

Isolera™

Installation and Safety



Safety and Document Conventions

Isolera™ systems shall be unpacked and installed by an authorized Biotage service engineer. Please read this manual carefully before operating the Isolera system. All information is believed to be complete and accurate at the time of publication, but is subject to change.

The Isolera system should only be operated and maintained by trained individuals. Please read the "Isolera™ User Manual" (P/N 411829) carefully before working with the system. To guarantee safe and effective operation it is absolutely necessary to follow all of the instructions in the "Isolera™ User Manual".

Pay close attention to text with a NOTE or WARNING heading:

NOTE

Note text appears in the manual to provide additional or crucial information about the current topic. It may indicate a situation in which the system may not perform as expected unless specific guidelines are followed.

WARNING

The Warning note indicates a hazard that could result in serious injury to the user and/or damage to the equipment unless good laboratory practices and/or manufacturer's guidelines are followed.

Warranty and Liability

See the "Biotage Terms & Conditions of Sale" document at www.biotage.com.

Software License Agreement

Biotage Sweden AB licenses the Isolera software to you only upon the acceptance of all of the terms and conditions in the software license agreement. By using the software, you consent to be bound by and are becoming a party to that agreement.

If you do not agree to the terms of the software license agreement, the software may be returned for full refund, terminating the license as described in the agreement.

To read the software license agreement, either request a copy from your local Biotage representative before the installation or read it on your Isolera system:

1. Turn on the system using the power switch located underneath the touch screen.
2. Once the main menu appears, press **About** and then **Show Licenses**.

Download Isolera™ User Documentation

The following Isolera user documentation can be downloaded from the system:

- Isolera™ Installation and Safety (this publication), P/N 411828
- Isolera™ User Manual, P/N 411829
- Isolera™ Quick Guide, P/N 411830
- Isolera™ Safety Translations, P/N 412861
- Isolera™ Dalton Getting Started Guide, P/N 413457
- Isolera™ Dalton System Care Guide, P/N UI320

To download the user documentation from the system, connect a USB memory device to the USB port located underneath the touch screen, press **Help**, and then press **Export User Documentation**.

You can download the latest versions of the documents at www.biotage.com. If you have problems downloading, please contact your local Biotage representative.

Table of Contents

1: Installation	1-1
Delivered Items	1-2
Site Requirements	1-2
Moving an Isolera™ System	1-3
Connections	1-6
Rear Connections	1-6
Tube Connections	1-7
2: Safety	2-1
Overview	2-1
Intended Use	2-1
Education, Training, and Competence	2-1
Static Electricity	2-2
Download User Documentation	2-2
Warranty and Liability	2-3
Service	2-3
Safety Requirements	2-3
Installation	2-3
Operation	2-4
Power Supply and Fuses	2-4
Solvents and Waste	2-4
Lab Safety Procedures	2-4
Collection Arm	2-4
Ultraviolet Light	2-4
In Case of Leakage and Maintenance	2-4
External Tubing and Fittings	2-5
Labels Used on the System	2-5
WEEE Compliance Statement	2-6
Safely Starting Up and Shutting Down	2-6
Start Up the System	2-6
Pause and Resume a Purification Run	2-6
End or Abort a Purification Run	2-6
Orderly System Shutdown Procedure	2-7
System Components	2-8
3: Contact Information	3-1
Manufacturer	3-1
Biotage Sweden AB	3-1
Sales Offices and Distributors	3-1
Technical Support	3-1

Chapter 1

Installation

WARNING

The Isolera™ system shall be unpacked and installed by an authorized Biotage service engineer.

If an internal system leakage occurs, liquids are drained through drain ports underneath the system. The Isolera system must therefore be operated in a well-ventilated fume hood that has the capacity to handle leakage of potentially flammable liquids and that meets the requirements of a “non-hazardous area” with regards to potentially explosive atmosphere. If using an Isolera™ LS Funnel Rack Kit, a walk-in fume hood must be used. Note that the maximum leakage volume is determined by the size of the used solvent reservoirs and that the flow rate is determined by the used method (the flow rate can be set to a maximum of 100 ml/min when using an Isolera™ Prime system, 200 ml/min when using an Isolera™ One, Isolera™ Four, or Isolera™ Dalton System, and 500 ml/min when using an Isolera LS system).

You must observe all the safety requirements on page 2-3 and 2-5 when operating the Isolera system. Failure to use the system in a manner specified by Biotage may result in personal injury and/or equipment damage. If the system has been damaged or does not function properly, shut it down and contact Biotage® 1-Point Support™ immediately (www.biotage.com).

The total weight of the package including the Isolera system is 42-46 kg (93-102 lbs) depending on the system configuration. The weight of the Isolera™ Dalton Mass Detector and Isolera™ Dalton Nanolink packages (if ordered) are 50 kg (110 lbs) and 20 kg (44 lbs), respectively. Use suitable lifting equipment when moving the package. Follow generally accepted safety practices when handling and moving shipping boxes and containers.

The Isolera system weighs 30-35 kg (66-77 lbs) depending on the system configuration. Isolera Dalton Mass Detector and Isolera Dalton Nanolink (if ordered) weighs 32 kg (70.5 lbs) and 10 kg (22.5 lbs), respectively. Two persons are required when lifting the systems.

NOTE

It is strongly recommended that Biotage® Leak Detector is used with the Isolera system. Biotage Leak Detector is optional on Isolera Prime, Isolera One, and Isolera Four and standard on Isolera LS.

1.1 Delivered Items

NOTE

We recommend that the boxes and packing materials are kept by the customer in case the system needs to be returned for service or moved to another location.

The system's internal tubing is flushed with 80% ethanol in deionized water and then emptied before the system is shipped to the customer. Isolera Dalton Mass Detector and Isolera Dalton Nanolink (if ordered) are flushed with methanol.

Check the delivery against the shipping documentation to ensure that you have received everything. If any part of the order is missing or damaged, contact Biotage 1-Point Support (see page 3-1).

1.2 Site Requirements

NOTE

For the site requirements for Isolera Dalton System, see the "Isolera™ Dalton Getting Started Guide", P/N 413457.

Before the system is installed by an authorized Biotage service engineer, the installation site should be prepared as follows:

Environment	Location: A laboratory fume hood with capacity to handle leakage of solvents and provide suitable airflow to prevent the build-up of flammable vapors. If using an Isolera LS Funnel Rack Kit, a walk-in fume hood must be used. Temperature: 15°C to 32°C (59°F to 89.6°F) Humidity: 20% to 95% at room temperature External fire protection should be installed according to local regulations for equipment operating unattended.
Dimensions	Width: 355 mm (14") or, when using a system with two collection trays, 577 mm (22.7"); Depth: 497 mm (19.6"); Height: 596 mm (23.5") At least three centimeters (one inch) of space should be maintained between the system's rear panel and other objects to allow proper ventilation. If using an Isolera LS Funnel Rack Kit, the cart dimensions (W x D x H) are: 960 mm (37.8") x 660 mm (26.0") x 1060 mm (41.7").
Weights	30-35 kg (66-77 lbs) depending on system configuration If using an Isolera LS Funnel Rack Kit, the cart (excluding bottles) weighs approximately 40 kg (88 lbs).
Power	Input voltage: 100-240 VAC, 50/60 Hz Maximum power consumed: 200 VA

1.3 Moving an Isolera™ System

NOTE

Should you need to move the system within the laboratory or between laboratories in the same building, follow the instructions below.

If you are using Isolera Dalton System, see the “Isolera™ Dalton Getting Started Guide” (P/N 413457) for instructions on how to shut down the system, and disconnect, move and reconnect Isolera Dalton Mass Detector and Isolera Dalton Nanolink.

1. When the system is not processing, shut it down as described on page 2-7.
2. Unplug the power cord from the power outlet.
3. Disconnect any external equipment connected to the **LEAK DET.**, **ETHERNET**, **VGA**, **MOUSE** (only available on some systems), and/or **USB** ports at the rear of the system.
4. Disconnect the drain tube at the rear of the system; see Figure 1-4 on page 1-6.
5. Disconnect the waste outlet tubing; see “Tube Connections” on page 1-7.
6. Remove the racks and solvent bottles.
7. Carefully lift the Isolera system by the base plate and place it on a trolley. Two persons are needed.
8. Move the trolley and the rest of the equipment to the new location.
9. If using Biotage Leak Detector:
 - a. Place the leak tray in a well-ventilated fume hood or an equivalent enclosure that meets the site and safety requirements. Position the tray so that the leak detector is in the back right corner and the Isolera system will be in a position that allows access to the right side and the rear of the system; see Figure 1-1 below.
 - b. Carefully lift the Isolera system by the base plate and place it on the leak tray. Two persons are needed.
 - c. Connect the leak detector cable to the **LEAK DET.** port at the rear of the Isolera system.



Figure 1-1. Isolera One with Leak Detector

10. If not using Biotage Leak Detector, carefully lift the Isolera system by the base plate and place it in a well-ventilated fume hood or an equivalent enclosure that meets the site and safety requirements. Place it in a position that allows access to the right side and the rear of the system. Two persons are needed.
11. Connect the drain tube to the Drain port at the rear of the system; see Figure 1-4 on page 1-6. Insert the other end into a separate waste reservoir.
12. If you want to connect the system to your network, connect a shielded category 5 TP cable to the **ETHERNET** port.
13. If you want to connect an external screen, connect it to the **VGA** port at the rear of the system.

14. If you want to connect a mouse, connect it to one of the **USB** ports at the rear of the system. Note that some versions of the system have a **MOUSE** port and only one **USB** port.
15. If you want to connect a USB printer, connect it to one of the **USB** ports at the rear of the system.
16. If you want to connect an external detector to the system, see the "Change Detector Settings" section in the "Isolera™ User Manual" (P/N 411829).
17. Connect the system to a properly grounded (earthed) power outlet with the correct mains voltage and frequency (see the product label at the rear of the system) using the supplied power cord.
18. Ensure the cartridge holder(s) is/are in preferred position(s) at the right side of the system; see Figure 1-2 below.

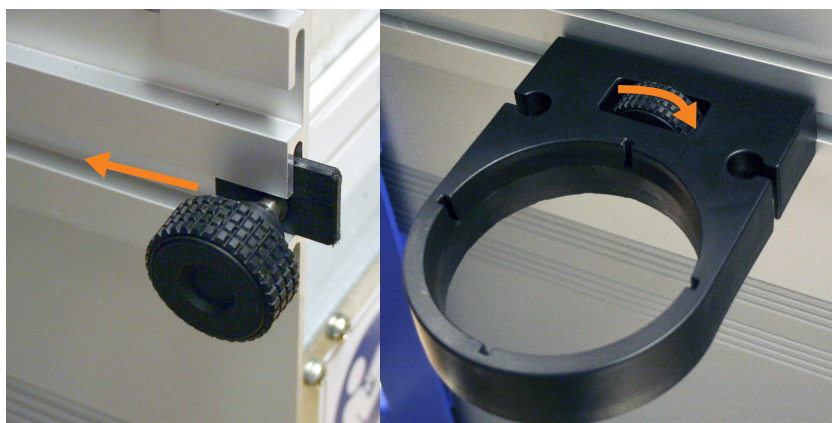


Figure 1-2. Mount the Supplied Cartridge Holder(s)

19. If the system is equipped with an **AIR** port at the right side of the system, ensure that the air filter is connected. If not, connect it (see Figure 1-3 below).

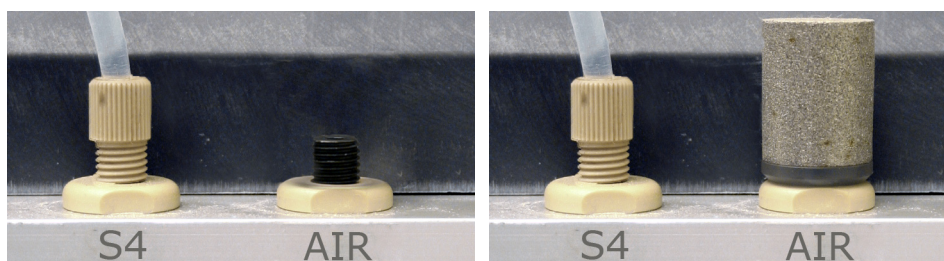


Figure 1-3. Connect the Air Filter

20. Connect the waste outlet tubing. Ensure that all tubing is connected according to Figure 1-5 on page 1-7. Use caution when tightening fittings to prevent stripped threads or crushed ferrules.

NOTE

Ensure that the tubes are assembled correctly. If the system has flangeless tubing, please notice that proper sealing will not occur unless the ferrule is oriented as shown below, with the tapered portion of the

ferrule facing toward the nut. The ferrule should be placed near the end of the tubing as shown below.



21. Carefully slide the system into a position where the operator can access the touch screen, cartridge holder(s), and collection area. At least three centimeters (one inch) of space should be maintained between the system's rear panel and other objects to allow proper ventilation.
22. Level the system by adjusting the height of the four feet.

WARNING

To avoid possible injury and equipment damage, keep your hands out of range of the collection arm while the homing routine runs in step 23 below.

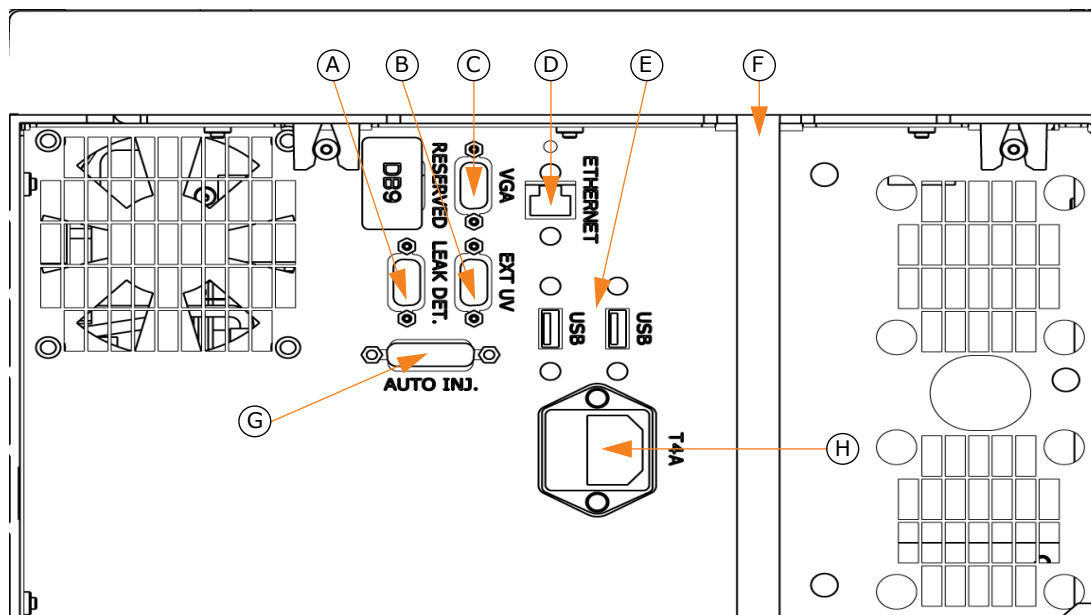
23. Turn on the system. The power switch is located underneath the touch screen.
24. To change system settings (change date and time for the system, enable Biotage Leak Detector (enabled by default on Isolera LS systems), enable an external detector, turn on the mouse pointer, configure a network connection, set up a printer with postscript support, etc), log into the System mode and refer to the instructions available in the online help:
 - a. In the main menu, press **System**.The **Select User** dialog opens.
 - b. Select a system owner account and press **OK**. The **Password** dialog opens.
 - c. Enter the password and press **OK**. If using the system owner account that was created at installation, enter the password "1234".
 - d. To open the online help, press **Help** in the right-hand panel.
25. To set up user accounts, log into the Data Administration mode and refer to the instructions available in the online help:
 - a. In the main menu, press **Data Administration**.The **Select User** dialog opens.
 - b. Select a system owner account and press **OK**. The **Password** dialog opens.
 - c. Enter the password and press **OK**.
 - d. To open the online help, press **Help** in the right-hand panel.
26. Once the system is operational, check all tubes and connections for leaks using the prime function (see the "Prime the System" section in the "Isolera™ User Manual", P/N 411829). Prime with water or another suitable solvent. If leakage is observed, pause the system (press the **Pause** button in the right-hand panel) and check for loose fittings or damaged tubing. To resume the prime, press **Resume** in the right-hand panel.

1.4 Connections

NOTE

For information about the connections on Isolera Dalton Detector and Isolera Dalton Nanolink, see the "Isolera™ Dalton Getting Started Guide", P/N 413457.

1.4.1 Rear Connections



- | | | | | | |
|---|------------------------|---|---------------|---|-----------------------|
| A | Leak Detector Port | D | Ethernet Port | G | Only Used for Service |
| B | External Detector Port | E | USB Ports | H | Power Inlet |
| C | VGA Port | F | Drain Port | | |

Figure 1-4. Rear Connections

1.4.2 Tube Connections

System Differences

An Isolera Four system is shown in the left image. The tube connections are the same for all Isolera systems except for the following differences:

- Isolera LS has a sample loading pump. Use it according to the instructions in the user manual.
- Isolera LS, Isolera Prime, and Isolera One only have one cartridge position ("C1") and one waste channel.
- On some systems, the solvent inlets are located at the top of the system. Isolera Prime only has two solvent inlets.

Connect the supplied waste outlet tube to the "W" port on the collection arm (Isolera LS) or to the tube labeled "W/FC" (Isolera Prime and Isolera One) and to a waste reservoir.

Connect the supplied solvent tubes to the inlets "S1"–"S4" and reservoirs

Connect the tube labeled "UV"

to the port labeled "To UV" or "UV"

Connect the tube labeled "W/FC"

to the port labeled "From FC" or "FC/W" (only Isolera Four)

Connect the supplied waste outlet tubing

to the waste ports "W1"–"W4" and reservoirs (only Isolera Four)



Figure 1-5. Tube Connections

Chapter 2

Safety

2.1 Overview

The Isolera system must be operated in a fume hood that has the capacity to handle leakage of solvents and provide suitable airflow to prevent the build-up of flammable vapors. The optimum operating temperature range for the Isolera system is 15°C to 32°C (59°F to 90°F). At least three centimeters (one inch) of space should be maintained between the system's rear panel and other objects to allow proper ventilation. Should a leakage or solvent spill occur, your laboratory must have local regulated processes in place to deal with these incidents in order to prevent the possibility of a fire or explosion hazard.

2.2 Intended Use

All Isolera systems from Biotage are intended solely to detect, fractionate, and analyze chemical mixtures using flash chromatography and electrospray ionization mass spectrometry and/or light absorbance.

The system must be operated in a laboratory environment by trained professionals. The system is not designed to be operated in a potentially explosive atmosphere. It is the responsibility of the customer to classify (zone) their particular environment in order to verify that it meets the requirements of a "non-hazardous area" with regards to potentially explosive atmosphere.

All operations must be performed:

- According to the user documentation delivered with the system.
- According to instructions available at www.biotage.com.
- According to instructions provided through dialogs appearing on the screen.
- According to instructions given by the technical support staff from Biotage.
- Within limits set by the system's technical specification.

Failure to follow those instructions and operate within the limits set by the technical specification may result in personal injury and/or equipment damage.

2.3 Education, Training, and Competence

It is your responsibility to provide all applicable health and safety regulations to your personnel. You must also ensure that all personnel involved in the operation and maintenance of the system fulfill the following criteria:

- Have the necessary education, training, and competence required for the intended use of the system.
- Observe general and specific safety regulations for the use of the system and its accessories and consumables at all times, in order to reduce the risk of personal injury, fire, and explosion.

2.4 Static Electricity

When using Isolera flash purification systems with Biotage flash cartridges or any other commercial or home-made cartridge, care must be taken to avoid the consequences of static electricity build-up. This is particularly important when using the systems with flammable, non-conducting solvents operating under high-flow conditions. Static electricity can be generated as non-polar liquids flow through cartridges, tubing, pipes, valves, and filters during chromatographic operations. **It can also be brought to the operating environment by human bodies that have accumulated static charge; please follow your local regulations that apply to static electricity hazards.**

There are a number of simple steps that should be taken as important safety precautions:

- If you are not using the integrated Isolera fraction collector (using the Bypass Tray software feature), always collect solvents in a container that is grounded to earth to avoid build-up of static charge in the container. Ensure that the solvent tubing exit is positioned below the solvent surface in the collection container.
- When operating the Isolera system, especially when using high flow rates, wear anti-static clothing and shoes, or stand on an anti-static floor mat.
- If you cannot take the usual anti-static measures, touch a grounded metal object before approaching and handling the cartridge or Isolera system to discharge any static electricity that may have accumulated in your body. Grounded water pipes are particularly useful for static electricity discharge.
- Do not exceed recommended flow rates for flash cartridges (this information can be found in the flash cartridge documentation) nor allow flow at higher rates than specified through any Samplet®, dry load vessels, or pre-cartridges that you may be using. This can increase the risk of static build-up.
- Ensure that the presence of air bubbles in the flow lines is minimized since these can increase electrostatic charge by orders of magnitude.
- Static effects are most evident in low humidity situations. Maintaining humidity above 65% can be helpful as a preventive measure.
- In the event of solvent leaks, immediately switch off the system and disconnect the power cord(s). Do not wipe solvent away whilst the system is operating. In the event of leakage from a cartridge, immediately switch off the system, disconnect the power cord(s) and allow all solvent vapor to dissipate before removing the cartridge. **Do not wipe away any excess solvent from the cartridge surface as the process of wiping can generate additional static charge.**
- Read and follow your local static discharge codes of practice and available EU or US recommended procedures for the avoidance of hazards due to static electricity.

To guarantee safe and effective operation, it is absolutely necessary to follow all of the safety precautions and instructions in the user documentation supplied by Biotage.

2.5 Download User Documentation

The following Isolera user documentation can be downloaded from the system:

- Isolera™ Installation and Safety, P/N 411828
- Isolera™ User Manual, P/N 411829
- Isolera™ Quick Guide, P/N 411830
- Isolera™ Safety Translations, P/N 412861
- Isolera™ Dalton Getting Started Guide, P/N 413457
- Isolera™ Dalton System Care Guide, P/N UI320

To download the documents listed above, connect a USB memory device to the USB port located underneath the touch screen, press **Help**, and then press **Export User Documentation**.

2.6 Warranty and Liability

See the "Biotage Terms & Conditions of Sale" document at www.biotage.com.

2.7 Service

All service or adjustments must be performed by an authorized Biotage service engineer. Before handing over the system for service, it should be emptied of liquid and cleaned from harmful residues.

It is the responsibility of the customer to inform Biotage 1-Point Support representatives if the system has been used for analysis of hazardous biological, radioactive, or toxic samples, prior to any service being performed. When returning equipment to Biotage, this should be done in accordance with the material return procedures (RMA) supplied separately by Biotage.

Only genuine Biotage consumables and accessories must be used in the system.

2.8 Safety Requirements

WARNING

You must observe all safety requirements when installing and operating the Isolera system. Failure to install or use the system in a manner specified by Biotage may result in personal injury and/or equipment damage. If the system has been damaged or does not function properly, shut it down and contact Biotage 1-Point Support immediately (www.biotage.com).

2.8.1 Installation

- The Isolera system shall be unpacked and installed by an authorized Biotage service engineer.
- Follow regional safety practices when handling and moving shipping boxes and containers, and moving the system.
- Keep the mains plug(s) easily accessible in case the system needs to be disconnected quickly from mains power.
- Ensure that the power cord(s) and any cables, hoses, and tubing connected to the system cannot come in contact with water or chemicals. Corrosives and solvents can degrade the cord/cable insulation and dissolve the hoses and tubing. There is a risk of electric shock, fire, and/or equipment damage.
- External fire protection should be installed according to local regulations for equipment operating unattended.
- Operate the Isolera system in a well-ventilated fume hood verified as meeting the requirements of a "non-hazardous area" with regards to potentially explosive atmosphere and utilize the fume hood's safety features. If an internal system leakage occurs, liquids are drained through drain ports underneath the system. The Isolera system must therefore be operated in a fume hood that has the capacity to handle leakage of potentially flammable liquids. If using an Isolera LS Funnel Rack Kit, a walk-in fume hood must be used. Note that the maximum leakage volume is determined by the size of the used solvent reservoirs and that the flow rate is determined by the used method (the flow rate can be set to a maximum of 100 ml/min when using an Isolera Prime system, 200 ml/min when using an Isolera One, Isolera Four, or Isolera Dalton system, and 500 ml/min when using an Isolera LS system). It is strongly recommended that Biotage Leak Detector is used with the Isolera system.
- When funnel racks are used, they must be grounded (earthed) according to the instructions supplied with the racks (P/N 412948).
- Do not connect any accessory to any terminal other than what is specified in the user documentation.

2.8.2 Operation

- The Isolera system shall be used in accordance with the instructions found in the user documentation supplied by Biotage.
- Refer to “Safely Starting Up and Shutting Down” on page 2-6 for instructions on pausing, starting up, and shutting down the Isolera system safely. Note that the system is pressurized when it is paused.
- When small test tubes are to be used, ensure to adjust the flow rate so that no splashing will occur when fractions are collected.
- Never prime the Isolera system without a cartridge mounted on the system or without the cartridge’s inlet and outlet tubing coupled together. To avoid leakage, check all tubes and fittings before priming the system.

2.8.3 Power Supply and Fuses

- Use only the power cord(s) supplied with your Isolera system. The cord(s) should be inspected periodically and replaced if damaged or altered. NOTE: The ground prong on the cord plug must not be removed and the plug should only be connected to a grounded outlet as per local and national regulations.
- The Isolera system uses double pole fusing. Use only exact replacement fuses. Incorrect fuses create a potential fire hazard.

2.8.4 Solvents and Waste

- To avoid damaging the system, use care to ensure that all solvents used with your Isolera system are free of particulates. The filters on the solvent inlet lines should be cleaned (sonicated) or replaced every 1000 hours of operation or every 12 months, whichever comes first.
- Do not place glass reservoirs larger than 2.5 liters on the solvent tray.
- Do not place glass reservoirs larger than 1 liter on the Isolera Dalton Nanolink tray.
- Do not place solvent or waste reservoirs on top of Isolera Dalton Nanolink.
- The Isolera system operates using electricity, which can introduce additional hazards with certain solvents if not properly connected, vented, or set up with recommended manufacturer approved settings.
- Monitor the waste reservoir(s) to prevent overflow during operation.

2.8.5 Lab Safety Procedures

- Follow all generally-accepted lab safety procedures and applicable laws and regulations.
- Personnel working with or near the Isolera system must wear protective clothing, safety gear, and eye protection that have been approved by applicable local and national safety regulations.
- The Isolera system uses solvents. Always follow local and national safety regulations and the solvent manufacturer’s safety, handling, storage, and disposal recommendations; see solvent manufacturer’s SDS sheets.

2.8.6 Collection Arm

- To avoid being struck by the collection arm (see Figure 2-1 on page 2-8), keep hands away from the collection arm area while the Isolera system is in operation.
- Never reach into the collection arm slot (see Figure 2-1 on page 2-8) on the left side of the Isolera system. There is a risk of personal injury.

2.8.7 Ultraviolet Light

- Ultraviolet (UV) light can injure your eyes. Do not operate the Isolera system with the detector flow cell removed or the retaining latch (see Figure 2-1 on page 2-8) open.

2.8.8 In Case of Leakage and Maintenance

- Always handle leakage immediately. If leakage is observed, shut down the system as described on page 2-7, disconnect the power cord(s), and follow the instructions in the “Leaks” section in the “Isolera™ User Manual” (P/N 411829). Do not wipe away any excess solvent from the cartridge surface as the process of wiping can generate additional static charge.

- Follow all maintenance instructions in the "Maintenance" chapter of the "Isolera™ User Manual" (P/N 411829) and "Isolera™ Dalton Getting Started Guide" (P/N 413457), if using Isolera™ Dalton System.
- Lethal voltages are present inside the Isolera system. Do not remove the cover panels other than the service panel for replacement of the detector lamp(s) — there are no user serviceable parts inside. If you believe there is a problem with your system, please contact Biotage 1-Point Support immediately (www.biotage.com).

2.8.9 External Tubing and Fittings

- All tubing should be connected according to the instructions in the user documentation supplied by Biotage and checked for leaks before the Isolera system is operated.
- Ensure that the supplied drain tube for the solvent tray is not damaged and is safely connected to the Drain port at the rear of the system (see Figure 2-1 on page 2-8) and inserted into a separate waste reservoir.
- When Isolera Dalton Nanolink is used, ensure that the supplied drain tube for the tray is not damaged and safely connected to the tray and inserted into a separate waste reservoir. The drain tube and waste reservoir must be visible from the working position so leakage can be detected.
- Use caution when finger tightening fittings to prevent stripped threads or crushed ferrules.
- Use only tubing, nuts, and ferrules supplied by Biotage.

2.9 Labels Used on the System

The following labels are used on the system.

Label	Reference
	In accordance with all the essential requirements of all applicable European product directives; see the Declaration of Conformity document supplied with the product.
	In accordance with both U.S. and Canadian safety standards; see the Declaration of Conformity document supplied with the product.
	Subject to the Waste Electrical and Electronic Equipment (WEEE) Directive; see "WEEE Compliance Statement" below.
	Manufacturer
	Drain ports for leakage of potentially flammable liquids. If leakage is observed, shut down the system as described on page 2-7, disconnect the power cord(s), and follow the instructions in the "Leaks" section in the "Isolera™ User Manual" (P/N 411829).
	Ultraviolet (UV) light can injure your eyes. To prevent exposure, do not operate the Isolera system with the detector flow cell removed or the retaining latch (see Figure 2-1 on page 2-8) open.
	Consult accompanying user documentation.

2.10 WEEE Compliance Statement

Valid for customers in EU countries



We are committed to being a good corporate citizen. As part of that commitment, we strive to maintain an environmentally conscious manufacturing operation. The European Union (EU) has enacted a directive on product recycling (Waste Electrical and Electronic Equipment, WEEE).

Products falling under the scope of the WEEE Directive are identified with a crossed over "wheelie bin" symbol on the product label, as indicated to the left. To forward the products to recycling or proper disposal, use an authorized collection system or return them to Biotage Sweden AB.

2.11 Safely Starting Up and Shutting Down

This section describes the correct procedures to start up, shut down, pause/resume, and apply/remove power.

2.11.1 Start Up the System

NOTE

For instructions on how to start up Isolera Dalton System, see the "Isolera™ Dalton Getting Started Guide" (P/N 413457).

1. Ensure that all liquid lines are connected correctly and securely. For details, see the "Installation" section of this document.

WARNING

To avoid possible injury and equipment damage, keep your hands out of range of the collection arm while the homing routine runs in step 2 below.

2. Plug in the power cord and turn on the system. The power switch is located underneath the touch screen; see Figure 2-1 on page 2-8. The collection arm moves through its homing routine and the system boots to the system's main menu.

2.11.2 Pause and Resume a Purification Run

WARNING

Keep your hands out of range of the collection arm until it has stopped moving (with the collection arm in the inner right corner).

The system is pressurized when it is paused.

1. To pause the purification in progress, press **Pause** in the right-hand panel. The collection arm returns to its home position (the inner right corner) and the system is paused.
2. To resume the run from the point at which it was paused, press **Resume** in the right-hand panel.

2.11.3 End or Abort a Purification Run

WARNING

Keep your hands out of range of the collection arm until it has stopped moving (with the collection arm in the inner right corner).

1. To end or abort the purification in progress, press **Stop** at the **Status** tab. The collection arm returns to its home position (the inner right corner) and the system is paused.

2. When **Stop** is pressed, a dialog box opens giving you the option to either **End** or **Abort** the purification. If **End** is pressed, then the purification is stopped but all necessary fluid line and cartridge flushes and line purges are performed. If **Abort** is selected, the purification is stopped but no flushes or purges take place. **Abort** can also be used to end an active equilibration.
3. If you are using an Isolera Four system and there are queued runs, the processing of the queue is started by pressing **Resume** in the right-hand panel.

2.11.4 Orderly System Shutdown Procedure

NOTE

For instructions on how to shut down Isolera Dalton System, see the “Isolera™ Dalton Getting Started Guide” (P/N 413457).

An orderly system shutdown helps prevent data corruption. For critical applications, use of a suitable Uninterruptable Power Supply (UPS) may help avoid data loss during a power outage.

WARNING

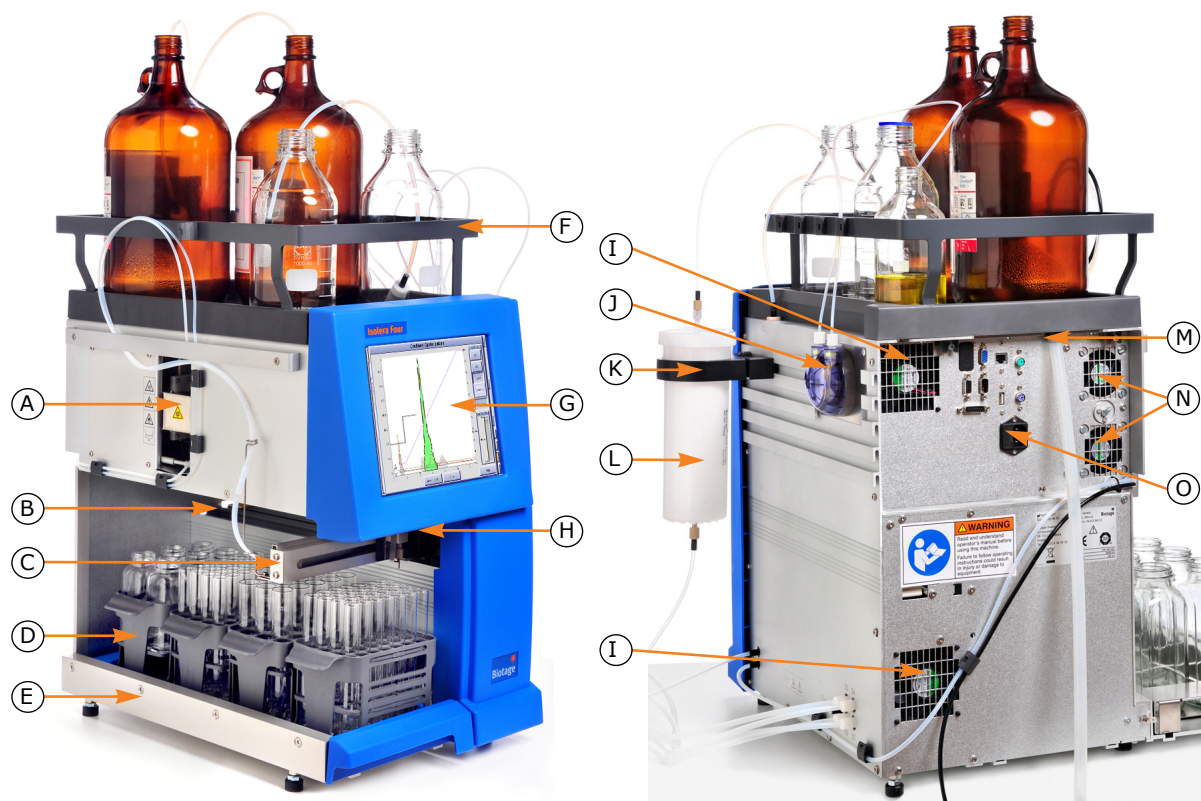
Failure to perform an orderly system shutdown may result in user data corruption. If possible, avoid shutting down during a purification run.

1. If you are not at the main menu, press **Main Menu** in the right-hand panel.
2. Press **Shut Down** in the main menu.
3. When the message *It is now safe to turn off the system* appears on the touch screen, turn off the system. The power switch is located underneath the touch screen.
4. If desired, unplug the power cord from the power outlet.

2.12 System Components

NOTE

For information on Isolera Dalton Mass Detector and Isolera Dalton Nanolink components, see the "Isolera™ Dalton Getting Started Guide" (P/N 413457).



- A Internal Detector Retaining Latch
- B Collection Arm Slot
- C Collection Arm
- D Collection Rack
- E Collection Tray
- F Solvent Tray
- G Touch Screen
- H Power Switch and USB port

- I Cooling Fan - System (2)
- J Sample Loading Pump (only on Isolera LS)
- K Cartridge Holder
- L Biotage® SNAP Cartridge
- M Drain Port
- N Cooling Fan - Internal Detector (2)
- O Fuse Holder and Power Inlet

Figure 2-1. Isolera System Components, Isolera Four (left) and LS (right) Shown

Chapter **3**

Contact Information

Manufacturer



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Sales Offices and Distributors

Please visit www.biotage.com for contact information.

Technical Support

Call, fax, or e-mail Biotage 1-Point Support, or request support online (www.biotage.com). See contact information on the back of this document or visit our website www.biotage.com.

When contacting Biotage 1-Point Support, please have the following information ready:

- Company name and contact information.
- Serial number of your Isolera system (see the product label at the rear of the system).
- A brief description of the symptoms or technical problems you are experiencing.

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