheit (315°C) maximum.



Temperature Measurement (welded on) 194999 Thermocouple wire, 500 ft. (152 m) 195098 Thermocouple connectors (10 pack) 194959 Thermocouple attachment unit (not shown)

Thermocouples welded directly on the part being heated are the most accurate way of monitoring part temperature for recording and controlling the heating process.



Specifications (Subject to change without notice.)

Input Power	Ambient Temperatur Storage	re Range Usage	Rated Output	Dimensions	Net Weight
Operates on open-circuit voltage: 50–70 V	-4-131°F (-20-55°C)	14-104°F (-10-40°C)	7.8 kW at 100% duty cycle	H: 18.6 in (472 mm) W: 11.2 in (285 mm) D: 26.7 in (678 mm)	43 lb. (20 kg) CSA 50.5 lb. (23.4 kg) CE

() Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

(C) Manufactured and certified in accordance with IEC-60974-1, -10.

Ordering Information

Equipment and Accessories	Stock No.	Description	Qty.	Price
ArcReach [®] Heater Packages	951848 951849	Includes ArcReach Heater and extension cable Includes ArcReach Heater, extension cable and two air-cooled quick wraps Requires extension cable to operate. Included in packages above, CSA Requires extension cable to operate. Not available as a package, CE		
ArcReach® Heater Only	301390 301591			
ArcReach [®] Heater Extension Cable Only	301451	10 ft. (3 m)		
Air-Cooled Quick Wrap Requires preheat insulation for temperatures over 392°F (200°C).	301452	For up to 10 in. (25.4 cm) diameter pipes		
Air-Cooled Cable Requires preheat insulation for temperatures over 302°F (150°C).	301453030 301453050 301453080	30 ft. (9.1 m) 50 ft. (15.2 m) 80 ft. (24.4 m)		
Series Cable Adapter	195437	18 in. (46 cm). For connecting two air-cooled cables in series		
Cable Cover Recommended for use on most preheat applications	204611 204614 204620	30 ft. (9.1 m) 50 ft. (15.2 m) 80 ft. (24.4 m)		
Preheat Insulation	204669 195376 211474	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	301334	1/2 x 16 x 120 in. (1.3 x 41 x 305 cm)		
High-Temperature Rope	194965	1 in. (2.5 cm) wide, 50 ft. (15.2 m) roll		
Contact Thermocouple Sensor (Probe)	301517	For use up to 600°F (315°C) maximum		
Thermocouple Wire	194999	Type K thermocouple wire, 500 ft. (152 m)		
Thermocouple Connectors	195098	Type K, 2-pin male (package of 10)		
Thermocouple Attachment Unit	194959	Used for welding thermocouples to part being heated		

Date:

Total Quoted Price:



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