


ArcReach® Heater

Air-Cooled Induction System

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Induction
Heating System 

Quick Specs



Applications

Refineries
Oil and gas
Petrochemical
Power plants
Shipyards
Structural

Process

Induction heating

Maximum Preheat Temperature

315°C

Input Power

Operates on open-circuit voltage:
50-70 V

Output Current 200 A

Output Voltage 300 V

Source Current 33 A

Output Frequency 5-30 kHz

Rated Output

7.8 kW at 100% duty cycle

ArcReach Heater Dimensions

H: 472 mm

W: 285 mm

D: 678 mm

Weight

Net: 20 kg

Take charge of your field preheat and bake-out applications up to 315°C.

NEW!

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.



Air-cooled cable



Air-cooled quick wrap



ArcReach Heater systems allow economical, insourced weld preheating

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 60 m away as the heating power source
- Lower preheating costs
- Automatically and accurately document joint temperatures
- Eliminate safety concerns caused by traditional open-flame heating

The ArcReach Heater air-cooled induction heating system is specifically designed for preheating and bake-out applications up to 315°C, without the need for a cooler and coolant. Temperature control programs can be manually entered or loaded via USB drive. Heating data is automatically recorded and can be saved for use in quality 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.

Induction benefits

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.

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.



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



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ArcReach® Heater System

Air-Cooled Cable Configuration

Shown with cable covers and preheat insulation.

Air-cooled cables are available in lengths of 9, 15 or 24 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 preheating application.



- Compatible ArcReach power sources include:**
- XMT® 350 FieldPro™
 - XMT® 350 FieldPro™ with Polarity Reversing
 - Big Blue® 400X Pro

Air-Cooled Quick Wrap Configuration

Air-cooled quick wraps provide a fast and easy way to wrap a pipe joint for preheating. Simply place around the pipe, connect the ends, and cinch the clip as close to the pipe as possible. Quick wraps fit pipe diameters from 25.4 to 3.8 cm.



Up to six contact thermocouple sensors (probes) can be inserted into the extension cable for temperature feedback to the power source.



Up to two heating tools can be connected to the extension cable.



ArcReach® Heater System Components and Accessories



ArcReach Heater 301591

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.
Note: Weld cables are not included.



Air-Cooled Cable

- 301453030** 9 m
- 301453050** 15 m
- 301453080** 24 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 150°C to protect the tool.



Preheat Insulation with Cable Harness

- 301334** 1.3 x 41 x 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 3 m long and can be cut to length to fit your application.
Note: Heating cable not included.

High-Temperature Rope 1949651

- 2.5 cm wide, 15.2 m roll



ArcReach Heater Extension Cable

- 301451** 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.



Series Cable Adapter

- 195437** 46 cm

Used to connect two air-cooled cables together in series to extend length and create extra heating area.



Contact Thermocouple Sensor (Probe)

- 301517**

Contact thermocouple sensor is laced on the part being heated and provides temperature feedback to the power source. For preheat only, 315°C maximum.



Air-Cooled Quick Wrap

The quick wrap works on pipe with outside diameter of 25.4 to 3.8 cm, and can heat up to a maximum of 315°C. Requires preheat insulation for temperatures over 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.



Preheat Cable Cover

- 204611** 9 m
- 204614** 15 m
- 204620** 24 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** 1.3 x 15 x 305 cm
- 195376** 1.3 x 15 x 610 cm
- 211474** 1.3 x 31 x 305 cm

For preheat applications up to 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 1.3 cm thick and can be cut to length to fit your application.



Temperature Measurement

- 194999** Thermocouple wire, 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.)

ArcReach® Heater

Input Power	Ambient Temperature Range		Rated Output	Dimensions H/W/D	Net Weight
	Storage	Usage			
Operates on open-circuit voltage: 50-70 V	-20°C - 55°C	-10°C - 40°C	7.8 kW at 100% duty cycle	472 / 285 / 678 mm	20 kg

Ordering Information

Equipment and Accessories	Stock No.	Description	Qty.	Price
ArcReach® Heater	301591	ArcReach® Heater Only		
ArcReach® Heater Extension Cable Only	301451	3 m		
Air-Cooled Quick Wrap <i>Requires preheat insulation for temperatures over 200°C.</i>	301452	For 25.4 - 3.8 cm diameter pipes.		
Air-Cooled Cable <i>Requires preheat insulation for temperatures over 150°C.</i>	301453030 301453050 301453080	9 m 15 m 24 m		
Series Cable Adapter	195437	46 cm. For connecting two air-cooled cables in series		
Preheat Cable Cover <i>Recommended for use on most preheat applications</i>	204611 204614 204620	9 m 15 m 24 m		
Preheat Insulation	204669 195376 211474	1.3 x 15 x 305 cm 1.3 x 15 x 610 cm 1.3 x 31 x 305 cm		
Preheat Insulation with Cable Harness	301334	1.3 x 41 x 305 cm		
High-Temperature Rope	194965	2.5 cm wide, 15.2 m roll		
Contact Thermocouple Sensor (Probe)	301517	For use up to 315°C maximum		
Thermocouple Wire	194999	Type K thermocouple wire, 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:

Miller recommends **Elega** consumables

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