



# PREPLINC

## Concentration Solutions Catalog



2011 Edition

**J2 SCIENTIFIC**

## Automating Sample Preparation with J2 Scientific and the PrepLinc System

At **J2 Scientific** it is our goal to make your sample prep lab operate more efficiently by providing the most cutting edge, robust and cost effective automated equipment on the market. In creating the **PrepLinc™ Platform** we were striving to design a system that is scalable for the growing lab, is as flexible as necessary for the lab that does a bit of everything and is still simple to maintain and operate. We believe the PrepLinc embodies all these things.

With modules available for automating Solid Phase Extraction, Gel Permeation Chromatography Cleanup and Concentration the PrepLinc can take the sample after extraction and process through to analysis. Combine SPE with Concentration, combine GPC Cleanup with SPE, even concentrate a sample between two processes. The combination of these technologies gives the user flexibility and options to significantly decrease sample handling while increasing data quality and productivity. High powered software utilizes the features of each module to make the PrepLinc™ a complete sample prep solution.

**In this catalog** you will find the details about our offerings for  
**Concentration Solutions**

For more information about other PrepLinc products ask your sales representative for the following catalogs:

Solid Phase Extraction Solutions  
GPC Cleanup Solutions  
SPE Water Extraction Solutions

## AccuVap EVS™ System

The **AccuVap EVS™ Concentration System** is a fully automated way to concentrate offline samples ranging in volume from a few to hundreds of milliliters of solvent. The AccuVap EVS™ can replace more manual evaporation methods like Kuderna-Danish, rotary evaporation and other semi-automated techniques. The AccuVap EVS™ performs solvent exchange and quantitative transfer.

A new way to concentrate! The AccuVap EVS™ combines gentle heat and vacuum to concentrate large volumes of solvent. Precise control devices monitor solvent volume, temperature and vacuum to ensure controlled evaporation.

- Concentrate samples after soxhlet, accelerated solvent and liquid/liquid extractions.
- Full automation for concentrating overnight.
- Replaces rotary evaporation, Kuderna-Danish & most semi-automated techniques.
- Delivers sample to GC vial ready for analysis.



### Evaporation Chamber

Enclosed evaporation chamber with three programmable zones for heat and vacuum.

### Vacuum Control

Control vacuum settings for each chamber zone, and for each stage to fine tune evaporation of solvent mixes

### Endpoint

Choose momentary dryness or adjustable endpoint as the concentration endpoint. Add a standard or a keeper solution.

### Exchanges

Program multiple solvent exchanges, adjusting heat and vacuum as the mix of solvent changes.

### Transfer

Transfer portion of sample if quantitated in chamber or entire sample with rinses. Air purge of transfer lines.

### Ordering

#### PrepLinc AccuVap EVS™ Concentration System

**PL9230\*** PrepLinc AccuVap EVS System, 115V (order PL9231 for 220V)  
Includes AccuVap EVS module, AS4 Autosampler with Hub control module and probe wash station

**PL9991\*** PrepLinc Software Full License, Included in price (Details on Page 5)

**PS022X\*** Surge Protector, 6pos, Laboratory Grade, 15 amp

**Install\*** Onsite Installation & Training

**Options** See page 6

**Trays** See page 8

\*required

## AccuVap Inline & FLX Models

### Adding an **AccuVap™ Concentration**

**Module** to your PrepLinc™ System eliminates the need for a separate bulk evaporation step when combined with processes like SPE or GPC Cleanup. Choose from two models: AccuVap™ Inline or AccuVap™ FLX. Both offer concentration of solvent directly from another process (GPC or SPE), but the FLX also allows offline concentration.

Unlike other semi-automated evaporation systems, the AccuVap™ will automatically solvent exchange and quantitatively transfer your sample to a GC vial ready for analysis. Powerful software controls heat and vacuum at every stage of the process to protect analyte recoveries. Programmable heated rinses eliminate carryover.

- Save time and improve results.
- Free up lab technicians and decrease sample handling.
- Adding the AccuVap™ to your PrepLinc™ system will really automate your world!



#### Evaporation Chamber

Enclosed evaporation chamber with three programmable zones for heat and vacuum.

#### Vacuum Control

Control vacuum settings for each chamber zone, and for each stage to fine tune evaporation of solvent mixes

#### Endpoint

Choose momentary dryness or adjustable endpoint as the concentration endpoint. Add a standard or a keeper solution.

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Program multiple solvent exchanges, adjusting heat and vacuum as the mix of solvent changes.

#### Transfer

Transfer portion of sample if quantitated in chamber or entire sample with rinses. Air purge of transfer lines.

### Ordering

#### PrepLinc AccuVap Inline or FLX Concentration Modules

*Require purchase of PrepLinc GPC System, SPEi System or LVi Water Extraction System*

**PL9200** PrepLinc AccuVap Inline Module, 115V (order PL9201 for 220V)  
Includes AccuVap Inline module, vacuum pump and PL transfer valve for integration with existing PrepLinc modules

**PL9220** PrepLinc AccuVap FLX Module, 115V (order PL9221 for 220V)  
Includes AccuVap FLX module, vacuum pump and PL transfer valve for integration with existing PrepLinc modules

**PS022X\*** Surge Protector, 6pos, Laboratory Grade, 15 amp

**Install\*** Onsite Installation & Training

**Options** See page 6

**Trays** See page 8

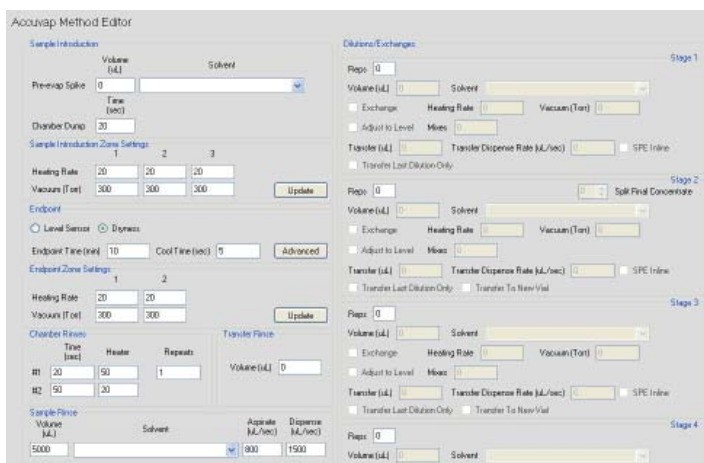
\*required

Refer to the PrepLinc GPC Cleanup, SPE and Water Extraction Solutions Catalogs for Information on Ordering other PrepLinc Modules for use with the AccuVap Inline & FLX Modules

## PrepLinc Software

Powerful software is what makes the AccuVap rise above the competition. A Windows-based program, it is easy to install, operate and update. Programming for all PrepLinc modules is included with the software but you only see information and options specific to the modules installed with your system. The ability to save an endless number of methods, sequences and reports makes compliance a snap.

### AccuVap EVS™ Method Editor



- The PrepLinc™ AccuVap Method Editor is full-featured, yet intuitive.
- Parameters for each stage of the concentration process are clearly separated.
- Solvents are programmed at software setup for easy recall when programming methods.
- Heating rates and vacuum settings are adjustable on the fly for quick method development.

### PrepLinc™ Sequence Editor

- Sequences are not limited to one method, one module or one “Linc” method
- User can customize sequence as laboratory flow dictates
- Choose sample and collect tray and location for first sample; sequentially copies for additional samples, but can be edited for unique situations
- Choose priority samples
- Re-arrange, add and delete unprocessed samples after run has begun
- Change method and tray information for unprocessed samples after run has begun

## Instrument Services

Decrease the time to get your system fully integrated into your lab routine and protect your investment long-term with these recommended service from J2 Scientific

Installation/Training  
Extended Warranty  
Service Contracts

Highly recommended on each automated system; at your site; includes training  
Extends the standard 1 year manufacturers warranty an extra year  
Protect your investment from year 3 and beyond; includes discounts on parts and onsite labor. Labor at J2 is free!

PM/Service Visit

Pre-purchase Preventive Maintenance visits to ensure your systems performance. Substitute the PM visit for a service call, if necessary.

**Call Customer Care for an Quote/Estimate for any of the above.**

## AccuVap Options

- AV030**      **Kit, Internal Chamber Temperature Probe** - Monitors the actual temperature of the solvent in the chamber at all times; program limits in the PrepLinc software.
- AV050**      **Kit, Conc. Only Upgrade, AV** - Kit to upgrade an existing AccuVap Inline to a FLX model

### Solvent Recovery Module and Chiller

- PL7000**      **Solvent Recovery Module** for recondensing solvent vapor from the AccuVap concentration process for safe and proper disposal. Recovers up to 90% of solvent. Choose a cap liner at no charge.
- BV2005\_8      Cap Insert for immersion chiller, 4 - 8 mm wand
- BV2005\_35      Cap Insert for immersion chiller, 17 - 35 mm wand
- BV2005\_16      Cap Insert for Immersion chiller, 9 - 16 mm wand
- BV2005\_RCX      Cap Insert for Recirculating chiller



- CH0015      Chiller, Immersion, 140W @ -30C, 115V
- CH0016      Chiller, Immersion, 140W @ -30°C, 240V

#### Providing your own chiller

The chillers offered above meet the following specifications. If the user will provide their own chiller, it must also meet these specifications. For information about using a recirculating chiller, contact your sales representative.

- |                    |   |
|--------------------|---|
| Chiller type:      | Immersion   |
| Cooling Capacity:  | 140W at -30°C, 975W at 20°C                               |
| Temperature Range: | -35 to 40°C   |
| Probe Dimensions:  | Max length = 12" (300 mm)<br>Max diameter = 2.25" (55 mm) |
- \*A larger probe will not fit in Solvent Recovery Module

### PrepLinc System Options

- PC-KT-IPC-01      **Internal PC** for PrepLinc Software Operation; mounts in PrepLinc HUB module to save benchspace; includes a 17" (minimum) flat-panel monitor, keyboard and mouse. Fully networkable.
- PC-KT-DPC-01      **Desktop PC** for PrepLinc Software Operation; includes CPU, flat-panel monitor (17" minimum), key board and mouse.
- SP600      **Solvent Degasser**, Inline, 4-channel; may be necessary if lab elevation is above 3000ft and/or lab temperature is unstable and reaches temperatures above 70 degrees F.
- PL0800      **Accessory Tray**; mounts on top of autosampler to provided additional space for module and solvent bottles.
- PS3001X      **Uninterruptible Power Supply** for PrepLinc with Smart Shutdown control, 2200VA, 110V
- AK015      **PrepLinc Tubing and Fitting Kit**; a variety of extra supplies for your system
- PL-Manuals      **Manual Set**, Hardcopy in binder; Hardware Installation and Software Installation & Operation Users Guides for all PrepLinc Modules and Options. Electronic copies of manuals are included with all PrepLinc software at no charge.
- PL-Toolkit      **User Tool Kit**, set of tools necessary for basic maintenance on any PrepLinc Module

### Recommended Spare Parts

- OR223      Gasket, AccuVap Chamber, Sealing; recommend 1
- BV8463      Syringe, 5mL, ZDV; recommend 1
- AV088      Evaporation Chamber, Standard, 1.0 mL final volume; recommend 1

## Trays and Glassware

### PrepLinc Trays

The user should select trays to hold sample vials and trays to hold collect vials as required per their method. The autosampler can sample out of or collect into any of the vials that are recommended for the trays listed below. Vials are determined based on the volume of the sample and collect fractions. It can also be helpful to choose a sample tray that holds a vial from the prep process prior to GPC Cleanup and to choose a collect tray that holds a vial that will be used in the next prep process after GPC Cleanup (usually concentration).

Part No.	Description	Vials offered by J2 Scientific
RK1401	Tray, PL, 16mm OD, 60-Position	for use with BV16100T-CS, BV16114-CS and BV16150-CS
RK1402	Tray, PL, 25mm OD, 30-Position	for use with BV25200-PK and BV25140
RK1404	Tray, PL, 38mm OD, 14-Position	for use with BV38200 and BV38140
RK1406	Tray, PL, TurboVap 200mL Tube, 10-Position	for use with BV45817X-Ea
RK1407	Tray, PL, TurboVap 60mL Tube, 24-Position	
RK1408	Tray, PL, 50mL Centrifuge Tube, Tapered, 24-Position	
RK1409	Tray, PL, 60mm OD, 24-Position	for use with BV60140
RK1410	Tray, PL, Boiling Flask, 250mL, 29mm Joint, 6-Position	
RK1411	Tray, PL, Boiling Flask, 1 Liter, 29mm Joint, 4-Position	
RK1412	Tray, PL, Boiling Flask, 1 Liter, 32mm Joint, 4-Position	
RK1413	Tray, PL, Boiling Flask, 250mL, 32mm Joint, 6-Position	
RK1414	Tray, PL, 17mm OD, 65-Position	
RK1415	Tray, PL, Round Bottle, 250mL, 8-Position	for use with BV044
RK1416	Tray, PL, Round Bottle, 125mL, 10-Position	
RK1351	Tray, PL, 1 Liter Bottle, 3-Position	
RK1352	Tray, PL, 1 Liter Bottle, 2-Position	
RK1353	Tray, PL, IChem, 27-Position	for use with BV060
RK1332	Tray & Stand, GC Vial, 36-Position	for use with BV023 and BV023-A
RK1281	Tray & Stand, GC Vial, 72-Position	for use with BV023 and BV023-A

### Vials/Glassware

BV16100T-CS	Vial, Disposable, Threaded, 16 x 100	Case of 1000
BV16114-CS	Vial, 16x114mm, Tapered	Case of 125
BV16150-CS	Vial, 16x150mm Culture Tube	Case of 1000
BV20125-CS	Sample Vial, 20x125mm	Case of 500
BV25200-PK	Vial, 25 x 200 mm	Pack of 48
BV25140	Vial, 25 x 140 mm, Conical	Each
BV38200	Vial, 38x200mm, Collect	Each
BV38140	Vial, 38 x 140 mm, Conical	Each
BV45817X-EA	TurboVap Tube, 200mL, 1mL tip	Each
BV60140	Vial, 60 x 140 mm, 300mL, Conical	Each
BV044	Bottle, 125 mL, Amber	Pack of 12
BV023	Vial, 2ml, 12 X 32 mm, Snap Ring	Pack of 100
BV023-A	Vial, 2ml, 12x32 mm, Snap, Amber	Pack of 100
BV060	Vial, I-Chem, 60mL	Case of 72
BV1L	Bottle, Glass, 1 Liter, Safety Coated	Each
BV960mL	Bottle, Boston Round, 960 mL	Case of 12

### Caps/Septa

BV016	Cap, Open Top, 16mm, Pack of 144	for use with BV16100T-CS, BV16114-CS, BV16150-CS
BV020	Cap, Open Top, 20mm, Pack of 144	for use with BV20125-CS
BV022	Cap, Snap-On, 2mL, Pack of 100	for use with BV023 & BV023-A
BV026	Cap, Snap-On, Pre-Slit, 2mL, Pack of 100	for use with BV023 & BV023-A
BV015	Septa, PTFE/Silicone, 13mm, Pack of 100	for use with BV016
BV016T-PK	Septa, PTFE Disc, 13mm, Pack of 100	for use with BV016
BV021T-PK	Septa, PTFE Disc, 20mm, Pack of 100	for use with BV020
BV024T-PK	Septa PTFE/Silicone, 24mm Cap, Pack of 100	for BV060 and BV044
BV007	Cap with Probe Hole, 38mm	for use with BV38200 & BV38140
BV008	Cap with Probe Hole, 25mm	for use with BV25200 & BV25140
BV009	Cap with Probe Hole, 60mm	for use with BV60140

## Contact J2 Scientific

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