

## Technical Specifications

### BD FACSCanto™ II High Throughput Sampler Option Innovation with Impact



## Introduction

The new BD™ High Throughput Sampler (HTS) provides fully automated and rapid sample acquisition. It is designed to speed through a microtiter plate in 15 minutes\* with sample carryover of 1% or less†. The BD HTS installs onto the new BD FACSCanto II flow cytometer within a few hours, making it a fully modular system. It supports standard 96-well U-, V-, and flat-bottom, and 384-well flat-bottom plates.

Fast acquisition speed is achieved by synchronizing two high-precision pumps for sample mixing, sample injection, and probe washing‡. You can choose a standard throughput mode to allow for acquisition of larger sample volumes. All sampler functions are operated through BD FACSDiva™ software, allowing you to create customized delivery protocols with user-defined mixing, wash, and analysis parameters.

For more information about the BD FACSCanto II High Throughput Sampler option or other quality products from BD Biosciences, please contact your local sales representative or call one of the locations listed on the back.

## Physical Characteristics

Requires 10 inches (25 cm) of table space in front of the instrument

### Size

9.5 x 8 x 14 inches (W x D x H)  
24 x 20 x 36 cm

### Weight

23 lb (10.4 kg)

### Environmental conditions

60.8-86° F  
16-30° C  
20-80% relative humidity

### Power

100-240VAC

## Fluidics

### Plate/tube compatibility

The HTS option allows conversion between tubes and plates in seconds.

### Sampling modes

High-throughput (HT)  
Standard throughput (STD)  
Sample introduction can be temporarily switched to manual mode for loading tubes.

### Sampling volume (range)

2-10 uL in HT mode  
2-200 uL in STD mode

### Total aspirated volume

22 uL in HT mode  
22-220 uL in STD mode

### Cleaning cycles

Automated cleaning protocols

### Sheath, waste, and cleaning reservoirs

The HTS integrates into the BD FACSCanto II fluidics cart

### Recommended sheath solution

BD FACS™ sheath solution with surfactant (Cat. No. 346524; Europe 336911)

## BD Biosciences

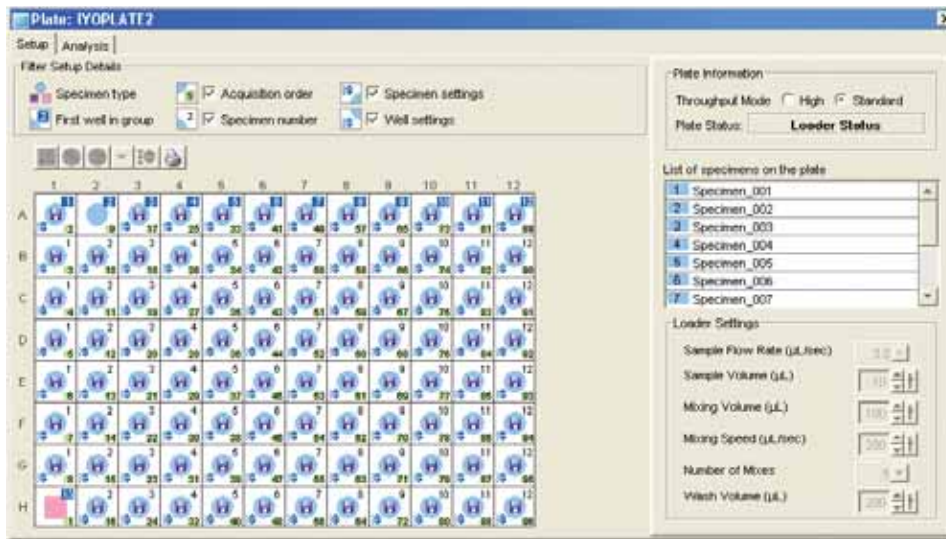
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## Performance

### Throughput

- <15 min in HT mode using a 2 sec acquisition
- <44 min in STD mode using a 10 sec acquisition

### Carryover†

<1%

### User-adjustable settings

- Sample rate 0.5 to 3.0 uL/sec
- Samples of each well are mixed prior to acquisition
- Mixing volume 5-100 uL
- Mixing speed 25-250 uL/sec
- Number of mixes 0-5
- Probe wash volume 200-800 uL
- Sample volume 2-10 uL in HD mode
- Sample volume 2-200 uL in STD mode

## Computer Compatibility

### Compatible software

BD FACSDiva software version 5.0 or higher

### Compatible computer

BD PC workstation (RAM 2GB)  
Windows® XP (SP2)

### Data management

Integrated with BD FACSDiva version 5.0 software

Keyword display in BD FACSDiva software

Compatible with Waters® NuGenesis® SDMS (optional)

## Compatible BD Falcon™ Microtiter Plates

- 96-well U bottom (Cat. No. 353910)
- 96-well V bottom (Cat. No. 353263)
- 96-well flat bottom (Cat. No. 353915)
- 384-well flat bottom (Cat. No. 353233)

### Regulatory certifications

UL, CE, CSA

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## Service Support

Depot repair service (where available)



\* Based on a 2-sec acquisition in HT mode

† In high-throughput mode

‡ Carryover based on testing performed with beads. Other sample types may require optimization of HTS parameters.

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