

Biotage® V-10 Touch

Walk-up, Walk-away Evaporation System



Meet Biotage® V-10 Touch Evaporation System

Biotage® V-10 Touch rapidly dries samples dissolved in both aqueous and organic solvents. It easily evaporates HPLC fractions from purification or high boiling-point solvents from synthesis, and it features a novel dry-down onto silica technique for easier dry loading before purification.

- » Quick turnaround of single samples
- » Reduced manual sample handling – vial reformatting, sample transfer
- » Consistent, reproducible operation



What Can it Do?



Evaporate High Boiling Solvents

You can run high-temperature reactions without worrying about solvent removal. Biotage® V-10 Touch rapidly evaporates high boiling-point solvents like DMF, DMSO and NMP.



Dry Down Directly onto Silica

By mixing your sample in a silica slurry, you can dry it directly onto the silica, making it ready for instant purification.



Continuous Processing

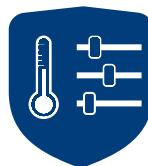
You can dry purified fractions automatically when Biotage® V-10 Touch is combined with a Gilson liquid handler.

How Does it Do it?



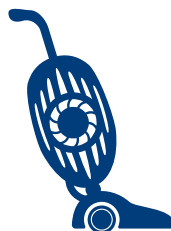
Speed Without Bumps

You can perform quick evaporation without the risk of bumping or contamination with rotation speeds up to 8,000 rpm.



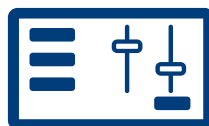
Hot Precision

Your sample is kept safe at all times with precise contact-free heating and live IR control which monitors your evaporation.



Vacuum Powered Success

Accelerate the evaporation process with the 2 mbar built-in vacuum pump. With the external pump you can even evaporate DMSO and NMP in minutes.



Full Control at Your Fingertips

The clean touch interface gives you complete on-the-fly control over temperature and pressure. Use the built-in methods for common solvents, or program your own and tailor the system to your needs.



Watch the Video
at vimeo.com/144845402

Biotage® V-10 Touch with Solvent Manager and Automation

Effortless Control

Set temperature, pressure level and method for optimal evaporation conditions at all times.

Automated Vial Holder

16 position vial sample holder for convenient queuing.

Vial Compatibility

Versatile vial rotator fittings accommodate vials from 30 mL down to 4 mL.





Sample Delivery

Precision piston pump ensures accurate sample delivery and solvent exchange. The sample loop maintains excellent sample integrity and precision.

System Solvent

Redissolve your sample after evaporation and switch solvents easily. Also used as cleaning solvent to maintain sample integrity.

Sample Inlet

Up to 1 liter of sample can be evaporated and concentrated into your vial of choice.

Biotage® V-10 with Gilson and Control Centre

Gilson Liquid Handler

The Gilson liquid handling robot automatically transfers your purified samples to V-10 Touch for sequential automated evaporation.



3

Automated Evaporation Processing

Biotage® V-10 Touch evaporates the purified fractions and places the dried samples neatly on the vial carousel.

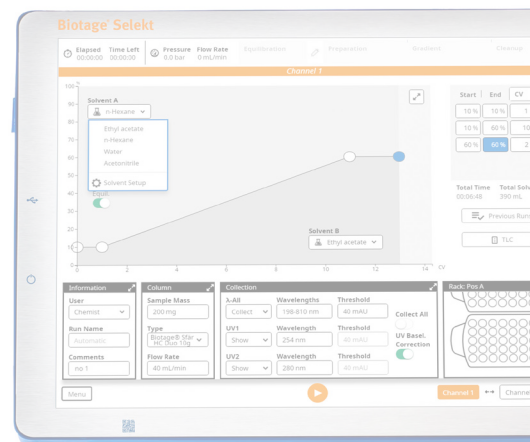




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Control Centre

The Control Centre software integrates the V-10 evaporation system with the Gilson liquid handling robot. This extension lets you combine multiple fractions or samples from different tube racks and dry them into a single vial in one operation. Define your own racks and workspaces or choose from Biotage pre-defined for quick setup.



1

Evaporate Your Fractions

After purification, place the tube rack with your fractions and let Gilson deliver them into your evaporation vial of choice for convenient combining and evaporation. (Biotage® Selekt Purification system is not included in the configuration).

Biotage® V-10 Touch Accessories

Carousel Vial Holders

Flexible vial holders for 16 position automation. Available for different vial type and size. See Table 1 and the Ordering Information.



Chemically Resistant Upper Vial Face Seal

V-10 face seal, Chemraz, PN 413210. Withstands evaporation of 100% TFA from your peptide samples.



Wide Range of Adapters

20 and 30 mL vials fit directly onto the V-10 evaporator. Adapter kits are available for the different types of 4, 8, and 16 mL vials. Attach the top and bottom adapter to the vial and place it in the vial rotator. See configurations in Table 1.



External Vacuum Pump

Connect it to enhance vacuum performance to evaporate DMSO and NMP.



Upper Head Adapter Assembly

Standard assembly for 4, 8, 20 and 30 mL vials (left), accessory assembly for 16 mL vials (right).



Find Your Vial Adapter


Vial Type	4 mL	8 mL	16 mL	20 mL	30 mL
Upper Head Adapter Assembly					
Upper Head PN	Default	Default	412867	Default	Default
Upper Adapter					
Upper Adapter PN	410647	412758	Not needed	Not needed	Not needed
					
Lower Adapter					
Lower Adapter PN	411031	411999	412000	Not needed	Not needed
Height (mm)	45.0	60.2	69.9	56.5	72.5
Diameter (mm)	14.1–16.5	16.4	20.7	27.4	27.7
Inner Neck Diameter (mm)	8.5–12.0	9.7	11.6	17.4	17.4
Carousel Vial Holder PN	411182 (type A/B) 411183 (Type C)	-	411985	411181	411181

Table 1. Parts are depicted in true scale. Match your vial directly against the table and find your adapter part numbers.

System Specifications



Solvent Compatibility

Boiling points from 30 °C to 160 °C (up to 205 °C with an external vacuum pump). The system is not suitable for solutions containing HCl at any concentration.



Heating

20 °C to 70 °C



Rotational Speed

3000 to 8000 rpm



Condenser

Refrigerated condenser temperature: -25 °C.
Automated and manual draining; and manual defrost.



Vacuum

Pressure control method: Variable speed and level. Internal vacuum Pump: 5 mbar.
Optionally an external vacuum pump can be connected using a KF-16 vacuum flange.



Vial Compatibility

30 mL scintillation vial
20 mL scintillation vial
16 mL vial
8 mL vial
4 mL vial



Solvent Reclamation

Up to 98% of solvent vapors under typical conditions



Exhaust

Double trapping



Electrical Supply

220–240 V~, 50 and 60 Hz, 10 A



Max. Power Consumed

2100 VA



Dimensions (WxDxH)

40 cm x 48 cm x 53 cm
15.7" x 18.9" x 20.9"



Weight

50 kg/110 lbs



Part Numbers

V10-2XX V-10 Touch System
V10-2SC V-10 Touch System with Solvent Manager and Automation



Accessories

411181 Carousel Vial Holder 30/20 mL vials
411816 Gilson Liquid Handler GX271 - V-10

System Features

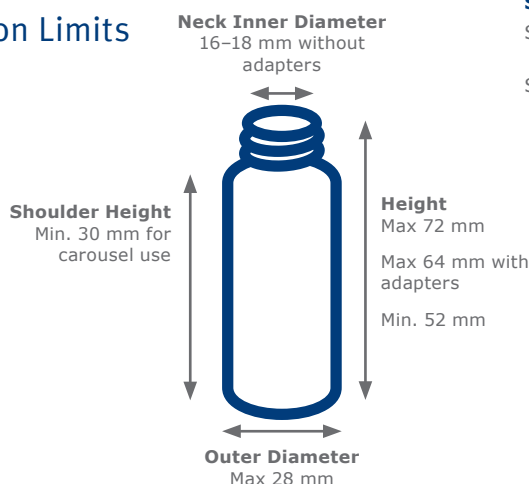
Feature	Advantage	Benefit
High Speed Vial Rotation	Eliminates risk of bumping during vacuum evaporation	Quick evaporation
Built in Condenser and Vacuum Pump	No need to plug in external equipment	Better control, uses minimal bench space
High Power Vacuum Pump Runs at 2 mbar	Evaporate high-boiling point solvents	Expanded reaction design possibilities
Pre-Defined Methods	Faster set-up and accessibility to inexperienced users. Ensures optimal evaporations.	Increases lab efficiency
Collects Dried Compound in Vial of Choice	No manual sample transfer	Higher sample recovery
Automatic End-of-run Detection	Detects when sample is finished	Maximized sample yield, optimizes lab efficiency

Evaporation Performance

Volume & Solvent	Method	Evaporation Time
30 mL Vials		
12 mL NMP	Very-High Boil	18 minutes
12 mL DMSO	Very-High Boil	15 minutes
12 mL DMF	Hi-Boil	7 minutes
12 mL Water	Aqueous	16 minutes
12 mL Ethanol	Volatile	9 minutes
12 mL DCM	High-Volatile	4 minutes
12 mL 50% ACN in Water	HPLC	15 minutes
20 mL Vials		
8 mL Water	Aqueous	8 minutes
8 mL Ethanol	Volatile	5 minutes
8 mL 25% Piperidine in DMF	mxd Vol + HBP	7 minute

Typical evaporation times (including final dry) using default settings.

Vial Dimension Limits



Ordering Information

Part No.	Description
Evaporation Systems	
V10-2XX	V-10 Touch System
V10-2SC	V-10 Touch System with Solvent Manager and Automation
Configuration Upgrades	
414865	V-10 Solvent Manager Upgrade
410876	V-10 Automation Upgrade
411816	Gilson Liquid Handler GX271 - V-10
Accessories	
415082	Step-up Transformer 100–230 VAC
413149	Vacuum Pump Vacuubrand RZ 2.5, EU 230 V
412905	Vacuum Pump Vacuubrand RZ 2.5, US 120 V
413146	Vacuum pump External Connection Kit
411181	Carousel Vial Holder 30/20 mL Vials
411182	Carousel Vial Holder 4 mL A-type HPLC Vials 14.5 mm Diameter (TYPE A/B)
411183	Carousel Vial Holder 4 mL 16.5 mm diameter (Type C)
411985	Carousel Vial Holder 16 mL Tall Vials 20.7 mm Diameter
410647	4 mL Vial Upper Adapter Kit 5 pcs (Type A), 8.5 mm Neck Inner Diameter
410648	4 mL Vial Upper Adapter Kit 5 pcs (Type B), 11.1 mm Neck Inner Diameter - V10
410649	4 mL Vial Upper Adapter Kit 5 pcs (Type C), 12.0 mm Neck Inner Diameter - V10
412867	16 mL Upper Head Adapter Assembly
411031	4 mL Vial Lower Adapter Kit 2 pcs (Type A), 14.8 mm Vial Diameter
411032	4 mL Vial Lower Adapter Kit 2 pcs (Type B), 14.1 mm diameter shoulderless vial (2/bag)
411033	4 mL Vial Lower Adapter Kit 2 pcs (Type C), 16.3 mm diameter semi-shouldered vial (2/bag)
411999	8 mL Vial Lower Adapter Kit 2 pcs (Type D), 17.2 mm Vial Diameter
412000	16 mL Vial Lower Adapter 2 pcs, (Type E), 20.7 mm Diameter
410790	Kit, Upper Vial Face Seal, 10 Pack
412866	Kit, Face Seal 16 mL, 10 pcs
413210	V-10 facesal, Chemraz

Service

SER-V10T-SAP	Service Agreement - Priority - V-10 Touch Evaporator
SER-V10-FYMP	First Year Maintenance Package Priority - V-10 Evaporator

Your Complete Partner for Effective Chemistry

Biotage is a worldwide supplier of instruments and accessories designed to facilitate the work of laboratory and process chemists. 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 both analytical, organic and process chemistry, we can offer the widest range of solutions available on the market.

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