Agilent Microplate Centrifuge

Introduction

The Agilent Microplate Centrifuge is a small robot-accessible automated centrifuge. It also provides both vibration and noise control in a small, low-maintenance package. Ideal for high or medium-throughput applications. The Microplate Centrifuge is capable of rapid acceleration and deceleration (a customizable setting), minimizing the required cycle time. It is excellent for filtration protocols, air bubble removal in high-density microplates and spin-downs including cells and cellular debris. A solid and efficient design allows Microplate Centrifuge units to be stacked to save space. The door design allows for access to the buckets by a range of articulated robots, for high-throughput applications. For robots that cannot reach through the door, the Automated Centrifuge Loader allows unobstructed accessibility. With a three-second loading time and robust motion control, the Automated Centrifuge Loader can be accessed by most laboratory microplate handlers/robots.

Applications

1. Filtration protocols for PCR purification
2. Cell harvesting for plasmid preps
3. Condensate spin-down for post-PCR processes
4. Removal of air bubbles in high-density plates
Features & Benefits

- **Compact Footprint:** The Agilent Microplate Centrifuge takes up very little bench space, and fits easily in integrated systems.

- **Accessibility:** With the Automated Centrifuge Loader, the Microplate Centrifuge can be integrated with many robotic systems.

- **Stackable Design:** Multiple Microplate Centrifuge units can be stacked on each other, increasing the system throughput without adding to the footprint.

Additional Information

**Workstations**

Automated Spin-down Station
BenchCel Microplate Handling System with Microplate Centrifuge and Automated Centrifuge Loader

When batches of microplates need to be spun down at one time, this spin-down station is a good choice. The Microplate Centrifuge integrates easily with the BenchCel Microplate Handler providing walkaway convenience. A simple software interface allows users to specify the centrifugation settings and with the click of the mouse, the BenchCel Platform and Microplate Centrifuge take care of the rest.

**Optional Microplate Loader**

Automated Centrifuge Loader load sequence begins with automated door opening, microplate being lifted by Automated Centrifuge Loader to facilitate robotic microplate hand-off, and placement into one of two internal centrifuge microplate carriers.
Specifications

**Top Speed/g:** 3000 RPM/1000 g

**Maximum Payload (per bucket):**
250 g [8.8 oz]

**Acceleration / Deceleration:** 7.5 sec
0–3000 RPM

**Maximum Imbalance:** 10 g [0.35 oz]

**Capacity:** Two microplates or tube racks

**Labware Compatibility Microplates:** All ANSI-compliant standard microplates including deep well microplates, PCR microplates, and tube racks.

**Maximum Microplate Height:**
4.83 cm [1.90 in]

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Operating Requirements

**Electrical:**
100–240 VAC, 50/60 Hz,
Operating AC Current 7A/120V or 3.5A/240V (typical), Inrush Current 20A/120V or 40A/240V (typical)

**Air:**
28 Lpm at 5.5 bar [< 1 cfm at 80 psi]

**Environment:**
4–40 °C

**Controller:**
PC with Windows 2000, XP or other VWorks Compatible Operating System

**Interface:**
RS-232 serial port with a DB9 pin connector

**Certification:**
CE certified

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Dimensions

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<thead>
<tr>
<th>Microplate Centrifuge</th>
<th>Agilent Microplate Centrifuge with Automated Centrifuge Loader</th>
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</thead>
<tbody>
<tr>
<td>Height: 20.6 cm [8.1 in]</td>
<td>Height: 24.8 cm [9.8 in]</td>
</tr>
<tr>
<td>Width: 32.8 cm [12.9 in]</td>
<td>Width: 32.8 cm [12.9 in]</td>
</tr>
<tr>
<td>Depth: 45.7 cm [18 in]</td>
<td>Depth: 71.4 cm [28.1 in]</td>
</tr>
<tr>
<td>Weight: 26 kg [58 lb]</td>
<td>Weight: 35 kg [76 lb]</td>
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<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>G5405A/G</td>
<td>Agilent Microplate Centrifuge</td>
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