

# Biotage® SPE Dry 96

## Sample Concentrator System

Biotage® SPE Dry 96 and SPE Dry 96 Dual Sample Concentrators are suitable for evaporation of microplate samples across a broad range of formats. By delivering heated gas above and below each well, SPE Dry 96 systems dry samples quickly maintaining tight temperature control at user selected settings. Designed for high throughput sample processing, SPE Dry systems have simple front panel controls and use removable gas delivery assemblies for fast adjusting and cleaning.

### Versatile Formats

SPE Dry is designed with novel technology and a simple interface to produce uniform and reproducible evaporation. The design has a small footprint to fit easily in the fume hood. The heating mechanism is designed to rapidly heat without overshooting the temperature, preventing degradation of temperature sensitive compounds.

Standard SPE Dry 96 and SPE Dry 96 Dual systems are supplied with stainless steel needles. For high purity work, or applications that require particularly aggressive solvents, PTFE coated needles are available. Both needle types can be individually replaced should they become damaged or corroded.

SPE Dry is available in single or dual format and adapts easily to 24-, 48-, 96-, and 384-well microplate formats.

### Advantages

- » Efficient evaporation through heated gas flow above and below collection plate
- » Precise temperature control and gas flow with reproducible evaporation times
- » Compact design
- » Easy to use
- » Suitable for 24-, 48-, 96- and 384-well microplates



**Figure 1.** SPE Dry 96 with optional Biotage® ACT Plate Adapter (left). SPE Dry 96 Dual (right).

### Specifications

<b>Technology</b>	Heated gas delivery above and below wells speeds evaporation
<b>Number of Samples</b>	Models for one or two 96 well plates
<b>Format</b>	8 x 12 well microplates and deep-well plates
<b>Timer</b>	Manual
<b>Max. Sample Volume</b>	10 mL collection plates
<b>Final Endpoint Volumes</b>	–
<b>Capacity</b>	24, 48, 96 or 384 well plates
<b>Operating Temperature</b>	60 °C (upper head) 80 °C (lower head)
<b>Gas Supply Requirements</b>	1 bar to 4 bar (15 psi to 65 psi)
<b>Operating Flow Rate</b>	Min 25 LPM, Max 60 LPM (Single), 90 LPM (Dual)
<b>Exhaust</b>	–
<b>Electrical Supply</b>	110 or 220 VAC, 50 or 60 Hz, 5A
<b>Max. Power Consumed</b>	405 VA
<b>Dimensions (WxDxH)</b>	25.4 cm x 38.1 cm x 40 cm (dual) 10" x 15" x 15.7" 24.2 cm x 30.6 cm x 40 cm (single) 9.5" x 12" x 15.7"
<b>Weight</b>	13.9 kg/31 lbs
<b>Certifications</b>	EN61326 (1997 w/A1: 98 & A2: 01) Class A
<b>Humidity</b>	20% to 80% RH (non-condensing) up to 31 °C

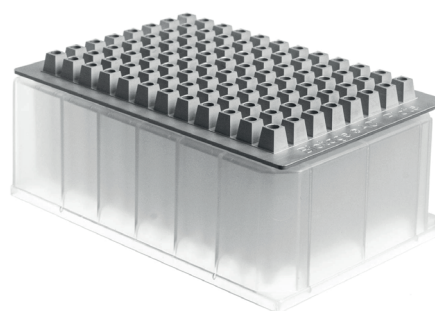
## Evaporation Rates<sup>1</sup> (minutes)

Solvent	40 °C <sup>2</sup>		60 °C <sup>2</sup>	
	500 µL <sup>3</sup>	1 mL <sup>4</sup>	500 µL <sup>3</sup>	1 mL <sup>4</sup>
Methanol	14	28	11	20
Water	90	165	46	86
Methanol/water (50:50)	46	95	28	56
Propan-2-ol	16.5	26	11.5	16.5
Acetonitrile/water (50:50)	51	60	31	36
Methanol/acetonitrile (50:50)	19	24	12	15
Acetonitrile	17	20	12	15.5
Methanol/(v/v) 1% NH <sub>4</sub> OH	18	28	13.5	16
DMF	73	105	33	41
Methanol/dichloromethane (50:50)	12	15.5	7.5	9.5
Dichloromethane (v/v) 1% NH <sub>4</sub> OH	8.5	11.5	6	8

- Experiments were conducted with flow rate at 50 liters/minute at the upper manifold and 30 liters/minute at the lower manifold. Drying gas used was compressed air. Only standard moisture trap was used within the system. Moisture content of ambient air will affect results.
- Temperatures refer to the upper head. Bottom unit was 20 °C higher.
- 500 µL volumes were in a 1 mL collection plate.
- 1 mL volumes were in a 2 mL collection plate.

## Biotage® ACT Plate Adapter

Protect your samples from cross contamination (cross talk) during evaporation. Designed for use with square well collection plates, Biotage® ACT (Anti Cross Talk) Plate Adapter is compatible with Biotage® SPE Dry 96 and SPE Dry 96 Dual Sample Concentrator Systems.



## Ordering Information

Part Number	Description	Quantity	Part Number	Description	Quantity
SD-9600-DHS-NA	SPE Dry 96 Sample Concentrator System, 100/120V	1	SD2-9600-DHS-EU	SPE Dry 96 Dual Sample Concentrator System, 220/240V	1
SD-9600-DHS-EU	SPE Dry 96 Sample Concentrator System, 220/240V	1	SD2-9600-DHS-T-NA	SPE Dry 96 Dual Sample Concentrator System, with PTFE Coated Needles (Top Head Only), 100/120V	1
SD-9600-DHS-T-NA	SPE Dry 96 Sample Concentrator System, with PTFE Coated Needles (Top Head Only), 100/120V	1	SD2-9600-DHS-T-EU	SPE Dry 96 Dual Sample Concentrator System, with PTFE Coated Needles (Top Head Only), 220/240V	1
SD-9600-DHS-T-EU	SPE Dry 96 Sample Concentrator System, with PTFE Coated Needles (Top Head Only), 220/240V	1	414355SP	Biotage® ACT Plate Adapter	1
SD2-9600-DHS-NA	SPE Dry 96 Dual Sample Concentrator System, 100/120V	1	121-5202	Collection plate, 1 mL, Square	1
			121-5203	Collection plate, 2 mL, Square	1

### 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

Distributors in other regions are listed on [www.biotage.com](http://www.biotage.com)

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