Accelerating the Extraction Process™

ecodyst

200L EcoChyll X9 Hi-Speed Evaporator System

Engineered to satisfy the highest volume requirements for solvent recovery and decarboxylation

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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® X9 large capacity evaporation unit is a high-speed and ultra-efficient system for demanding botanical extractions. Based on unique triple coil self-cooling technology, this workhorse solution is the best evaporation unit for large-scale extractions, with a greater maximum capacity than any alternative on the market. The EcoChyll® X9 evaporation unit was engineered to address the bottleneck in botanical extraction laboratories servicing the booming hemp industry. With 16,000 watts heating mantle and a matching high cooling capacity, the EcoChyll® X9 comprehensively exceeds the performance of up to eight 50-liter traditional rotovaps.

200L EcoChyll X9

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	Evap Temp	X5		X7		X9	
(°F)	(°C)	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

- Extremely high evaporation rates at a fraction of the falling film evaporator energy usage
- No special infrastructure modification required
- Multifunctional evaporation unit enabling both solvent recovery and decarboxylation
- One-man operation with minimal interference required
- Continuous inlet feed valve for uninterrupted operation

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

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