

# Agilent BenchCel Workstations

## Microplate Sealing Solution

### Application Bulletin



#### Applications

(Appropriate seal material required)

1. Compound storage
2. Screening
3. PCR/qPCR/rtPCR
4. Sequencing

#### Microplate sealing with confidence

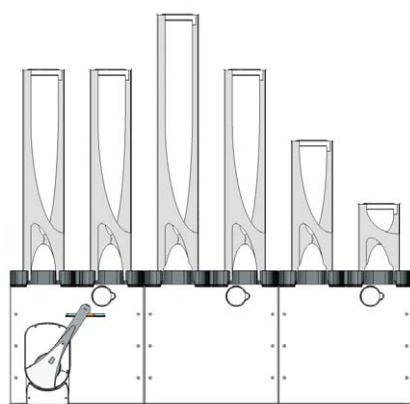
Agilent Automation Solutions integrates a wide range of instruments with the BenchCel Microplate Handler to create flexible benchtop automation solutions. An Automated Microplate Sealing Workstation can be created using two Agilent instruments: the BenchCel Microplate Handler and the Agilent PlateLoc Thermal Microplate Sealer. An optional second device can be integrated to further increase throughput and utility. Ask your Agilent technical sales professional for datasheets on the BenchCel Microplate Handler and the PlateLoc Thermal Microplate Sealer or visit [www.agilent.com](http://www.agilent.com).

#### Features and Benefits

- **Capacity of up to 64 plates per rack** (BenchCel Microplate Handler in 2, 4, or 6 rack configurations — up to 320 microplates)
- **Easy to operate.** Fully automated microplate sealing via host PC or touch screen on PlateLoc Thermal Microplate Sealer for single microplate manual operation
- **High precision.** Seal temperature control of +2°C and advance seal slitting control — ensures seal integrity will be the same for every microplate; cuts to size of microplate; no overhang to get caught in racks
- **Fast cycle times.** Seals 3 microplates/min and no required cool down periods, provides high throughput and less waiting

#### Flexibility

Automatically adjusting for shallow and deep well plates, PCR plates, and tube racks, the PlateLoc Thermal Microplate Sealer can handle all of your sealing needs. Four types of plate stage inserts provide maximum support for even the most difficult plate types.



*BenchCel Microplate Handlers available in 2, 4, and 6 rack configurations*



**Agilent Technologies**

## Specifications

### System Features

**High Speed:** 3 microplates/minute

**Scalable System:** Integrate to various Agilent and 3rd party devices

**Storage Options:** Workstation can be configured with BenchCels featuring 2-, 4- or 6-stacks (labware racks). 6-stack BenchCel can accommodate up to 320 standard microplates.

### Labware Compatibility

**Microplates:** ANSI compatible microplates including deep well plates and PCR plates in 96-, 384-, and 1536-well formats

**Tipboxes:** BenchCel is capable of also handling all Agilent tipboxes as well as other stackable 3rd party tipboxes.

**Microplate Material Types:** Microplate heat seal available for sealing polypropylene and/or polystyrene microplates

### Operating Requirements

**Electrical:** 100-240 VAC, 50/60 Hz, AC Current (typical) 11A/120V 5.5A/240V, Inrush Current (typical) 20A/120V 40A/240V

**Air:** ≤ 98 LPM at 11.7 bar [≤ 3.5 cfm at 90 psi]

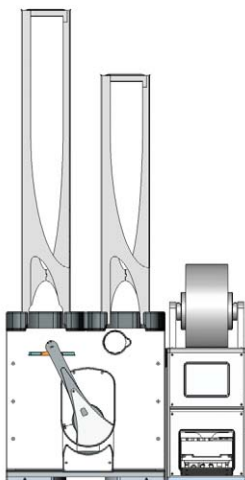
**Software:** This Workstation includes ActiveX device drivers for both the Agilent BenchCel and Agilent PlateLoc as well as Agilent VWorks Automation Control software to operate the Workstation.

**Controller:** Includes PC and VWorks Automation Control software. VWorks runs under Windows XP or Vista.

**Interface:** 10BaseT Ethernet port (BenchCel); RS-232 serial port with DB 9 connector (PlateLoc)

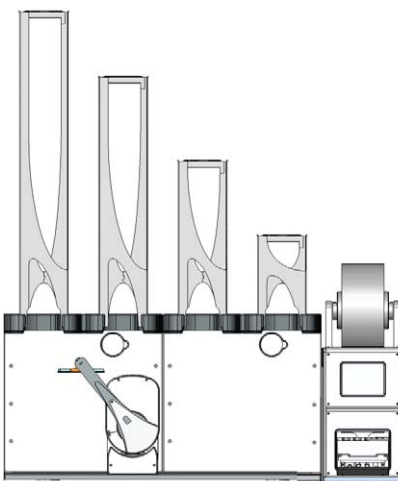
**Certification:** Instruments are CE certified

## Dimensions



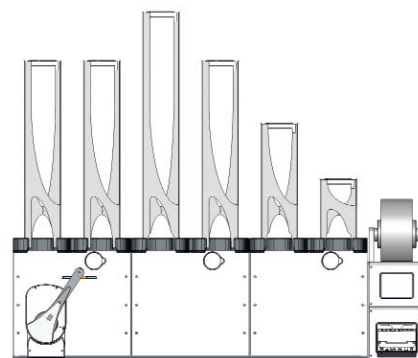
### 2R Base Unit

Height: 58.4 cm [23.0"]  
Width: 64.6 cm [25.5"]  
Depth: 39.9 cm [15.7"]  
Weight: 41.8 kg [93 lbs]



### 4R Base Unit

Height: 58.4 cm [23.0"]  
Width: 107.6 cm [33.5"]  
Depth: 39.9 cm [15.7"]  
Weight: 48.1 kg [100 lbs]



### 6R Base Unit

Height: 58.4 cm [23.0"]  
Width: 151.6 cm [59.5"]  
Depth: 39.9 cm [15.7"]  
Weight: 42.7 kg [117 lbs]

## Seal Materials

Agilent offers both aluminum and clear seals for a variety of applications. Visit Agilent's website at [www.agilent.com](http://www.agilent.com) and look for the Seal Selection Guide in the Agilent PlateLoc product section.

[www.agilent.com/lifesciences/automation](http://www.agilent.com/lifesciences/automation)

This item is intended for Research Use Only. Not for use in diagnostic procedures. Information, descriptions, and specifications in this publication are subject to change without notice.

Agilent Technologies shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Windows and Windows Vista are registered trademarks of Microsoft Corporation.

© Agilent Technologies, Inc. 2009  
Published in the U.S.A. February 25, 2009  
5990-3631EN



**Agilent Technologies**