

Accelerating the Extraction Process™

ecodyst

EcoChyll X7 Hi-Speed Evaporator Systems



Smart
Self-Cooling
Technology

Models: 22L, 50L, 72L & 100L

**Built for industrial-scale evaporation with high load capacities
and rapid continuous cooling for efficient solvent recovery**

For many years, rotary evaporators (rotovaps) have been standard in laboratories and industries that perform chemistry such as laboratories in the pharmaceutical, academic, government, chemical, life sciences, food & beverage, cleantech, materials, environmental and cannabis sectors. Rotovaps consist of a heating fluid bath, rotating motor, evaporating flask, receiving flask, vacuum source and condenser. The conventional rotovap condenser requires an external source of cooling material such as dry ice, liquid nitrogen, water or glycol. Glycol requires additional recirculating equipment.

The EcoChyll® X7 high speed evaporator from Ecodyst combines high loading capacities with rapid continuous cooling for efficient and fast solvent recovery. Courtesy of proprietary intelligent direct self-cooling condensers, the EcoChyll® X7 high cooling capacity and large surface area condensers can reliably condense large volume of solvents. It's continuous cooling system is guaranteed to increase productivity for high throughput solvent recovery and decarboxylation applications while keeping user safety and usability at the forefront of all botanical extraction applications.

EcoChyll X7 Models: 22L, 50L, 72L & 100L

- NO Water
- NO Dry Ice
- NO Glycol



Smart self-cooling



Fast rates of evaporation



High levels of productivity



Energy efficient



Eco-friendly, Reliable & Sustainable

90°F Ambient Air Temp		EcoChyll® Cooling Capacity					
Evap Temp (°F)	Evap Temp (°C)	X5		X7		X9	
		Btu/hr	Watts	Btu/hr	Watts	Btu/hr	Watts
-40	-40	2,650	777	4,570	1,339	13,200	3,869
-35	-37	2,970	870	5,240	1,539	15,000	4,396
-30	-34	3,360	985	5,930	1,738	16,800	4,924
-25	-32	3,810	1,117	6,660	1,952	18,700	5,480
-20	-29	4,330	1,269	7,440	2,180	20,700	6,067
-15	-26	4,910	1,439	8,250	2,418	22,700	6,653
-10	-23	5,560	1,629	9,100	2,667	24,900	7,297
-5	-21	6,260	1,835	10,000	2,931	27,100	7,942
0	-18	7,010	2,054	11,000	3,224	29,400	8,616
5	-15	7,830	2,295	ND	ND	ND	ND
10	-12	8,690	2,547	ND	ND	ND	ND

Key Advantages

- Cost-effective by eliminating expensive rotary motor with overhead stirring
- Easy-to-use, with simple product drainage not requiring removal of large evaporation vessels
- High-speed stirring for increased surface area and vapor generation
- Modularity of the system enables easy upgrades from 22L to 50L capacities
- Twice the loading capacity of traditional rotovaps (<100 liters)
- Chemical resistant dual condenser with over 9000 cm² cooling surface area

TESTIMONIALS

"I know I'm not the first to say this but our addition of the X7 was one of best pieces of equipment I've purchased in years. It runs circles around two 100L units from one of the leading companies in the industry and it's the 72L unit. It's refreshing to buy a piece of equipment that actually preforms as advertised."

- Jack Tatum, CEO, Isolera Extracts, North Carolina

"The Ecodyst system allows us to continuously evaporate ethanol during production, with minimal handling due to the inventive drip-feed mechanic. The bottom discharge port and simple operation of the system make it easy to work with during day-to-day operations."

- Ties van de Laar, Ph.D, Senior Researcher, Becanex GmbH, Germany

"I've using Ecodyst's 50 Liter EcoChyll unit for over 2 years now and couldn't imagine life in the lab without it. The advantages it offers over traditional rotary evaporators is truly something special. The condenser coils reach temperature (and hold!) in only 30 seconds cutting down warm up times by about an hour, and the discharge valve not only saves time and energy by not having to pour out of a 50-liter flask, but also allows for Clean In Place (CIP) processes saving even more time and energy that is usually attributed to non-production overhead. We have 2 100 Liter units on the way and I'm never going back to the rotovaps of old."

- Drew Ford, Chief Scientific Officer, Starling Brands, Kase Manufacturing, California

FEATURED CLIENTS



CRESCOlabs™

TIKUNOLAM
MEDICAL CANNABIS



TharProcess



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