

# Agilent BioTek BioSpa 8 Automated Incubator

## Technical details

General	
Microplate Types	6- to 1536-well standard-height microplates, with or without lids. Plate height range: 7.6 to 25.4 mm
Other Labware Supported	Cell culture dishes (60 and 35 mm)
Lidded Plate Handling	Robotic arm moves plate to and from BioSpa 8 and connected instrument; handles de-lidding and re-lidding plates.
Microplate Capacity	Up to eight microplates (or other labware)
Air Filter	User-replaceable HEPA filter
Compatible Agilent BioTek Instruments	Cytation C10 confocal imaging reader (confocal and widefield), Cytation 7, 5, and 1 cell imaging multimode readers, Synergy Neo2 hybrid multimode reader, Synergy H1 multimode reader, Epoch 2 microplate spectrophotometer, EL406 washer dispenser, 405 TS and 405 LS washers, MultiFlo FX multimode dispenser
Interfacing Capacity	One or two devices: reader/imager only, washer/dispenser only, or both
Software	Agilent BioTek BioSpa automated incubator software: <ul style="list-style-type: none"> <li>- Provides programming interface for Agilent BioTek detection and liquid handling devices</li> <li>- Allows user notification (text or email) of events and/or errors in the system</li> <li>- Provides control, monitoring, and logging of:               <ul style="list-style-type: none"> <li>- CO<sub>2</sub>/O<sub>2</sub></li> <li>- Incubator temperature</li> </ul> </li> <li>- Provides humidity level monitoring and logging</li> <li>- Allows long-term uninterrupted runs</li> </ul>
CO <sub>2</sub> and O <sub>2</sub> Control (Option)	Range: 0–20% (CO <sub>2</sub> ); 1–19% (O <sub>2</sub> ) Control resolution: ± 0.1% (CO <sub>2</sub> and O <sub>2</sub> ) Stability: ± 0.2% at 5% CO <sub>2</sub> ; ± 0.2% at 1% O <sub>2</sub>
Temperature Control	Range: to 45 °C Control resolution: 0.1 °C Uniformity: ± 0.5 °C at 37 °C
Humidity (Option)	rH: 80 to 95% (lidded plates and 5% CO <sub>2</sub> ) Source: removable water pan Water level sensor: low water level alert
Recommended Computer System Requirements	<ul style="list-style-type: none"> <li>- Intel Pentium P4 processor or compatible/ 1.33 GHz</li> <li>- Windows 7, Windows 8.1 or Windows 10 Professional Editions</li> <li>- 2 GB of RAM</li> <li>- Designed for XGA Resolution 1080 x 860</li> <li>- 10 GB of available Hard Drive space</li> <li>- Keyboard and mouse; USB ports</li> <li>- Microsoft Internet Explorer v 9.0 or higher (for online Help)</li> <li>- Agilent BioTek Liquid Handling Control (LHC) software v 2.19 or higher for washer or dispenser integration</li> <li>- Agilent BioTek Gen5 microplate reader and imager software v 2.09 or higher for reader or imager integration</li> </ul>
Physical Characteristics	
Dimensions	With standard base pan extension: 29.5" L x 22" W x 19" H (75 x 55 x 48 cm)
Weight	< 85 lb (39 kg) (without shipping components and an empty water pan)



**Figure 1.** Agilent BioTek BioSpa 8 incubator integrates to an Agilent BioTek Cytation 5 cell imaging multimode reader.

## Configurations

Part Number	Description
BIOSPA	Automated incubator with eight-plate capacity, incubation to 45 °C. Includes BioSpa software and one alignment kit.
BIOSPAG	Automated incubator with eight-plate capacity, incubation to 45 °C, and CO <sub>2</sub> /O <sub>2</sub> control and monitoring, water pan, and humidity monitoring. Includes BioSpa software and one alignment kit.

*BioSpa 8 can integrate to one washer or dispenser, one imager or reader, or two instruments for complete, unattended workflow automation.*



**Figure 2.** Agilent BioTek BioSpa 8 incubator integrates to an Agilent BioTek MultiFlo FX multimode dispenser (left) and an Agilent BioTek Cytation 5 cell imaging multimode reader (right).