Impella 5.0® System

The Impella heart pump is an intravascular microaxial blood pump that delivers up to 5.0 L/min of forward flow blood from the left ventricle to the aorta.

- The Impella catheter is an intravascular microaxial blood pump that supports a patient's circulatory system.
- Inlet directly unloads the left ventricle reducing ventricular work.
- World's smallest heart pump provides peak flow rate up to 5.0 L/min*

*For additional information about flow rates see the Instructions For Use manual.

Impella 5.0® Heart Pump Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average peak flow</td>
<td>5.0 L/min</td>
</tr>
<tr>
<td>Peak flow rate up to</td>
<td>4.2 – 5.3 L/min</td>
</tr>
<tr>
<td>Speed range</td>
<td>10,000 – 33,000 rpm</td>
</tr>
<tr>
<td>Diameter</td>
<td>9 Fr Catheter, 21 Fr pump, 6 Fr pigtail</td>
</tr>
<tr>
<td>Interventional length</td>
<td>92-98cm</td>
</tr>
<tr>
<td>Cannula</td>
<td>Polyurethane coated nitinol with a 145-degree angle</td>
</tr>
<tr>
<td>Position sensor</td>
<td>Open pressure port proximal to motor housing for pressure measurement to guide position</td>
</tr>
<tr>
<td>Catheter shaft</td>
<td>Polyurethane catheter with nitinol backbone and triple internal lumens for pressure, purge and electrical signal</td>
</tr>
<tr>
<td>Red Impella plug</td>
<td>Connections - 1 luer connection for purge field</td>
</tr>
<tr>
<td></td>
<td>1 electrical connection to patient cable</td>
</tr>
<tr>
<td></td>
<td>Electronics - Pressure transducer to measure placement signal, electronic memory for retention of operating parameters</td>
</tr>
<tr>
<td>Repositioning unit</td>
<td>Graduated Shaft from 11 Fr to 15 Fr with StatLock® compatible suture pads and anticontamination sleeve.</td>
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</tbody>
</table>

*For additional information about flow rates see the Instructions For Use manual.
**Impella 5.0 Kit**
Part number: 005062
- Impella Catheter
- Purge Cassette (0043-0001)
- Axillary Insertion Kit (0052-0011)
- 0.018", 260cm placement guidewire (0052-3005)
- White Connector Cable (0042-0002)
- White Silicone Plugs (0046-3028) image not shown

**Automated Impella Controller**
Part number: 0042-0000-US
The controller provides an interface for monitoring and controlling the function of all Impella catheters.
- 10.4" color display for easy viewing
- Mounts to Controller Cart (not shown) for transport within hospital
- 60 minutes of battery back up power for mobile transport

**Axillary Insertion Kit**
Part number: 0052-0011
Vascular access kit used for insertion of the Impella catheter.
- 23 Fr x 6 cm Peel-away introducer with hemostatic valve
- 8 Fr Silicone-coated dilator
- 2 Graft locks

**Purge Cassette**
Single Package: 0043-0002
5 Package: 0043-0003
The purge cassette delivers rinsing fluid to the Impella catheter. The purge fluid flows from the purge cassette through the catheter to the microaxial blood pump to prevent blood from entering the motor.

**A. White Connector Cable**
Part number: 0042-0002
The white connector cable connects the Impella catheter to the automated Impella controller.
- The socket at the gray end of the cable connects to the Impella catheter plug.
- The white plug at the opposite end of the cable is inserted into the blue catheter plug on the front of the automated Impella controller.

**B. 0.018", 260cm Placement Guidewire**
Part number: 0052-3005
Guidewire with a radiopaque, shapable tip used for placement of Impella catheter into the left ventricle.