Cool-Arc™ 40

The Cool-Arc™ 40 is a reliable and affordable water cooler for water-cooled MIG or TIG as well as plasma cutting applications. Available in both 115 and 230 volt models, the Cool-Arc 40 is compatible with all Lincoln water-cooled systems including Cobramatic®. The Cool-Arc 40 features a rugged industrial pump manufactured by Pro-Con®, the leading pump manufacturer for welding water coolers. This pump is an industry standard, making the Cool-Arc 40 easy to service and maintain. The Cool-Arc 40 operates smoothly and minimizes vibrations that would otherwise be transferred to the welding torch.

**Processes**

<table>
<thead>
<tr>
<th>TIG</th>
<th>MIG</th>
<th>PAC (Plasma Arc Cutting)</th>
<th>PAW (Plasma Arc Welding)</th>
</tr>
</thead>
</table>

**Advantage Lincoln**

- Industry standard Pro-Con® internal water pump is easy to service and maintain and is designed for continuous operation, delivering a steady flow and pressure.
- Powerful “muffin-style” tube axial fan provides efficient cooling, low noise, and smooth operation to minimize vibration in the welding torch.
- Plastic, non-corrosive, 2-gallon reservoir limits loaded Cool-Arc 40 weight to 60 lbs.
- Unit can be mounted and operated either horizontally or vertically for minimal footprint.
- Compatible with all Lincoln water-cooled systems including Cobramatic water-cooled push-pull torches.
- Color-coded inlet and outlet coolant connections are standard female CGA-style (5/8-18 left-hand thread).
- No special coolant required for indoor use - uses tap water.
- CE (Europe) and C-Tick (Australia) compliant (K2187-1 only).

**Recommended General Options**

Horizontal Mounting Bracket, Vertical Mounting Bracket, Quick Connect Water Adapter, Water Cooler Hoses (CGA to QD), Water Cooler Hoses (CGA to CGA), Magnum® Flow Sensor, Pro-Torch™ Water-Cooled TIG Torches, Water Cooler Coolant

**Order**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Model Number</th>
<th>Input Power</th>
<th>Pump Hydraulic Rating</th>
<th>Reservoir gal. (lt)</th>
<th>Input Current</th>
<th>Dimensions H x W x D inches (mm)</th>
<th>Net Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool-Arc™ 40</td>
<td>K1813-1</td>
<td>115/1/50/60</td>
<td>60 PSIG (4.14 bar)</td>
<td>2</td>
<td>60 Hz: 3.2A</td>
<td>34 x 9 x 9 (863 x 229 x 229)</td>
<td>Empty: 45 (20.4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>53-57 PSIG (3.85-3.93 bar)</td>
<td></td>
<td>50 Hz: 4.0A</td>
<td></td>
<td>Full: 61.2 (27.7)</td>
</tr>
<tr>
<td>Cool-Arc™ 40</td>
<td>K2187-1</td>
<td>220-240/1/50/60</td>
<td>1.66 gal/min (6.2 lt/min)</td>
<td>2 (7.57)</td>
<td>60 Hz: 1.5A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.45-60 gal/min (1.78-2.27 lt/min)</td>
<td></td>
<td>50 Hz: 2.2A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: K1813-1 includes a male, three prong, NEMA Type 5-15P plug. K2187-1 includes a two prong Continental European (Schuko) plug.
A CLOSER LOOK

COOLANT REQUIREMENTS

- For Use Above Freezing:
  Clean tap, distilled or deionized water.

- For Use Below Freezing:
  50% pure ethylene glycol mixture, 50% water.

- Important Application Note:
  - The Cool-Arc 40 is designed for continuous operation and should never be installed in conjunction with a water solenoid. Therefore, if using the Cool-Arc 40 in a previous Magnum 10 or 20 application, the water solenoid on the power source should not be used.
  - Do not use oil based coolants.
  - Do not use automotive antifreeze with rust or leak inhibitors.

RECOMMENDED OPTIONS

GENERAL OPTIONS

Horizontal Mounting Bracket
For mounting cooler horizontally on top of the power source. For use with CV-305, CV-400, CV-655, DC-400, DC-600, DC-655. Order K559-2

Vertical Mounting Bracket
For mounting cooler vertically in the cylinder rack. For use with CV-305 with K874 undercarriage, and Power Wave 455 with K1570-1 undercarriage. Order K559-3

Magnum® Flow Sensor
Protects valuable torches, guns and robotic welding systems from damage when loss of coolant flow has occurred for any reason, such as a blocked or kinked water line or ruptured hose. Order K1536-1

Quick Connect Water Adapter
Converts a male 5/8"-18 left hand hose fitting (CGA style) to a female quick connect fitting. The female quick connect mates with the male quick connect on water-cooled MIG guns or hoses. Order KP1529-1

Water Cooler Hoses
(CGA to CGA)
For use with wire feeders having female disconnect fittings. Kit contains two 25 ft. hoses with 5/8" left hand CGA fittings on both ends of hose. Order K1859-2

Water Cooler Hoses
(CGA to QD)
For 5/8" LH CGA fitting applications at both cooler and wire feeder. Kit contains two 25 ft. hoses with 5/8" left hand CGA fittings on cooler side and male quick disconnect fittings on the feeder end. Order K1859-1

Magnum 450WC Water-Cooled MIG and Gas-Shielded Flux-Cored Gun & Cable Assembly
Extend the life of your gas diffusers, nozzles and contact tips. Rated up to 450 amps, 100% duty cycle when used with 100% CO₂. Requires K489-x Adapter Kit depending on wire feeder brand and model. Order K684-x.
Request Publication E12.70

Python Water-Cooled Push-Pull MIG Gun & Cable Assembly
Interchangeable barrels and cups allow you to optimize the capabilities, cost and weight of your Python push-pull torch for each application. Rated up to 400 amps, 100% duty cycle with optional water-cooled barrel (KP2224-1) and Cup (KP2225-1). Order K2212-x.
Request Publication E12.13

Pro-Torch™ Water-Cooled TIG Torches
Lightweight with ergonomically designed handles and superflex cables. Rugged and reliable for high performance welding applications. Request Publication E12.150

Customer Assistance Policy

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