

# Biotage® Horizon 5000

## Specifications and Ordering Information



### Dimensions (W x D x H)

- » 19 x 19 5/8 x 21 in.
- » 48.3 x 49.9 x 53.3 cm

### Weight

61.7 lbs. (28.0 kg)

### Bench Space

Each instance of software can operate up to four extractor modules. At least one inch between each extractor is recommended. A counter depth of 30 inches is preferable but at least 24 inches is required. The table on which the system sits must accommodate the combined weight of the Extractor Modules and the Controller PC.

### Gas (Optional)

A clean, dry regulated source of nitrogen can be used to blanket the sample during extraction, reducing oxidation. The source can be either a tank and regulator, or house nitrogen. The pressure must be a minimum of 60 PSI and a maximum of 80 PSI. 1/8-inch male NPT fittings are supplied with the optional kit (P/N 50-0484), which will adapt to most nitrogen regulators. The connection also can be made using a customer-supplied 1/8-inch Swage-type fitting.

### Ventilation

Based on the solvents to be used, each laboratory must decide to operate either on the benchtop or in a fume hood. An exhaust kit (P/N 49-5006-01) is required if the system will be operated on a bench. It is not required if system will be placed in a fume hood.

### Electrical Requirements

- » Line Voltage 100–240 VAC (to power supply)
- » Line Frequency 50–60 Hz
- » Maximum Power 300 Watts

Uses an IEC type connector to accept various international power cords.

### SPE Disks

Customer-provided SPE disks and prefilters are required. Atlantic® and Pacific® disks, 47 mm, 50 mm, or 90 mm disks and prefilters from Horizon Technology are strongly recommended.

### Solvent Capability

Solvents are required to condition and elute the SPE disks. Typically, methylene chloride, ethyl acetate, hexane, methanol, acetone, reagent water, etc., are required, depending on the method specified.

### Waste Containers

Two waste containers are required and provided with the initial purchase. The waste containers can be any chemically compatible container or carboy. The water waste container needs to be of a sufficient volume to contain the volume of water waste that will be generated. Both containers need to be located lower than the equipment. Due to the weight of the water waste container, it is advisable for this to be placed on the floor.

### Environmental

- » Ambient Temperature: 17–28 °C
- » Ambient Humidity: 10–70% relative humidity non-condensing
- » Indoor use only

### PC Parameters

- » Processor: (min.) 4th Generation Intel Core i3, or currently available equivalent, 32 or 64 bit
- » Operating System: Windows 7 Professional, 32 or 64 bit
- » Memory: 4 GB DDR (min)
- » Screen: 20" or greater HD LCD for Desktop; 15" or greater for Laptop
- » Graphics: Integrated
- » Hard Drive: (min.) 250 GB 5400 RPM SATA
- » Networking: Ethernet 100 Base T or greater
- » Sound: Required for Alerts
- » Software: Adobe Reader Available
- » USB: 2.0 Port

## Ordering Information

Part Number	Description
<b>SPE-DEX 5000</b>	One Biotage® Horizon 5000 Extractor Module, with three stations including three (3) Water Inlet Valves, one (1) kit, Solvent-Waste and Water-Waste Lines, one (1) 20-L waste container, one (1) solvent waste container, one (1) thermistor height tool, one (1) WIV wrench, one (1) hex wrench, one (1) Certificate of Final Test, CD with software and user manual, USB stick with software and manual, three (3) blue clamps, and a Start-up Kit

### Disk Holder. For every 5000 purchased, the user needs three (3) of the same style:

<b>50-1200-01</b>	47 mm Holder. Includes metal collar, 5000 riser, cup and support screen
<b>50-1200-02</b>	90 mm Holder. Includes metal collar, riser, cup, and support screen (used for Oil & Grease analysis)
<b>50-1200-03</b>	Fast Flow Disk Holder Assembly, 100 mm wide, uses standard 47-mm disks, Includes metal collar, riser, cup, and support screen

### Elution Vessel. For every 5000 purchased, the user needs three (3) of the same style:

<b>27-0476-01</b>	125-mL Erlenmeyer Flask with Stopper, 19/22 neck
<b>160-001-02</b>	VOA Vial Adapter, 19/22 neck
<b>03-5000-01</b>	250-mL Erlenmeyer Flask, 19/22 neck

### Solvent Lines. For every 5000 purchased, the user needs to choose one:

<b>49-5003</b>	Basic lines with sinkers, no bottles or bottle caps, seven lines and one vent included
<b>49-5001</b>	Lines with sinkers, bottles and 38/430 caps, seven lines and one vent included
<b>49-5002</b>	Lines with sinkers, bottles and GL-45 caps, seven lines and one vent included
<b>49-5006-01</b>	Optional Exhaust Kit, needed when the system is placed on the bench top to direct exhaust fumes to a safe location
<b>50-0484</b>	Optional nitrogen supply line to connect module to nitrogen source

Part Number	Description
<b>50-5040</b>	Optional nitrogen jumper line to connect more than one module to the same nitrogen source
<b>50-5012</b>	Optional Vapor Shield to reduce the possibility of cross contamination and allow a nitrogen blanket to be used
<b>63-2820-01</b>	Optional Hub to allow up to 3 additional Modules to be controlled from the same Controller PC and Software
<b>63-2566</b>	Optional Controller PC Laptop
<b>49-2794</b>	Optional One Pass Kit to allow the sample to pass through the disk and carbon cartridge one time to capture Acid/Base Neutral compounds rather than two passes with a pH change

### Useful Consumables

<b>31-0454</b>	Dirty Sample Fine Mesh Screen - Fits 47-mm Disk Holder Assembly
<b>31-0457</b>	Dirty Sample Fine Mesh Screen - Fits 90-mm Disk Holder Assembly
<b>49-0665</b>	Dirty Sample Fine Mesh Screen - 100 mm for use with 50-2767 disk holder
<b>FFAP-47-HT</b>	Atlantic Fast Flow Prefilter, 47 mm, coarse 5.0 µm (Pkg of 50)
<b>FFP-47-HT</b>	Pacific Oil & Grease Fast Flow Pre-filter 47 mm (Pkg of 50)
<b>FFP-90-HT</b>	Pacific Oil & Grease Fast Flow Pre-filter 100 mm (Pkg of 50)
<b>FFAP-100-HS1</b>	Atlantic Fast Flow Prefilter 100 mm Fine 1.0 µm (Pkg of 50) For use with 50-2767
<b>FFAP-100-HS5</b>	Atlantic Fast Flow Prefilter 100 mm Coarse 5.0 µm (Pkg of 50) For use with 50-2767
<b>49-2620-01</b>	Carbon Cartridge Max Detect 20CC, Kit 16 per pack
<b>49-2620</b>	Carbon Cartridge 20 CC, Kit 16 per pack

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