

BD Rhapsody™ Express Single-Cell Analysis System Site Preparation Guide

Doc ID: 75750 Rev. 2.0
08/2018



Becton, Dickinson and Company
BD Biosciences
2350 Qume Drive
San Jose, CA 95131
USA
Tel 1.877.232.8995, prompt 2, 2
researchapplications@bd.com

Copyrights/trademarks

Trademarks are the property of their respective owners.

© 2018 BD. BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company.

The information in this guide is subject to change without notice. BD Biosciences reserves the right to change its products and services at any time to incorporate the latest technological developments. Although this guide has been prepared with every precaution to ensure accuracy, BD Biosciences assumes no liability for any errors or omissions, nor for any damages resulting from the application or use of this information. BD Biosciences welcomes customer input on corrections and suggestions for improvement.

Regulatory information

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Patents

The BD Rhapsody™ Targeted mRNA and AbSeq Reagent Kit is covered by one or more of the following U.S. patents: 8835358, 9315857, 9290808, 9290809, 9567646, and 9598736.

Revision history

Revision	Date	Change made
Doc ID: 75750 Rev. 1.0	02/2018	Initial release
Doc ID: 75750 Rev. 2.0	08/2018	—Changed the name of “BD Rhapsody™ Sample Loading Station” to “BD Rhapsody™ Express instrument.” —Updated cross-references to “ <i>BD Rhapsody™ Express Single-Cell Analysis System Instrument User Guide</i> (Doc ID: 214063).”

Contents

Chapter 1: Introduction	5
About this guide	6
Physical characteristics	7
Equipment moving policy	8
Safety	8
Chapter 2: Site requirements	11
Space and clearance requirements	12
Structural requirements	14
Environmental requirements	15
Power requirements	16
Chapter 3: Checklist	17

This page intentionally left blank

1

Introduction

About this guide

Purpose

This guide is intended for BD Rhapsody™ users. Read this guide prior to installation of the system to ensure that all site requirements are met.

For intended use of the BD Rhapsody™ Express Single-Cell Analysis system, see the *BD Rhapsody™ Express Single-Cell Analysis System Instrument User Guide* (Doc ID: 214063).

Use the *BD Rhapsody™ Express Single-Cell Analysis System Site Preparation Guide* to obtain information on:

- Dimensions of the BD Rhapsody™ Express instrument
- Preparation of the site

Genomics technical publications are available for download from the BD Genomics Resource Library at bd.com/genomics-resources.

Physical characteristics

Introduction This topic describes the physical dimensions and weight of the BD Rhapsody Express instrument and its accessories.

Dimensions and weight of the BD Rhapsody Express instrument

Item	Dimensions (W x D x H)	Weight (kg)
Boxed BD Rhapsody Express instrument	40.0 x 45.5 x 33.0 cm (15.7 x 17.9 x 13.0 in.)	9.5 (20.9 lb)
Unboxed BD Rhapsody Express instrument	25.3 x 34.1 x 20.5 cm (9.96 x 13.4 x 8.07 in.)	5.5 (12.1 lb)

Equipment moving policy

Introduction This topic describes the BD Biosciences policy for moving the BD Rhapsody Express instrument.

General policy Contact BD Biosciences to arrange installation, relocation, and removal of the Express instrument.

Contact information researchapplications@bd.com

Safety

Restrictions Any use of the BD Rhapsody Express Single-Cell Analysis system other than the procedures described in the user guides might result in damage to the instrument, loss of reagents or samples, or personal injury.

BD denies any responsibility for damage caused by the following:

- Any use of a BD Rhapsody™ instrument that does not comply with the procedures described in its user guide.
 - Unauthorized alterations or adjustments to the instrument hardware.
 - Any use of an instrument that violates locally applicable laws, rules, or regulations.
 - Evidence of any deviation from intended use voids the BD Rhapsody instrument warranty.
-

Disclaimer

The instruments, external components, software, and consumables in the BD Rhapsody Express Single-Cell Analysis system are provided for research purposes only. BD disclaims all express and implied warranties including, but not limited to, merchantability and fitness for use for a particular purpose.

Customer safety requirements

Prior to installation or service of a BD Rhapsody instrument, the customer should contact the security or safety department to advise the department of the service visit by a BD field application specialist (FAS) or field service engineer (FSE). Before the service visit, the customer should inform the FSE or FAS of the need to complete any induction or security vetting.

For more information on safety, see the *BD Rhapsody™ Express instrument Safety and Limitations Guide* (Doc ID: 76918).

This page intentionally left blank

2

Site requirements

Space and clearance requirements

Introduction This topic describes the laboratory space needed for the BD Rhapsody™ Express instrument and accessories.

Required workspaces in the laboratory

Dedicate two isolated workspaces in the laboratory to run high-sensitivity, single cell sequencing experiments:

- Pre-amplification workspace
- Post-amplification workspace

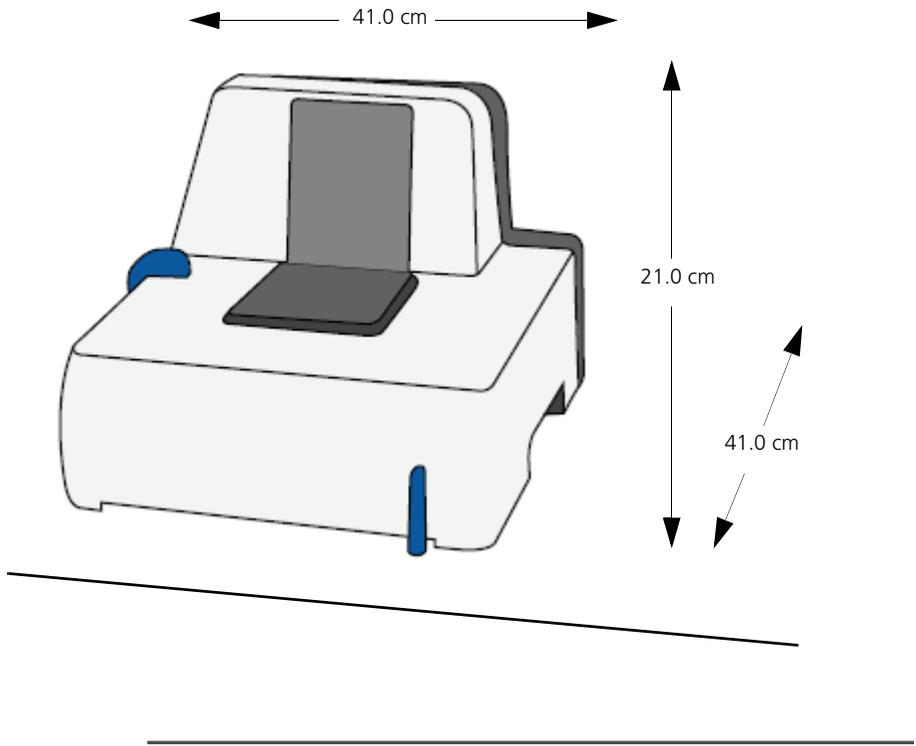
For detailed information on laboratory workspace use, see the *BD Rhapsody™ Express Single-Cell Analysis System Instrument User Guide* (Doc ID: 214063).

Required workspace for instruments

The following table provides information on workspace dimensions for the BD Rhapsody Express instrument:

Components	Width (cm)	Depth (cm)	Height (cm)
BD Rhapsody Express instrument	41.0 (16 in.)	41.0 (16 in.)	21.0 (8.3 in.)

The following drawing shows workspace clearance for the BD Rhapsody Express instrument:



Structural requirements

Introduction	This topic describes the specific structural features that must be present at the site.
Structure for the BD Rhapsody Express instrument and accessories	<ul style="list-style-type: none">• Stable surface free of vibrations• No external air, water, or vacuum lines required
Lighting for the BD Rhapsody Express instrument	None
Waste disposal for the BD Rhapsody Express instrument	Set up appropriate waste disposal facilities according to good laboratory practices.
(Optional) Communications for the BD Rhapsody Express instrument	A telephone in proximity to the BD Rhapsody Express instrument to communicate with BD Biosciences technical support regarding system operation and function.

Environmental requirements

Introduction

This topic describes the environmental conditions necessary for the BD Rhapsody Express instrument to operate optimally.

Requirements for the BD Rhapsody Express instrument

Condition	Requirement
Temperature	The BD Rhapsody Express instrument has an operating range between 15°C (59°F) and 30°C (86°F).
Humidity	No special requirements. Follow good laboratory practices.
Heat dissipation	No special requirements. Follow good laboratory practices.
Ventilation	No special requirements. Follow good laboratory practices.
Noise	No special requirements. Follow good laboratory practices.

Power requirements

Introduction

The BD Rhapsody Express instrument does not require power.

3

Checklist

Checklist

Use this checklist to confirm that the site meets necessary requirements:

Checklist items	Acceptable (Y, N, N/A)
Required	
Temperature between 15°C (59°F) and 30°C (86°F)	
Humidity between 5% and 95% (non-condensing)	
Appropriate waste disposal solutions are in place	
Dedicated pre-amplification and post-amplification workspaces in the laboratory	
Bench space for BD Rhapsody™ Express instrument with clearance: (W x D x H) 41 x 41 x 21 cm (16 x 16 x 8.3 in.)	
Customer requires that all visiting BD personnel complete site training	
Customer provides a contact for installation inquiries to BD personnel	
Optional	
Recommended bench height of 75 cm (29.5 in.)	
A LAN line or mobile telephone is available at the instrument installation site	

Notes

This page intentionally left blank