

ecodyst

Accelerating the path to Discovery™



Ecochyll X1



Hydrogen

Devises in use

University	Professor
UC Berkeley	Richmond Sarpong
Princeton University	David MacMillan
High Point University	Meghan Blackledge
UNC Chapel Hill	Sidney Wilerson-Hill
Purdue University	Herman Sintim
NC State University	Joshua Pierce & Vincent Lindsey

The modern high performance rotary evaporators with direct self-cooling condenser technology and zero consumables.

For many years, rotary evaporators (rotovaps) have been a 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 chiller equipment.

Using a proprietary and innovative self-cooling technology, Ecodyst has revolutionized the rotovap to be more efficient, to have a smaller footprint, to have greater output, and to be less expensive to operate. The modern smart self-cooling technology from Ecodyst boosts productivity and prevents productivity downtime. The technology offers a paradigm shift and sets a new benchmark for rotovaps without the use of glycol, dry ice, or water, thus eliminating the major sources of material waste associated with conventional rotovaps.



Upgrades
any existing
rotovap



All-in-one
modern
rotovap

EcoChyll X1 Benchtop Rotovap

EcoChyll X1 is a powerful, small footprint smart self-cooling condenser with a large cooling surface area, and it is extremely quiet, efficient and fast. It is ready within 60 seconds of powering it on.

Hydrogen Rotary Evaporator

The multipurpose hydrogen from Ecodyst is eco-friendly, energy efficient, reliable, and sustainable. This contemporary rotovap also delivers excellent performance, has a smaller footprint, features an extremely efficient always-available built-in condenser, is more economical to operate and decreases evaporation time, which enables researchers to pay attention to more difficult tasks.

EcoChyll X1 Benchtop Rotovap

Hydrogen Rotary Evaporator

Key Features

- Does not require dry ice or glycol
- Always available on-demand condenser
- Faster rates of evaporation
- Ready in 60 secs
- Only action required is to turn it ON

Key Features

- Built-in condenser offers required cooling temp
- Built-in vacuum pump controller
- 5L heating bath, room temp to 180°C
- Touchscreen display
- Motorized evaporating flask lift
- Speed 20–280 rpm, timer, interval operation
- Up to 3000mL evaporator flask size
- Chemical-resistant stainless steel spring PTFE vapor tub

Evaporation Temperature		Cooling Capacity		
°F	°C	BTU/h (+/-5%)	W (+/-5%)	Power Consumption (W) +/-5%
-40	-40	620	182	220
-30	-35	835	245	259
-20	-30	1116	327	300
-15	-25	1458	427	343
-10	-20	1857	544	388
5	-15	2322	680	434
10	-12	2844	833	482



Smart self-cooling



Fast evaporation



Small footprint



Energy efficient



Eco-friendly, reliable
and sustainable

Voltage: 100–120 V or 200–240 V, 50/60 Hz Operating Temp Range: Ambient -40°C

Praise for Ecodyst

"As you know, I am a strong proponent of green chemistry and industrial processes. Thus, Ecodyst's unique solution is appealing to me, and I appreciate that the technology does not require a source of water or dry ice, eliminating the major sources of material waste associated with rotovaps. My students are also thrilled that the system is always available and has the ability to achieve temperature in less than five minutes (vs. more than 30 minutes for other technologies). This frees up time for students to focus on their science."

Professor Joseph DeSimone, Stanford University

"My laboratory in the Department of Chemistry at UC Berkeley has been happy to acquire three the EcoChyll and we have been thoroughly impressed with the system's performance. We have found the EcoChyll system to provide superior performance in terms of cooling. Our ability to control the temperature of the cold finger is critical. This has prevented the freezing of condensing solvents, which reduces efficiency. An aspect that we especially like is that the EcoChyll can be used during holidays/weekends when dry ice (for cooling purposes) is not delivered to our department."

Professor Richmond Sarpong, University of California, Berkeley

"My laboratory at NC State University purchased two EcoChyll units, and we have been thoroughly impressed with the system's performance. There is no doubt that the EcoChyll in our lab has significantly simplified our workflow and provided both cost savings and significant convenience as to not have to deal with dry ice. Compared to other chiller systems used previously this product is superior in every way and allows for constant, on-demand cooling at any time of day or night."

Professor Joshua Pierce, North Carolina State University

Some of Our University and Pharma Clients



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Apex, North Carolina • (919) 717-4061 • info@ecodyst.com • www.ecodyst.com

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