TurboVap® 96 Dual

Installation and Safety

Biotage®

TurboVap® 96 Dual

Installation and Safety

CONTENTS

Site Requirements

Before the system is installed, make sure your site meets these requirements:

Ventilation

Fume Hood/ Ventilation System	The system must be either connected to a ventilation system using the exhaust outlet at the rear of the system or placed in a well-ventilated fume hood or an equivalent enclosure to reduce the risk of exposure to harmful solvent vapors.
Minimum Exhaust Capacity	The ventilation system or fume hood must be capable of exhausting 1 m^3/min (35.3 ft^3/min).

Location

Surface Area	The fume hood or bench must be flat, level and able to support the weight of the system.
Required Clearances	» A minimum of 140 mm (5.5") between the front of the system and any solid objects to fully open the doors. » A minimum of 30 mm (1.2") between the exhaust outlet at the rear of the system and any solid objects. Only applicable when the exhaust hose is not used.
Environmental Requirements	Ensure that the site meets the environmental requirements regarding ambient temperature and humidity. See "Environmental Requirements" on page 7.
External Fire Protection	External fire protection should be installed according to local regulations for equipment operating unattended.

Connections

Electrical Supply	» Connect only to a properly grounded (earthed) outlet. » Minimum fuse size of site 1000 VA
Nitrogen Inlet Tube	Supplied with the system: » 6 mm outer diameter » Connectors for conversion to 1/4" or 3/8" outer diameter.
Pressure Regulator	The nitrogen supply system must have a pressure regulator. Available accessory (not included): » Pressure regulator (P/N 352281SP), » Supply connection set (P/N 353480SP).
Ethernet	Only intended for service and system updates.

Note: For more information on environmental requirements, nitrogen supply, electrical supply, connectors and the weight and dimensions of the system; see "Technical Specifications" on page 7.

Installation of TurboVap® 96 Dual

Warning

- Follow regional safety practices when handling and moving shipping boxes and containers, and when moving the system.
- The total weight of the package including the system is 24 kg (52.8 lbs). Use suitable lifting equipment when moving the package.
- Observe general and specific safety regulations for the use of the system and its accessories at all times in order to reduce the risk of personal injury, fire, and explosion; see the "Safety" chapter on page 9.

Unpack the System

Warning

- Follow regional safety practices when handling and moving shipping boxes and containers, and when moving the system.

Carefully unpack the system and set aside the exhaust hose and accessory box. Verify that all items listed on the packing list supplied with the system are included. If any parts are damaged or missing, please contact Biotage® 1-Point Support™ .

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. If you need to ship the system, please contact Biotage® 1-Point Support™ for instructions.

A Ethernet port
B N_2 port
C Exhaust outlet
D Mains switch
E Power inlet
F Fuse

Figure 1. The right and back side of the system.

Install the System

Warning

- Before installing the system, please read and observe the safety requirements in the "Safety" chapter on page 9.
- Ensure that the exhaust hose is properly installed. If it is not, solvents might gather and grow into salts in the exhaust outlet and in the hose. These salts block the exhaust flow which can lead to exposure to harmful vapors.
- Ensure that no hoses or tubing connected to the nitrogen supply or ventilation are misshaped and that the flow is not blocked.

1. Prepare the new site according to the site requirements on page 3.
2. Carefully lift the system and place it in a fume hood that fulfills the minimum exhaust capacity or on a bench. Note that the work area must be flat and level. Place the system so that the mains switch on the right side of the system and the nitrogen inlet on the back side of the system are easy to access.
3. If the system is not placed in a fume hood:
   a. Gently push one end of the exhaust hose over the exhaust outlet at the rear of the system (see C in Figure 1) and secure the hose with the clamp supplied in the accessory box.
   b. Route the other end of the exhaust hose to a proper external air ventilation system or hood. Ensure that the ventilation system is operating whenever the system is in use.

   Note: Do not vent the system through a trap.
4. Plug the appropriate power cord into the power inlet on the right side of the system (see E in Figure 1) and then plug the other end into a grounded (earthed) power outlet.
   Three power cords are supplied with the system to accommodate regional differences.
5. Connect a nitrogen supply to the **N_2** port on the back side of the system using the 6 mm OD tubing supplied with the system. The system is supplied with two connectors for conversion to 1/4" or 3/8" OD that can be used.
   Use a regulator (not supplied) to adjust the line pressure (see Figure 2). For full flow capability, set the pressure to between 3 and 6 bar (0.3 and 0.6 MPa; 44 and 87 PSI).

Note: If a drop in pressure from the nitrogen source occurs inspect the nitrogen source. Never adjust the regulator outside of the recommended parameters.

6. Do not connect the Ethernet port (see A in Figure 1).

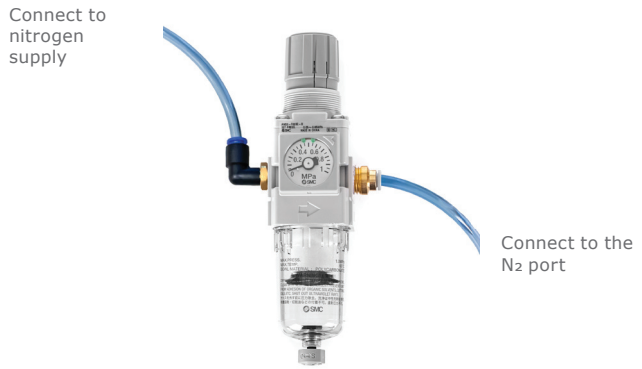

Figure 2. Pressure regulator (352281SP).

Turn on the System

Warning

- To avoid injury to person or damage to the system, do not exceed the maximum inlet pressure of 6.5 bar (0.65 MPa, 94 PSI).
- Ensure that the power cord and any cables, hoses, and tubing connected to the system cannot come in contact with 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.

1. Ensure that all applicable safety requirements are fulfilled. See “Safety Requirements” on page 10.
2. Turn on the system. The mains switch is located on the right side of the system; see D in Figure 1.
3. To set up and start an evaporation run, see the TurboVap® 96 Dual User Manual.

Move the System

Warning

- Follow regional safety practices when handling and moving shipping boxes and containers, and when moving the system.
- Ensure to follow the described procedure to disconnect the nitrogen inlet tube. Failure to do so can cause damage to the **N_2** port.

If you need to move the system within the laboratory or between laboratories in the same building, follow the instructions below. If you need to ship the system, please contact Biotage® 1-Point Support™ for instructions.

1. Disconnect the power cord and, if it is installed, the exhaust hose (see E and C in Figure 1).
2. Release the pressure in the gas inlet tube between the pressure regulator and the **N_2** port.
3. Press the nitrogen inlet tube and the ring around the **N_2** port inwards then pull to disconnect the nitrogen inlet tube (see Figure 3). Keep the ring pressed until the nitrogen inlet tube is entirely disconnected.
4. Ensure that the disconnected parts are placed in a safe location and that there is no risk for tripping over the power cord when moving the system.
5. If applicable, clean and decontaminate the system according to local SOP’s.
6. The system weighs 18.7 kg (41 lbs). Carefully lift the system and move to the new location.

Note: The center of gravity is towards the back of the system.

If the system is going into storage, follow the instructions for long term storage in the TurboVap® 96 Dual User Manual.

If the system is moved to a new location, follow the instructions in “Site Requirements” on page 3.

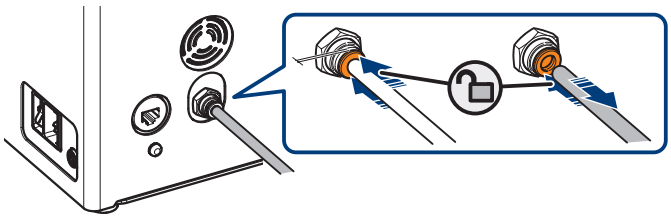

Figure 3. Disconnect the gas inlet tube

Connections

Power Supply

Warning

- Do not connect the system to an electrical supply that is not in accordance with the system's electrical specifications; see the rating plate located at the rear of the system.
- To avoid the risk of fire or electrical shock, the system must be electrically grounded (earthed). Use only a power cord supplied by Biotage. The plug should only be connected to a grounded outlet as per local and national regulations. Keep the mains plug easily accessible in case the system needs to be disconnected quickly from mains power.
- Use only exact replacement fuses supplied by Biotage. Incorrect fuses will void the warranty of the system and creates a potential fire hazard and potential personal injury.

The power inlet, mains switch, and fuse (P/N 415578SP) are located on the right side of the system; see D–F in Figure 4.

A	Ethernet port	**D**	Mains switch
B	**N_2** port	**E**	Power inlet
C	Exhaust outlet	**F**	Fuse

Figure 4. The right and back side of the system

Gas Supply

Warning

- To avoid injury to person or damage to the system, do not exceed the maximum inlet pressure of 6.5 bar (0.65 MPa, 94 PSI).
- Only connect nitrogen gas to the **N_2** port.

The **N_2** port is located on the back of the system; see B in Figure 4. The system is shipped with an inlet tube and two connectors for conversion of the outer diameter. See "Technical Specifications" on page 7 for measurements.

A pressure regulator for the nitrogen inlet can also be purchased separately as an accessory (P/N 352281SP Pressure Regulator and P/N 353480SP Supply Connection Set).

Note: The system is designed to use nitrogen. It is possible to use compressed air, however Biotage cannot guarantee that the system will work at full performance, and there might be associated risks that are not accounted for. Therefore, use of compressed air is at your own risk.

Note: It is strictly prohibited to use other gases!

Exhaust Outlet

Warning

- Use only an exhaust hose supplied by Biotage. To avoid excessive pressure drop, it is important to use an exhaust hose with the appropriate length and internal diameter.
- The ventilation system or fume hood must be capable of exhausting 1 m^3/min (35.3 ft^3/min). Insufficient flow can cause concentrations of solvents in the exhaust system. Risk of explosion and fire.

Solvent vapors are removed by an exhaust fan and routed to the exhaust outlet at the rear of the system; see C in Figure 4. If the system is not placed in a fume hood, connect it to a ventilation system using the exhaust hose supplied with the system.

Note: Do not vent the system through a trap.

Note: If the system is placed in a fume hood, ensure that the required clearances to any solid objects are followed; see "Site Requirements" on page 3.

Ethernet

The Ethernet port is intended for service and for software updates, not for daily use. Only authorized personnel should connect the system to a network.

Technical Specifications

System

Dimensions (W X D X H)	337 x 365 x 451 mm (13.3" x 14.4" x 17.8") closed 337 x 486 x 451 mm (13.3" x 19.1" x 17.8") open including the exhaust outlet at the rear.
Weight	18.7 kg (41 lbs)
Electrical Supply	100–127 V or 220–240 V at 50/60 Hz Overvoltage category II
Fuses	T10A, 250 VAC
Max. Power Consumed	1000 VA
Max Sound Level	75 dB(A)
Touch Screen	7"
Certifications	CE marked and CB and NRTL certified.

Environmental Requirements

Operating Temperature	15 °C to 30 °C
Storage Temperature	-25 °C to 60 °C
Altitude	Up to 2000m altitude
Location	Indoor use only Not for wet location
Dust/Pollution	Pollution degree 2[1]
Humidity	20% to 90% RH (non-condensing)

Gas Supply

Gas	Nitrogen
Minimum Pressure	3 bar (0.3 MPa, 44 PSI).
Recommended Pressure	3-6 bar (0.3-0.6 MPa, 44-87 PSI)
Maximum Pressure	6.5 bar (0.65 MPa, 94 PSI).
Gas Flow	The maximum flow capability for each manifold is 90 L/min. To reach the required flow the pressure must adhere to the recommended pressure.

1. Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected, in accordance with EN 60664-1

Ventilation

Fume Hood/ Ventilation System	» Fume hood or equivalent enclosure, or » Connected to a ventilation system via the exhaust outlet.
Minimum Exhaust Capacity	1 m^3/min (35.3 ft^3/min)

Connectors

Power Cord	EU, US and UK
Nitrogen Inlet Tube	» 6 mm outer diameter » Connectors for conversion to 1/4" or 3/8" outer diameter.
Exhaust Hose	Lenght 3.8 meters (12.5 feet) Inner diameter 50.8 mm (2")

Evaporation System

Gas Heater Temperature Range	Ambient to 65 °C, ± 2 °C accuracy.
Plate Heater Temperature Range	Ambient to 80 °C, ± 2 °C accuracy.
Well Plate format	Compatible with well plates that conforms to ANSI SLAS 1-2004 (R2012)

Evaporation Chemicals

Solvent Compatibility	» Acetone » Acetonitrile » Acetyl Chloride » Butanol » Chloroform » Dichloromethane » Diethyl ether » Dimethylformamide » Dimethylsulfoxide » Ethanol » Ethyl acetate » Heptane » Hexane » Isooctane » Isopropanol » Methanol » Methyl *tert*-butyl ether » Pentane » Pyridine » Tetrahydrofuran » Toluene » Water
Chemical Resistance	Do not use any concentrated (neat) inorganic acids such as, but not limited to, Sulfuric Acid, Nitric Acid, or Hydrochloric Acid. The standard system is resistant to the acids and bases below. The use of these acids as bases in combination with moderate to high heat can significantly reduce the lifetime of the manifolds, plate clips, and belt drive wheel: » Trifluoroacetic acid 5% » 0.2 M Hydrochloric Acid in Methanol » Formic acid 5% » Acetic acid 10% » Phosphoric acid 5% » Propionic acid 10% » Ammonium hydroxide 10% » Triethylamine 10%

Safety

Intended Use

TurboVap® 96 Dual from Biotage is intended solely for concentrating samples for applications in sample preparation, including, but not limited to, Solid Phase Extraction (SPE), Supported Liquid Extraction (SLE), Protein Precipitation, and/or Filtration. The system has to be operated in a laboratory environment by trained professionals. 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.

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 at all times in order to reduce the risk of personal injury, fire, and explosion.

Warranty and Liability

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

Service

All service must be performed by an authorized Biotage service engineer. Before handing over the system for service, it should be emptied of all 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 with hazardous biological, radioactive, or toxic samples and/or solvents, prior to any service being performed. When returning equipment to Biotage, this should be done in accordance with the material return procedures supplied separately by Biotage.

Only use genuine Biotage accessories in the system.

Labels

Labels used on the system:

CE	In accordance with all the essential requirements of all applicable European product directives; see the Declaration of Conformity.
TÜV SÜD C US	In accordance with both U.S. and Canadian safety standards; see the Declaration of Conformity.
RoHS	In accordance with the Restriction of Hazardous Substances Directive.
	Subject to the Waste Electrical and Electronic Equipment (WEEE) Directive; see "WEEE Compliance Statement" on page 11.
	Manufacturer.
	Warning hot surface.
	Consult accompanying user documentation.
N_2	Nitrogen

Product Safety Warning

The system is not classified as "Explosion Proof". The power switch is an arcing source and could ignite explosive vapors. Do not change the position of the power switch (turn on or off the system) when explosive vapors are present. If it is necessary to turn off the system, disconnect the power cord from the power outlet.

Safety Requirements

You must observe all safety requirements when installing and operating the 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, turn it off immediately and contact Biotage® 1-Point Support™ (www.biotage.com).

Installation

- The system must be unpacked and installed as described in this document.
- Follow regional safety practices when handling and moving shipping boxes and containers, and when moving the system.
- The total weight of the package including the system is 24 kg (52.8 lbs). Use suitable lifting equipment when moving the package.
- The system must be either connected to a ventilation system using the exhaust outlet at the rear of the system or placed in a well-ventilated fume hood or an equivalent enclosure to reduce the risk of exposure to harmful solvent vapors.
- The ventilation system or fume hood must be capable of exhausting 1 m^3/min (35.3 ft^3/min). Insufficient flow can cause concentrations of solvents in the exhaust system. Risk of explosion and fire.
- Use only an exhaust hose supplied by Biotage. To avoid excessive increase in pressure, it is important to use an exhaust hose with the appropriate length and internal diameter.
- Do not connect the system to an electrical supply that is not in accordance with the system's electrical specifications; see the rating plate located at the rear of the system.
- To avoid the risk of fire or electrical shock, the system must be electrically grounded (earthed). Use only a power cord supplied by Biotage. The plug should only be connected to a grounded outlet as per local and national regulations. Keep the mains plug easily accessible in case the system needs to be disconnected quickly from mains power.
- To avoid injury to person or damage to the system, do not exceed the maximum inlet pressure of 6.5 bar (0.65 MPa, 94 PSI).
- Only connect nitrogen gas to the **N_2** port.
- Ensure that the power cord and any cables, hoses, and tubing connected to the system cannot come in contact with 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.
- Do not place any equipment or bottles on top of or above the system.
- Ensure that no hoses or tubing connected to the nitrogen supply or ventilation are misshaped and that the flow is not blocked.
- Ensure that the exhaust hose is properly installed. If it is not, solvents might gather and grow into salts in the exhaust outlet and in the hose. These salts blocks the exhaust flow which can lead to exposure to harmful vapors.
- External fire protection should be installed according to local regulations for equipment operating unattended.
- Ensure to follow the described procedure to disconnect the nitrogen inlet tube. Failure to do so can cause damage to the **N_2** port.

Operation

- Use the system only for its intended purpose, as described in the user documentation delivered with the system and user documentation available at www.biotage.com. If the system is used in a manner not specified by Biotage, the safety features of the system may be impaired.
- The surface temperatures of the gas heater and the plate heater can be very hot. Avoid contact, potential risk for burn damage.
- Never operate a damaged system.
- When using flammable solvents, read and follow your local static discharge codes of practice and available national recommended procedures for the avoidance of hazards due to static electricity.
- If flammable solvents have been spilled into the plate heater, they must be cleaned according to local SOPs for solvent spills or biological samples.
- If not in contradiction with your local practices and procedures, wear antistatic protective clothing and footwear, or stand on an anti-static floor mat when using flammable solvents. If you cannot take the usual anti-static measures, touch a grounded (earthed) metal object before opening the lid on the system to discharge any static electricity that may have accumulated on your body.
- The nozzles may have come into contact with hazardous samples. Avoid contact.
- Ensure not to bend any of the nozzles. If a nozzle is bent, it is recommended that the manifold is replaced.

- Do not touch the inside of the gas heater. Touching may leave residues that can contaminate the following runs.
- Exhaust solvent vapors exiting the system may be hazardous and can contaminate the surrounding air. Maintain proper ventilation and consult the safety data sheets (SDS) for all of the solvents used.
- The 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.
- Follow all generally-accepted lab safety procedures and applicable laws and regulations.
- Always follow local and national safety regulations related to storage, handling and disposal of chemicals, samples and waste.
- Read and understand the safety data sheet (SDS) provided by the chemical manufacturer before storing, handling, working with, or disposing of any chemical or hazardous substance.
- Personnel working with or near the system must wear protective clothing, safety gear, and eye protection that comply with local and national safety regulations.

Maintenance and Troubleshooting

- Follow all maintenance instructions in the “Maintenance” chapter of the user manual (P/N 418001).
- Always turn off the system, disconnect the power cord, and let the system cool down before performing maintenance.
- There are no user serviceable parts other than the fume shield and manifolds. Covers may only be removed by an authorized Biotage service engineer. Potential electrical hazard exist due to high voltage circuits inside the system.
- The power cord should be inspected periodically and replaced if damaged or altered. Use only a power cord supplied by Biotage.
- Never clean the surface where the manifolds are secured to the gas heaters, and be careful when cleaning the outside of the gas heaters. If a foreign substance comes in contact with the inside of a gas heater it may contaminate future evaporation runs and the gas heater may need to be replaced.
- Use only exact replacement fuses supplied by Biotage. Incorrect fuses will void the warranty of the system and creates a potential fire hazard and potential personal injury.
- If the exhaust fan at the back of the system stops working, take the necessary precautions to avoid exposure to potentially harmful solvent vapors, remove any samples, and then turn off the system by disconnecting the power cord from the power outlet and contact Biotage® 1-Point Support™.

Warnings in the Software

The software has 3 types of information messages:

	Error	An error message is displayed. The system shuts down, ongoing evaporation runs are terminated, the gas flow is terminated, the plate heaters are turned off and the LED lights change color to red. Follow the instructions displayed in the message.
	Warning	A warning message is displayed. The system continues to run. The LED lights do not change color. Follow the instructions displayed in the message.
	Info	An information message is displayed. Follow the instructions displayed in the message.

Restriction of Hazardous Substances Directive (RoHS) Policy

The RoHS directive is a European Union-derived initiative in which the elimination of certain hazardous substances is the key objective. The elimination of these substances will contribute to the protection of human health and the environmentally sound recovery and disposal of equipment.

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 a product for recycling or proper disposal, return them to Biotage Sweden AB.

Before forwarding a product for recycling or disposal, it should be emptied of all liquid and cleaned from harmful residues. When returning a product to Biotage, this should be done in accordance with the material return procedures supplied separately by Biotage.

Safety in Other Languages

A document with translations of the safety chapter is supplied with the system and can also be downloaded at www.biotage.com. If you have problems downloading the safety translations (P/N 418323), please contact your local Biotage representative. See contact information on the back of this document or visit our website www.biotage.com.

General Information

Software License Agreement

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

TurboVap® User Documentation

The following user documentation is supplied with the system and/or can be downloaded at www.biotage.com:

- TurboVap® 96 Dual Installation and Safety, P/N 418002 (this document)
- TurboVap® 96 Dual User Manual, P/N 418001
- TurboVap® 96 Dual Quick Start Guide: Set Up and Perform a Run, P/N 418003
- TurboVap® 96 Dual Quick Start Guide: Set Up a Method, P/N 418004
- TurboVap® 96 Dual Quick Start Guide: System Maintenance, P/N 418005
- TurboVap® 96 Dual Safety Translation, P/N 418323

If you have problems downloading the user documentation, please contact your local Biotage representative. See contact information on the back of this document or visit our website www.biotage.com.

Accessories and Spare Parts

Only use genuine Biotage accessories in the system.
To order consumables and accessories, see contact information on the back of this document or visit our website www.biotage.com.

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Intellectual Property

Patent pending.

Notes

Your Complete Partner for Effective Chemistry

Biotage is a worldwide supplier of instruments and accessories designed to facilitate the work of scientists in life sciences. With our deep knowledge of the industry, academic contacts and in-house R&D teams, we can deliver the best solutions to your challenges. We take great pride in our flexibility and ability to meet our customer's individual needs. With strong foundations in analytical, organic, process, and biomolecule chemistry, we can offer the widest range of solutions available on the market.

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