

Accelerating the Extraction Process™

ecodyst

EcoChyll X5 Hi-Speed Evaporator System



Smart
Self-Cooling
Technology

Models: 22L & 50L

Features a single coil in a robust, space-friendly unit. With a 22L capacity and a small footprint, it is a premium compromise between cost and convenience.

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® X5 is an extremely efficient alternative to all existing evaporative technologies. Based on the same metallic condenser coil technology that elevates each instrument in the EcoChyll line, the EcoChyll® X5 features a single coil in a robust, space-friendly unit. With a 22L capacity and a small footprint, it is a premium compromise between cost and convenience.

Our cost-competitive evaporation unit is a turn-key solution for solvent recovery and decarboxylation. Built with pioneering smart cooling technology, the EcoChyll® X5 automates the vapor cooling process to free-up user time for other operations. This method is now the preferred solution for evaporation in a wide range of botanical extraction applications. The EcoChyll® X5 is a novel solution for cost-limited researchers in botanical markets like cannabis extraction.

EcoChyll X5 Models: 22L & 50L

- 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

- Best-in-class evaporation rates
- Continuous sample feed valve ensures constant operation
- Cost-effective compromise for mid-volume extractions (22L)
- Easy-to-use, with simple product drainage
- Exceptional energy efficiency
- Low-cost of ownership – pays for itself within three years
- Stationary glassware for guaranteed safety

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



Apex, North Carolina, United States

Phone: 919-717-4061 | Email: info@ecodyst.com | Website: www.ecodyst.com

Follow us on: Instagram LinkedIn Facebook Twitter