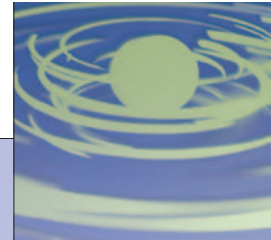


Centrifugal Evaporators



Thermo Electron

Order by phone > 01342 826836 Order on-line > www.ecomcat.co.uk
 Order by fax > 01342 826771 Website > www.jencons.co.uk

Savant, DNA SpeedVac® Vacuum Concentration Systems

Thermo Electron offers a full line of centrifugal vacuum concentrators to assist in any application requiring solvent removal. The Savant SpeedVac® Systems are available as fully integrated compact systems or can be customised to your specific application with only the components you require. Please contact our Technical Office on 01342 826836 to discuss your requirements.

DNA120 Enhanced Performance SpeedVac® System

The DNA120 is a high performance DNA SpeedVac® concentrator offering rapid and efficient concentration and drying of small-volume DNA/RNA samples.

The DNA120 system comprises an enhanced performance DNA SpeedVac® concentrator with an oil-free vacuum source and features three drying rates and dual digital timers. It is a benchtop system recommended for processing of samples in aqueous solvents.

- Corrosion resistant, TEFLON® coated chamber provides years of lasting service
- Integrated and compact design
- Quiet operation
- Large, easy to read LED display
- Dual, digital timers for independent control of heat and run times
- Choice of three drying rates
- Oil-free, low maintenance vacuum pump (ETFE coated diaphragm pump)
- Many optional rotors available including: 36x1.5ml, 72x0.5ml tubes and 2 shallow-well microplates

ISS110 High Capacity SpeedVac® System

The ISS110 is a high capacity DNA SpeedVac® designed for efficient processing of large batches of DNA/RNA samples.

The ISS110 system comprises a high capacity DNA SpeedVac® with low, medium and high heating (ambient, 43°C, 65°C). Supplied with a 4L refrigerated vapour trap and an oil-free vacuum source. It is a benchtop system recommended for processing of samples in aqueous solvents, non-aggressive solvents (methanol, ethanol and acetonitrile).

- Can process up to 120x1.5ml microcentrifuge tubes at one time with optional rotor RH120-11 and 2 shallow-well microplates with optional RH2MP rotor
- 4 litre, -50°C refrigerated vapour trap
- Three adjustable temperature setting (ambient, 43°C, 65°C)
- Oil-free, low maintenance vacuum pump (ETFE coated diaphragm pump)
- Many optional rotors allow the processing of DNA samples in tubes, vial and microplates. Sample sizes from: 0.4ml to 100ml

Specifications

Model	DNA120	ISS110
Timer	5mins to 9hrs55mins, hold*	N/A
Rotor capacity**	36x 1.5ml tubes	64x 1.5–2.0ml tubes
Maximum tube capacity	72x0.5ml	120x1.5ml
Voltage, V/Hz	230/50	230/50
Dimensions (h x w x d), mm	290x290x630	380x620x660
Weight, kg	39	69
Vapour Trap		
Operating temperature, °C	N/A	-50
Capacity, L	N/A	4
Temperature, °C	N/A	Off, ambient, 43, 65
Pump		
Type	Oil-free ETFE diaphragm (both models)	
Capacity, litres/min	31	31
Maximum vacuum, torr	>10 (9 mbar)	>10 (9 mbar)

* Two timers; one for run time and one for heat time

** For rotor supplied. Other rotors are available, please see next page and page 193.

195-218

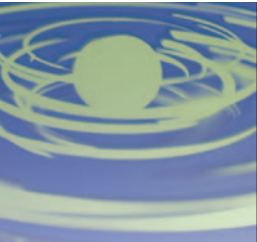
New



195-219

New





Centrifugal Evaporators

Order by phone > 01342 826836 Order on-line > www.ecomcat.co.uk
Order by fax > 01342 826771 Website > www.jencons.co.uk

Thermo Electron

Savant, DNA SpeedVac® Vacuum Concentration Systems, continued...

Cat. No.	Description	Price
195-218	DNA120 Enhanced performance DNA SpeedVac® system consisting of SpeedVac® concentrator with timer, vacuum pump and RD36 rotor	POA
195-219	ISS110 High capacity DNA SpeedVac® system consisting of SpeedVac® concentrator, vacuum pump, refrigerated trap, RH64-11 rotor, 2x GCF400 glass flasks, 2x insulating covers and 1x FC400 flask cover	POA

CryoCool® heat transfer fluid is required for proper operation and running of all refrigerated vapour traps. Please order this separately, see below.

The DNA120OP is also available, designed for synthetic oligos. Please contact our Technical Office on 01342 826836 for details.

Accessories

Cat. No.	Description	Price
195-202	CryoCool® heat transfer liquid, 1 litre	POA
195-203	CryoCool® heat transfer liquid, 5 litres	POA
195-232	GCF400, Glass condensation flask, use with 4L refrigerated vapour traps	POA
195-233	FC400, Flask cover	POA
Rotors for DNA120		
195-220	RD24, Rotor for 24x1.5ml tubes	POA
195-222	RD36, Rotor for 36x1.5ml tubes	POA
195-221	RD48, Rotor for 48x0.5ml tubes	POA
195-223	RD72, Rotor for 72x0.5ml tubes	POA
195-224	RD2MP, Rotor for 2 shallow-well plates	POA

Other rotors are available for the ISS110 SpeedVac® system, please see page 193.

For details on other accessories including chemical trap kits, please contact our Technical Office on 01342 826836.

New

195-225



Savant, Integrated SPD2010 SpeedVac® Vacuum Concentration System

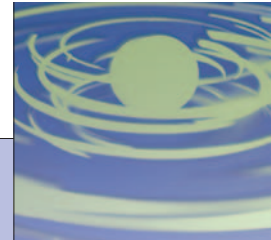
The SPD2010 is a benchtop system supplied complete with SpeedVac® concentrator, oil-free vacuum pump, vacuum gauge and refrigerated vapour trap. It features microprocessor control with digital displays for viewing and setting all parameters, including time, temperature and vacuum.

The SPD2010 also includes dual vacuum control for independent control of ramping rate and vacuum level. This means that the vacuum level can be set to optimise drying times and eliminate bumping of different solvent mixtures.

It is a benchtop system recommended for processing of samples in aqueous solvents, non-aggressive solvents (methanol, ethanol and acetonitrile) or for use with acid concentrations less than 1.0N (TFA, HCl, nitric acid).

- Easily programmable
- All-in-one design makes set-up and installation easy
- Vacuum control for vacuum ramping and ultimate level setting to optimise drying times and to eliminate bumping of different solvent mixtures
- 4 litre, -50°C refrigerated vapour trap
- Dual, digital timers for independent control of heat and run times
- Oil-free, low maintenance vacuum pump (ETFE coated diaphragm pump)
- TEFLON® coated chamber providing high chemical resistance and easy clean-up
- Radiant glass cover for chemical resistance and additional heat source
- GCF400 wide mouth condensation flask makes it quick and easy to dispose of solvents
- 'Plug-in-and-use' simplicity with pre-connected tubing
- Many optional rotors available with sample sizes from: 0.4ml to 500ml

Centrifugal Evaporators



Thermo Electron

Order by phone > 01342 826836 Order on-line > www.ecomcat.co.uk
 Order by fax > 01342 826771 Website > www.jencons.co.uk

Savant, Integrated SPD2010 SpeedVac® Vacuum Concentration System, continued...

195-225

New

Specification

Timer*	1 min to 9 hrs 59mins, continuous
Rotor capacity**	200x 1.5–2.0ml or 118x 13x100mm tubes
Maximum tube capacity	200x 12mmx75mm tubes
Voltage, V/Hz	230/50
Dimensions (hxxwxd), mm	470x770x690
Weight, kg	84
Vapour Trap	
Operating temperature, °C	-50
Capacity, L	4
Temperature, °C	Off, 45–80 in 5°C increments
Radiant lamp glass cover	On/off, slaved to heat timer
Vacuum control rate	1 to 5
Ultimate vacuum level setting, torr	30.0 to 5.1 (40 to 6.8 mbar)
Pump	
Type	Oil-free ETFE diaphragm
Capacity, litres/min	30
Maximum vacuum, torr	7 (9 mbar)

* Two timers; one for run time and one for heat time.

** For rotor supplied. Other rotors are available, please see page 193.

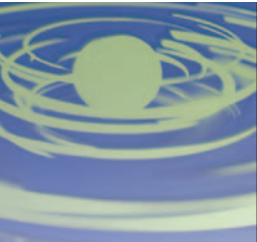


Cat. No.	Description	Price
195-225	SPD2010 Integrated SpeedVac® System consisting of SpeedVac® concentrator, vacuum pump, refrigerated trap, RH200-12 rotor, 2x GCF400 glass flasks, 2x insulating covers and 1x FC400 flask cover	POA

CryoCool® heat transfer fluid is required for proper operation and running of all refrigerated vapour traps. Please order this separately, see below.

Accessories

Cat. No.	Description	Price
195-202	CryoCool® heat transfer liquid, 1 litre	POA
195-203	CryoCool® heat transfer liquid, 5 litres	POA
195-232	GCF400, Glass condensation flask, use with 4L refrigerated vapour traps	POA
195-233	FC400, Flask cover	POA



Centrifugal Evaporators

Order by phone > 01342 826836 Order on-line > www.ecomcat.co.uk
Order by fax > 01342 826771 Website > www.jencons.co.uk

Thermo Electron

New

195-226

Savant, SpeedVac® Concentrators

Small Capacity SpeedVac® Concentrators

Thermo's Savant SPD Series SpeedVac® concentrators are ideal for the concentration or drying of biological and non-biological materials in all kinds of solvents. Available in 3 models which all provide reliability and versatility, each unit has a coated TEFLON® chamber and the SPD131DDA also has TEFLON® valves and tubing which make it resistant to aggressive solvents. Connect a SpeedVac® to a cold trap and vacuum source to create a complete concentrating/drying system.

SPD111V SpeedVac® Concentrator

Basic molecular biology model with increased microplate capacity. It is suitable for processing samples in aqueous solvents and non-aggressive solvents (methanol, ethanol and acetonitrile).

- Compact footprint
- Time/temperature display incorporating membrane touch pad switches
- Increased chamber size to accommodate 6 shallow-well or 2 deep-well microplates
- Built in automatic bleeder valve
- Variable drying rate
- Heat is adjustable from 35 to 80°C
- Safety coverlock to protect the user
- Radiant cover for accelerated evaporation (optional)
- Manual/auto timed run
- Sample size: 0.4ml to 100ml, 2 deep-well microplates, 6 shallow-well microplates and up to 4x tubes 150mm high (using optional rotors)

SPD121P SpeedVac® Concentrator

Enhanced evaporation model suitable for organics with radiant lights in cover for faster drying. It is suitable for processing samples in aqueous solvents, non-aggressive solvents (methanol, ethanol and acetonitrile) or for use with acid concentrations less than 1.0N (TFA, HCl, nitric acid). The SPD121P concentrator shares the features listed above for model SPD111V, plus:

- Two valve manifold
- Built-in vacuum gauge and vacuum display
- End point mode terminates run when pre-set vacuum level is reached
- Digital display of vacuum, temperature and time
- TEFLON® plumbing and tubing
- Radiant glass cover improves drying times by applying radiant heat to samples
- Time/vacuum run

SPD131DDA SpeedVac® Concentrator

Acid resistant model, for maximum resistance to strong acids, bases and aggressive solvents such as TFA, DCM and DMSO. It is ideal for use in combinatorial chemistry. The SPD131DDA concentrator shares the features listed above for models SPD111V and SPD121P, plus:

- Radiant lamps in chamber reduce drying times
- Heated lid for processing high boiling solvents (DMSO, DMF)
- Wider vapour port and tubing for enhanced vapour throughput - reducing drying times
- Adjustable vacuum level for preventing bumping of difficult solvent mixtures and optimising drying times
- Heat is adjustable from 45 to 80°C

High Capacity SpeedVac® Concentrators

SC210A High Capacity SpeedVac® Concentrator

High capacity SpeedVac® concentrator ideal for aqueous and organic solvents. Suitable for up to 118x 13x100mm tubes or 12x shallow-well microplates.

- Corrosion resistant, TEFLON® coated chamber provides years of lasting service
- Automatic bleeder valve automatically provides vacuum at the beginning of a run and bleeds chamber to atmospheric pressure at the end of a run
- Plexiglass® cover
- Radiant cover maximises evaporation/sublimation rates (optional)
- Three adjustable temperature settings (ambient, 43°C, 65°C)
- Many optional rotors available including: 8x deep-well microplates, 12x shallow-well microplates and 18x tubes 150mm high



New

195-227



New

195-228

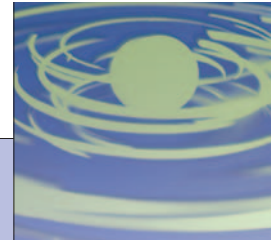


New

195-229



Centrifugal Evaporators



Thermo Electron

Order by phone > 01342 826836 Order on-line > www.ecomcat.co.uk
Order by fax > 01342 826771 Website > www.jencons.co.uk

Savant, SpeedVac® Concentrators, continued...

Specifications

Model	SPD111V	SPD121P	SPD131DDA	SC210A
Bleeder valve	Yes, automatic	Yes, dual	Yes, dual	Yes, automatic
Temperature, °C	Off, 35-80 in 5°C increments	Off, 35-80 in 5°C increments	Off, 45-80 in 5°C increments	Off, ambient, 43, 65
Timer	1 min to 9 hrs 59 mins, continuous*	1 min to 9 hrs 59 mins, continuous*	1 min to 9 hrs 59 mins, continuous*	N/A
Standard cover	Glass**	Radiant glass	Heated glass	Plexiglass***
Infrared chamber lamps	N/A	N/A	2	N/A
Vacuum control	N/A	0.1 to 20 torr	0.1 to 20 torr	N/A
Exhaust port size	Standard	Standard	Oversized	Standard
Magnetic assembly	UMASPD	UMASPD	SUMAXSPD	UMA200
Voltage, V/Hz	230/50	230/50	230/50	230/50
Dimensions (hwxwd), mm	330x360x450	330x360x450	330x360x450	460x450x620
Weight, kg	17	20	20	46

* Two timers; one for run time and one for heat time.

** Radiant glass covers optional

Cat. No.	Description	Price
195-226	SPD111V SpeedVac® vacuum concentrator, supplied without rotor*	POA
195-227	SPD121P SpeedVac® vacuum concentrator, supplied without rotor*	POA
195-228	SPD131DDA SpeedVac® vacuum concentrator, supplied without rotor*	POA
195-229	SC210A High Capacity SpeedVac® vacuum concentrator, supplied without rotor*	POA

* A rotor is required, but not supplied. Please order this separately, see below.

Connect a SpeedVac® to a cold trap and vacuum source to create a complete concentrating/drying system. See page 194 for refrigerated vapour traps and page 195 for Universal Vacuum Systems (vacuum source and refrigerated vapour trap in one).

Sample concentrators can be used with either oil vacuum pumps for example Edwards RV5 (see page 757), Vacuubrand RZ6 (see page 764) or KNF membrane pumps e.g. N842.3FT18 (see page 761). This decision is normally determined by the boiling points of the solvent samples; high boiling point solvents normally require a deep vacuum (oil pump).

For details on larger models and accessories (optional covers and tubing kits) please contact our Technical Office on 01342 826836.

Rotor Selection Guide

Cat. No.	Model	Working volume, ml	No. of tubes	Description	Suitable for:	Price
195-209	RH40-11	1.2-1.6	40	1.5-2.0ml microcentrifuge tube	ISS110, SPD111V, SPD121P, SPD131DDA	POA
195-210	RH64-11	1.2-1.6	64	1.5-2.0ml microcentrifuge tube	ISS110, SPD111V, SPD121P, SPD131DDA	POA
195-211	RH120-11	1.2-1.6	120	1.5-2.0ml microcentrifuge tube	ISS110, SPD111V, SPD121P, SPD131DDA	POA
195-212	RH200-12*	8	118	13x100mm	SC210A, SPD2010	POA
195-213	RH100-8	0.3	100	0.5ml microcentrifuge tube	ISS110, SPD111V, SPD121P, SPD131DDA	POA
195-214	RH6-50	40	6	50ml conical (28x115mm)	ISS110, SPD111V, SPD121P, SPD131DDA	POA
195-215	RH12-29	40	12*	50ml conical (28x115mm)	SC210A, SPD2010	POA
195-216	RH2MP	0.3	2 plates**	Multiwell plate (shallow)	ISS110, SPD111V, SPD121P, SPD131DDA	POA
195-217	MPTR12-210	0.3	12 plates	Multiwell plate (shallow)	SC210A, SPD2010	POA

* Will accept either 118x 12x100mm tubes or 200x 1.5/2.0ml (12x75mm) microcentrifuge tubes.

** Larger capacity rotors available.

Above we have listed a only small number of the rotors available. We can also supply rotors for the following tube types:

Glass and plastic tubes: 6x50mm (0.4ml), 13x100mm, 12x75mm (1.5-2.0ml), 13x100, 18x125mm, 16x125mm, 17x120mm (15ml conical), 17.5x102mm (15ml Corex), 18x100mm, 17x95mm, 16x100mm, 18x150mm, 25x105mm (30ml Corex), 28x115mm (50ml conical).

Centrifuge tubes: 15ml conical (16x120mm and 17x120mm)

Flasks: 50ml, 100ml, 250ml, 500ml pear-shaped flasks and 100ml recovery flasks

Vials: 12x40mm, 1 dram vials (4ml), 20x60mm, 18x52mm and 28x60mm scintillation vials

Bottles: 250ml centrifuge bottles

Microplates: Deep-well microplates

Please contact our Technical Office on 01342 826836 for details.



Centrifugal Evaporators

Order by phone ▶ 01342 826836 Order on-line ▶ www.ecomcat.co.uk
Order by fax ▶ 01342 826771 Website ▶ www.jencons.co.uk

Thermo Electron

New

195-230



Savant, RVT400 and RVT4104 Refrigerated Vapour Traps

Safely recovering the solvents and reducing emissions of hazardous chemicals is only one of the benefits gained from using a refrigerated vapour trap. It also improves the efficiency of your concentration by creating a greater thermal difference between your concentrator and the environment. Vapours will more easily condense in a lower temperature environment.

Traps can be attached together in-line to trap specific solvents - Please contact our Technical Office for details on 01342 826836.

The RVT400 refrigerated vapour trap is designed for use with organic solvents and aqueous solutions. Whereas, the RVT4104 unit is designed for use with low-boiling solvents e.g. Methylene Chloride, Acetone, Hexane and Chloroform. It is also suitable for acids e.g. TFA and HCl. Model RVT4104 features a digital temperature display.

- Efficiently trap and recover organic solvents for proper waste disposal and help protect the environment
- Convenient GCF400 glass condensation flask allows for quick and easy removal of solvents, eliminating the need to wait for defrosting and draining
- Universal design allows hook-up to any instrument requiring solvent collection and trapping
- Traps can be easily placed in-line for trapping specific solvents based upon their condensation properties
- Refrigerated vapour traps are needed to contain solvents generated by concentrating, rotary evaporation, nitrogen blowdown or other extraction methods.

Specifications

Model	RVT400	RVT4104
Temperature, °C	-50	-104
Temperature display	N/A	LED
Capacity, L	4	4
Voltage	230V, 50/60Hz	230V, 50/60Hz
Dimensions (hwxwd), mm	310x350x600	330x510x660
Weight, kg	32	47

Cat. No.	Description	Price
195-230	RVT400 Refrigerated vapour trap supplied with 2x GCF400 glass flasks, 2x insulating covers and 1x FC400 flask cover	POA
195-231	RVT4104 Refrigerated vapour trap supplied with 2x GCF400 glass flasks, 2x insulating covers and 1x FC400 flask cover	POA

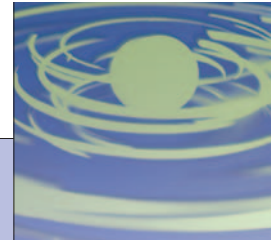
CryoCool® heat transfer fluid is required for proper operation and running of all refrigerated vapour traps. Please order this separately, see below.

Other models are available (-5°C) for use with high boiling solvents (DMSO, DMF). Please contact our Technical Office on 01342 826836 for details.

Accessories

Cat. No.	Description	Price
195-202	CryoCool® heat transfer liquid, 1 litre	POA
195-203	CryoCool® heat transfer liquid, 5 litres	POA
195-232	GCF400, Glass condensation flask, use with 4L refrigerated vapour traps	POA
195-233	FC400, Flask cover	POA
195-206	Universal tubing package (PVC) for SPD111V, SC210A. Connects these concentrators to any RVT refrigerated trap or UVS system.	POA
195-207	Universal tubing package (TEFLON®) for SPD121P. Connects this concentrator to any RVT refrigerated trap or UVS system.	POA
195-208	Universal tubing package (TEFLON®) for SPD131DDA. Connects this concentrator to any RVT refrigerated trap or UVS system.	POA

Centrifugal Evaporators



Thermo Electron

Order by phone > 01342 826836 Order on-line > www.ecomcat.co.uk
 Order by fax > 01342 826771 Website > www.jencons.co.uk

Savant, UVS400A and UVS800DDA Universal Vacuum Systems

The Universal Vacuum System (UVS) is a combined oil-free vacuum source and solvent recovery system, in a single integrated unit with a small footprint. It simplifies sample preparation and setup by combining the vacuum source and the refrigerated vapour trap into a single instrument. The easy-to-use wide mouth glass condensation flask allows safe handling of recovery solvents. This unit can be connected to any of the concentrators to provide a complete SpeedVac® system.

- Low maintenance, oil-free and corrosion resistant system
- Wide mouth glass condensation flask with self-sealing cover
- Designed for use with concentrators, gel dryers and any operation requiring vacuum and solvent recovery
- Single stage refrigeration system
- Post-trap (ANT100) for collecting solvents or neutralising vapours (supplied with UVS800DDA, optional for UVS400A)
- Optional chemical trap (DTK120R) may be added to absorb volatile radioactivity and residual vapours

In addition to the features above, the UVS800DDA also has a four-stage oil-free pump and TEFLON® tubing and vapour path.

Specifications

Model	UVS400A*	UVS800DDA
Pump type	Oil-free, 2 headed, ETFE diaphragm	Oil-free, 4 headed, ETFE/PFA diaphragm
Pump capacity, litres/min	30	30
Pump, ultimate level, torr	<10 (<13.3mbar)	<0.6 (<0.75mbar)
Refrigerated trap temperature, °C	-50	-50
Refrigerated trap capacity, L	4	4
Solvent recovery enhancement	VaporNet®	VaporNet®
Voltage	230V, 50Hz	230V, 50Hz
Dimensions (hwxwd), mm	450x350x600	450x350x600
Weight, kg	51	57

Cat. No.	Description	Price
195-200	UVS400A Universal Vacuum System comprises refrigerated vapour trap, vacuum pump and VaporNet®. Supplied with 2x GCF400 glass flasks, 2x insulating covers and 1x FC400 flask cover	POA
195-201	UVS800DDA Universal Vacuum System comprises refrigerated vapour trap, vacuum pump and VaporNet®. Supplied with ANT100 post trap, 2x GCF400 glass flasks, 2x insulating covers and 1x FC400 flask cover**	POA

CryoCool® heat transfer fluid is required for proper operation and running of all refrigerated vapour traps. Please order this separately, see below.

** Neutralising solutions for ammonia or acids are available for use with ANT100 post trap assembly.

* Model UVS400SPD is also available. Please contact our Technical Office on 01342 826836 for details.

Note: UVS400SPD and UVS800DDA are configured for use with SPD121P, SPD131DDA and SC250EXP SpeedVacs®. If using the SC250EXP for aggressive applications it is recommended to use the UVS800DDA.

Accessories

Cat. No.	Description	Price
195-202	CryoCool® heat transfer liquid, 1 litre	POA
195-203	CryoCool® heat transfer liquid, 5 litres	POA
195-232	GCF400, Glass condensation flask, use with 4L refrigerated vapour traps	POA
195-233	FC400, Flask cover	POA
195-204	Tubing and fitting kit for SPD111V, SPD121P. Connects these concentrators to UVS400A system	POA
195-205	Tubing and fitting kit for SC210A. Connects this concentrator to UVS400A system	POA
195-206	Universal tubing package (PVC) for SPD111V, SC210A. Connects these concentrators to any RVT refrigerated trap or UVS system.	POA
195-207	Universal tubing package (TEFLON®) for SPD121P. Connects this concentrator to any RVT refrigerated trap or UVS system	POA
195-208	Universal tubing package (TEFLON®) for SPD131DDA. Connects this concentrator to any RVT refrigerated trap or UVS system	POA

For details on other accessories including: chemical traps kits and neutralising solutions please contact our Technical Office on 01342 826836.

195-200

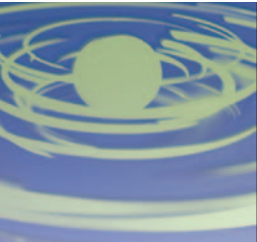
New



195-201

New





Centrifugal Evaporators

Order by phone ▶ 01342 826836 Order on-line ▶ www.ecomcat.co.uk
Order by fax ▶ 01342 826771 Website ▶ www.jencons.co.uk

New 195-101



UNIVAPO Vacuum Concentrators and Systems

With the UNIVAPO range of vacuum concentrators, vacuum and centrifugal force combine to provide a gentle and highly efficient method of evaporating, drying and concentrating biological liquids.

The pre-set rotational speed of the magnetically driven rotor develops the optimum centrifugal force for all the available rotors. This gravitational force prevents bumping, foaming and sputtering of the solution so that virtually 99% of the sample is concentrated and recovered. All UNIVAPO models feature:

- A doubled sealed, chemically resistant, Teflon® coated chamber
- A Perspex® lid
- A choice of accessory rotors
- An indirect drive, magnetically-coupled motor
- Analogue vacuum gauge
- A 2-way vacuum valve installed to the rear of the upper section for ½" vacuum-line connection

The UNIVAPO range of vacuum concentrators will rapidly concentrate samples at low temperature in the vacuum-tight rotor chamber. The UNIVAPO 100 H and 150 H models can run at temperatures up to 39°C, whereas the UNIVAPO 100 ECH and 150 ECH centrifuges can achieve more rapid evaporation of the solvent phase by raising the chamber temperature up to 80°C. In addition, ECH models feature electronic control for time and temperature, an RS232 interface (software available as an accessory) and they offer ramping control with 5 programmable steps.

Applications: For preparations with a maximum recovery of DNA, RNA, proteins, peptides, amino-acids, hormones, enzymes. For analysis by RIA, FIA, TLC, FPLC, HPLC, GC/MS, IR, UV and electrophoresis.

Specifications

Model	UNIVAPO 100 H	UNIVAPO 100 ECH	UNIVAPO 150H	UNIVAPO 150 ECH
Speed/centrifugation, RPM	1250	1250	1250	1250
Drive	Magnetically coupled motor located in lower section. Accessible via bottom base plate (all models)			
Heater power, W	400	400	500	500
Temperature, °C	39*	(40 to 80)	39*	(40 to 80)
Timer	N/A	max. 9h59mins or continuous	N/A	max. 9h59mins or continuous
Overheat protection	yes	yes	yes	yes
Voltage	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz
Dimensions (wxdxh), mm	290x370x295	290x370x295	340x400x370	340x400x370
Weight (net), kg	20	20	23	23

* Ambient to +80°C is available as an option. Please contact our Technical Office on 01342 826836 for details.

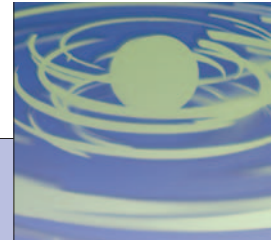
All units are supplied with dual chemical resistant Teflon® coated chamber, vacuum valves, analogue vacuum gauge and Perspex® lid.

Cat. No.	Description	Price
195-100	UNIVAPO 100 H Vacuum concentrator supplied without rotor	POA
195-101	UNIVAPO 100 ECH Vacuum concentrator with digital time and temperature control. Supplied without rotor	POA
195-102	UNIVAPO 150 H Vacuum concentrator supplied without rotor	POA
195-103	UNIVAPO 150 ECH Vacuum concentrator with digital time and temperature control. Supplied without rotor	POA

All units require a rotor (see next page), a cold trap and vacuum source (see page 752 for Unijet pumps and pages 754 and 769 for other suitable pumps).

Units can be supplied with a cooling coil for temperatures down to +16°C. Please contact our Technical Office on 01342 826836 for details.

Centrifugal Evaporators



Order by phone > 01342 826836 Order on-line > www.ecomcat.co.uk
 Order by fax > 01342 826771 Website > www.jencons.co.uk

UNIVAPO Vacuum Concentrators and Systems, continued...

Accessories

Cat. No.	Description	Price
Disc rotors for UNIVAPO 100 H/ECH		
195-104	72-11 Rotor for 72 1.5/2ml microcentrifuge tubes	POA
195-105	40-13 Rotor for 40 glass vials 12/13mm dia.	POA
195-106	24-18 Rotor for 24 glass vials 18mm dia.	POA
195-107	10-24 Rotor for 10 glass vials 24mm dia.	POA
195-108	6-15 Rotor for 6x15ml conical tubes	POA
Disc rotors for UNIVAPO 150 HECH		
195-109	144-11 Rotor for 144 1.5/2ml microcentrifuge tubes	POA
195-110	76-13 Rotor for 76 glass vials 12/13 mm dia.	POA
195-111	46-18 Rotor for 46 glass vials 18 mm dia.	POA
195-112	30-24 Rotor for 30 glass vials 24 mm dia.	POA
195-113	4-96 Swing-out-rotor for 4 standard microtitre plates	POA
195-114	2-96 Swing-out-rotor for 2 deep-well plates	POA

Special rotors can be designed to customer requirements. For details on these and other accessories including software for ECH models please contact our Technical Office on 01342 826836.

UNIVAPO Vacuum Concentration Systems

The systems comprise a UNIVAPO vacuum concentrator (see previous page), one rotor, a pump and vacuum tubing. The UNIVAPO systems listed below are supplied with a Vacucentre 8 diaphragm pump which has a final vacuum of 8mbar. Other systems are available which are supplied with Vacucentre 2 diaphragm pumps, aspirator pumps and rotary vane pumps. Please contact our Technical Office on 01342 826836 for details.

Cat. No.	Description	Price
195-116	UNIVAPO System comprising UNIVAPO 100 H vacuum concentrator, rotor*, pump and tubing	POA
195-117	UNIVAPO System comprising UNIVAPO 100 ECH vacuum concentrator with digital time and temperature control, rotor*, pump and tubing	POA
195-118	UNIVAPO System comprising UNIVAPO 150H vacuum concentrator, rotor**, pump and tubing	POA
195-119	UNIVAPO System comprising UNIVAPO 150 ECH Vacuum concentrator with digital time and temperature control, rotor**, pump and tubing	POA

* The UNIVAPO 100 systems can be supplied with any of the following rotors. Please specify rotor type when ordering.

Disc rotors for UNIVAPO 100 H/ECH

Part. No.	Description
72-11	Rotor for 72 1.5/2ml microcentrifuge tubes
40-13	Rotor for 40 glass vials 12/13mm dia.
24-18	Rotor for 24 glass vials 18mm dia.
10-24	Rotor for 10 glass vials 24mm dia.

** The UNIVAPO 150 systems can be supplied with any of the following rotors. Please specify rotor type when ordering.

Disc rotors for UNIVAPO 150 H/ECH

Part. No.	Description
144-11	Rotor for 144 1.5/2ml microcentrifuge tubes
76-13	Rotor for 76 glass vials 12/13 mm dia.
46-18	Rotor for 46 glass vials 18 mm dia.
30-24	Rotor for 30 glass vials 24 mm dia.

195-101

New

