## Additional Cryo-Torr Accessories Available from Brooks Automation

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8080250K023</td>
<td>Purge Gas Solenoid Valve Kit, 110V</td>
</tr>
<tr>
<td>8080250K020</td>
<td>Purge Gas Heater Kit, 110V</td>
</tr>
<tr>
<td>8080250K022</td>
<td>Roughing Valve Kit, 110V</td>
</tr>
<tr>
<td>8080250K008</td>
<td>Exhaust Adapter Kit</td>
</tr>
<tr>
<td>80434590001</td>
<td>Temperature Indicator</td>
</tr>
<tr>
<td>8080250K017</td>
<td>Purge Gas Solenoid Valve Kit, 230V</td>
</tr>
<tr>
<td>8080250K036</td>
<td>Purge Gas Heater Kit, 230V</td>
</tr>
<tr>
<td>8080250K037</td>
<td>Roughing Valve Kit, 230V</td>
</tr>
</tbody>
</table>

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## Cryo-Torr® 20HP with Temperature Sensor Quick Installation Guide

Part Number 8040706, Revision A, 01/11/2013  
ECO Number 63723

### Cryo-Torr 20HP Cryopump Facility Requirements

<table>
<thead>
<tr>
<th>Electrical Power</th>
<th>Nitrogen Purge Gas</th>
<th>Roughing Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditioned power supplied from helium compressor</td>
<td>3/8 inch VCO tube connection (Parker Ultrasel No. 6)</td>
<td>NW-40 ISO KF flange</td>
</tr>
</tbody>
</table>

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800-367-4887 USA  
978-262-2400 International
Before You Start

1. Ensure 8600 Compressors are installed according to 8040705, Cryo-Torr 8600 Compressor Quick Installation Guide and 8040707, Cryo-Torr 8600 Compressor Operation, Installation, and Maintenance Manual.
2. Read and follow all safety notices in this guide and in the appropriate compressor guides.

Cryopump Safety

Ensure the cryopump operates safely and dependably by adhering to all safety notices when you use or service the cryopump.

**WARNING**

1. To prevent personal injury, over pressurization, and equipment damage, always vent toxic, corrosive, or flammable materials to a safe location using an inert gas.
2. Clearly identify toxic, corrosive, or flammable materials on shipping containers when you ship equipment that contacted these materials.
3. To prevent flammable gas ignition, do not install a hot filament type vacuum gauge on the high vacuum side of the isolation valve.
4. To prevent explosions, be aware of ozone as a by-product of an oxygen process, and take the appropriate precautions.

**CAUTION**

Heavy Object

To avoid injury when moving the cryopump, use a lifting aid and proper lifting techniques.

**CAUTION**

High Pressure Gas Hazard

To avoid injury from unexpectedly propelled objects, always bleed the helium charge to atmospheric pressure before servicing or disassembling the self-sealing couplings.

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**NOTE:**

To avoid loss of helium, do not modify or remove the pressure relief valves.

Always connect and disconnect helium flex lines with the method illustrated in Figure 1 Inset B.

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Cryopump Connections

See the following numbered steps in Figure 1 for cryopump installation connections.

**NOTE:**

Before mounting the cryopump to the vacuum system, ensure a high-vacuum isolation (hi-vac) valve is installed between the cryopump and the vacuum chamber. This isolates the cryopump from the chamber during rough pumping, cooldown, and regeneration.

**NOTE:**

Install the cryopump in any orientation. This does not affect its performance.

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Startup the Cryopump

See the 8040613, Cryo-Torr High-Vacuum Pump Installation, Operation, and Maintenance Instructions, for details.

Product Information and Technical Support

Please visit the Brooks Automation website at www.brooks.com or email to tscallcenter@brooks.com.