

# Site Requirements

## TurboVap®

### Dear Valued Customer

The following document will assist you in the preparation of your laboratory for a successful installation of the TurboVap®. Please read and sign where indicated at the end of this document. Your signature validates that you have understood our requirements. We cannot guarantee a complete installation or demonstration if the requirements are not met. If you have any questions please don't hesitate to contact Biotage® 1-Point support™.

### Customer Responsibility

Make sure your site meets these requirements, including the necessary ventilation, space, electric outlets, gases, and tubing required for a successful installation of the system. Users of the system should be present throughout the installation and familiarization services; otherwise, they will miss important operational, maintenance, and safety information. Before the system is installed, the installation site should be prepared as follows:



### Biotage 1-Point Support™

#### Europe

+46 18 56 59 11

#### North & Latin America

+1 704 654 4900

or toll free +1 800 446 4752

#### Japan

+81 3 5627 3123

#### China

+86 21 2898 6655

#### Korea

+82 31 706 8510

#### 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. The ventilation system or fume hood must be capable of exhausting 1 m<sup>3</sup>/min (35.3 ft<sup>3</sup>/min).

#### Weights and Dimensions

Connection: The exhaust hose supplied with the system is 3.8 meters (12.5 feet) and has a 50.8 mm (2") inner diameter.

The total weight of the package including the system is 20 kg (44 lbs). Use suitable lifting equipment when moving the package.

The fume hood or bench must be able to support the weight of the system. The system weighs 17 kg (37.5 lbs) when the water bath is empty and maximum 29 kg (63.9 lbs) when full with deionized water, rack, and tubes.

The dimensions of the system are (W x D x H): 400 x 400 x 390 mm (15.7" x 15.7" x 15.4") including the hinges at the sides and the exhaust outlet at the rear. Note that the height with the lid open is 590 mm (23.2").

Leave a minimum distance of 30 mm (1.2") between the front of the system and any solid objects. The system requires this clearance for proper evacuation of solvent vapors.

#### Operating Temperature

18 °C to 32 °C

#### Humidity

20% to 90% RH (non-condensing)

#### Electrical Supply

100–127 V or 220–240 V at 50/60 Hz, 1000 VA. Connect only to a properly grounded outlet.

#### Gas Supply

The system should operate using nitrogen gas. Compressed air can be used but is not recommended with some solvents due to the possible risk of explosion.

Required supply pressure for full flow capability: 6 bar (0.6 MPa, 87 PSI).

Maximum pressure: 9 bar (0.9 MPa, 130 PSI).

Maximum flow capability for each manifold:

- » 48 positions: 200 liters/min
- » 24 positions: 160 liters/min
- » 6 positions: 50 liters/min

Connection: The gas inlet tube supplied with the system has a 6 mm outer diameter. Note that there is no regulator for the gas inlet supplied with the system. This can be purchased separately as an optional accessory (P/N 352281SP Pressure Regulator and P/N 353480SP Supply Connection Set).

#### External Fire Protection

External fire protection should be installed according to local regulations for equipment operating unattended.

## Installation Options

In the case of installation outside of fume hood or safety cabinet it is a customers responsibility to provide a suitable ventilation source capable of exhausting 1 m<sup>3</sup>/min (35.3 ft<sup>3</sup>/min). The exhaust hose supplied with the system is 3.8 meters (12.5 feet) and has a 50.8 mm (2") inner diameter.

Biotage recommends the system should operate using nitrogen gas. Compressed air can be used but is not recommended with some solvents due to the possible risk of explosion.

Only one power outlet is required for installation.



## Gas Supply Connection

The gas inlet tubing provided with the system has a 6 mm (0.24") outer and 4 mm (0.16") inner diameter and is 3 m (9.84 ft) in length. it is a customers responsibility to ensure that suitable connections are available to their primary gas supply within the laboratory.

Note that there is no regulator for the gas inlet supplied with the system. This can be purchased separately as an optional accessory

(P/N 352281SP Pressure Regulator and P/N 353480SP Supply Connection Set).

Biotage supplies the system with the following adapters to facilitate connection

1 x 1.4" OD (female) to 6 mm OD (female) converter

1 x 3/8" OD (female) to 6 mm OD (female) converter



**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Print Name:** \_\_\_\_\_

### EUROPE

Main Office: +46 18 565900

Toll Free: +800 18 565710

Fax: +46 18 591922

Order Tel: +46 18 565710

Order Fax: +46 18 565705

order@biotage.com

Support Tel: +46 18 56 59 11

Support Fax: + 46 18 56 57 11

eu-1-pointsupport@biotage.com

### NORTH & LATIN AMERICA

Main Office: +1 704 654 4900

Toll Free: +1 800 446 4752

Fax: +1 704 654 4917

Order Tel: +1 704 654 4900

Order Fax: +1 434 296 8217

ordermailbox@biotage.com

Support Tel: +1 800 446 4752

Outside US: +1 704 654 4900

us-1-pointsupport@biotage.com

### JAPAN

Tel: +81 3 5627 3123

Fax: +81 3 5627 3121

jp\_order@biotage.com

jp-1-pointsupport@biotage.com

### CHINA

Tel: +86 21 2898 6655

Fax: +86 21 2898 6153

cn\_order@biotage.com

cn-1-pointsupport@biotage.com

### KOREA

Tel: + 82 31 706 8500

Fax: + 82 31 706 8510

korea\_info@biotage.com

kr-1-pointsupport@biotage.com

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Part Number: UI345

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