Accelerating the Extraction Process™

ecodyst

EcoChyll X5 Hi-Speed Evaporator System

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.

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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® 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	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

- 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