

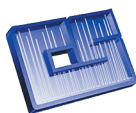
XcelVap®

AUTOMATED EVAPORATION SYSTEM



Horizon
technology

PREPARE FOR BETTER RESULTS



**CHROMATOGRAPHIC
SPECIALTIES INC.**

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Rapid, Gentle Evaporation/Concentration

The XcelVap® Automated Evaporation System is a modern compact benchtop laboratory product that provides rapid, gentle evaporation of up to 54 sample extracts ranging from 1.5 mL up to 200 mL each. Liquid/Liquid, continuous, micro or solid phase extractions of environmental, food, clinical or other matrices still need evaporation of solvent to rapidly reduce sample volumes appropriate for the best analytical instrument sensitivity or when solvent exchange is needed.

Evaporation is accomplished by combining consistent heat, controlled gas flow, and active venting of the solvent vapors. With the XcelVap system, less time and attention are required to prepare reproducible extracts for chromatographic analysis (GC/MS, LC/MS, GC, LC), improving laboratory productivity.

"It's a workhorse in our laboratory."

CUSTOMER IN SELECT SCIENCE REVIEW

Many features go into designing an evaporation system that is effective and easy to use. Productivity is one of the most important goals and being able to quickly evaporate as many samples as possible at the same time, is an important factor. The XcelVap system can hold up to 54 samples for evaporation. The table below compares three different scenarios for sample capacity to show the benefit of the larger capacity.

Based on Starting Volume of 180 mL, Evaporation Time of 33 Min, 7 Hour Day

	Samples Per Day	Samples Per Week	Samples Per Month	Samples Per Year
6 Samples Per Rack	72	360	1,440	18,720
8 Samples Per Rack	96	480	1,920	24,960
Productivity Increase				6,240

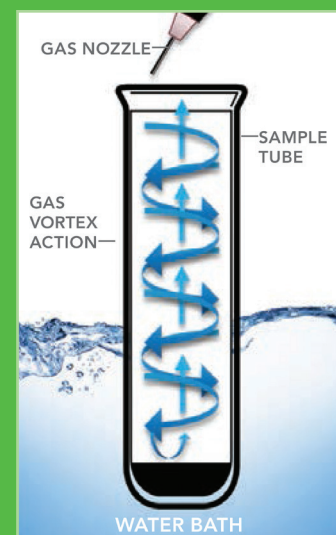
Based on Starting Volume of 45 mL, Evaporation Time of 22 Min, 7 Hour Day

	Samples Per Day	Samples Per Week	Samples Per Month	Samples Per Year
6 Samples Per Rack	114	570	2,280	29,640
24 Samples Per Rack	456	2,280	9,120	118,560
Productivity Increase				88,920

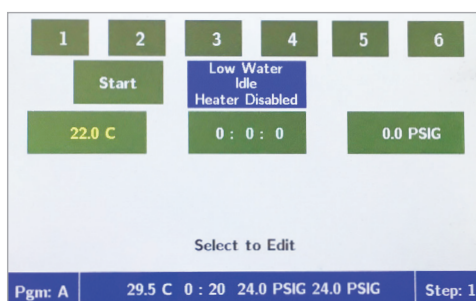
Based on Starting Volume of 7 mL, Evaporation Time of 15 Min, 7 Hour Day

	Samples Per Day	Samples Per Week	Samples Per Month	Samples Per Year
48 Samples Per Rack	1,344	6,720	26,880	349,440
54 Samples Per Rack	1,512	7,560	30,240	393,120
Productivity Increase				43,680

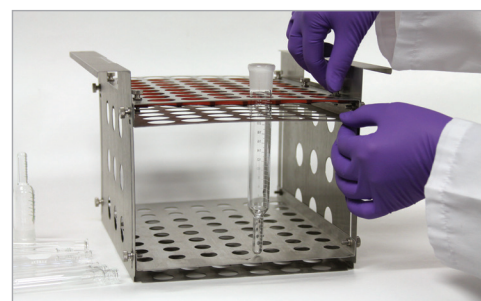
Programmable pressure profiling allows the gas pressure to be gradually increased as the evaporation cycle progresses. The low flow rate early in the process promotes gradual evaporation under the vortex gas flow. As the solution evaporates and more space is available in the vessel, the gas flow is increased automatically to further speed evaporation. Evaporation proceeds optimally, avoiding splashing and eliminating the possibility of cross contamination. Up to five steps can be programmed for the best profile for a sample and the method stored for future use.



- › **Flexible** – a single XcelVap handles all sizes of samples (1.5 – 200 mL)
- › **No Cross Contamination** – Programmable Pressure Profiling allows the gas pressure to start off low and gradually ramps up automatically for optimum speed and no splatter or cross contamination
- › **Multiple Method Storage** – store up to six methods with five pressure steps
- › **Low Maintenance Design** – eliminates costly manifold replacement with user replaceable nozzles
- › **Adjustable Racks** – allows a wide variety of vials and tubes to be handled by a single rack
- › **Benchtop or in Hood Use** – via an exhaust hose
- › **Rugged Design** – a stainless steel bath with front drain makes it easy to change bath water resulting in cleaner more properly maintained unit



Software features include programming and storing methods as well as safety warnings



Adjustable rack handles a variety of sample sizes reducing the need for multiple racks

Compact design provides more room in hood or on limited counter space



Proven reliability backed by a full-year warranty

Put Our Experience To Work For You

At Horizon Technology, we recognize the importance of sample preparation as the first step in achieving better results in the analysis of semivolatile or nonvolatile organic compounds. Whether you're using GC/MS, GC, LC/MS or LC for your analysis, our automated solutions will help you streamline your workflow while improving cost-efficiency and reproducibility.

The consumables that fuel your sample preparation must be readily available and consistently high-quality to ensure that your analyses run predictably and reproducibly. Our Atlantic® and Pacific® disks are automation-certified for superior performance. Purchase these and other items through Horizon Technology by phone or on the expanding website store for reliable delivery and operation.

Whether you're just switching to automated sample preparation or have new employees running your equipment, Horizon can reduce the learning curve. Online videos, comprehensive instruction manuals, application notes and live technical support get you up and running quickly, while our in-house or on-site service provides fast and convenient installation, repair and maintenance of your instruments.

With our ever-expanding product line and consultative approach, we're committed to helping laboratories worldwide get their analyses off to a great start.

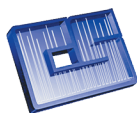
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