

Benchtop Rotary Evaporators



By **ecodyst**

EVAPORATION

Teledyne LABS is proud to be a distributor of Ecodyst's complete line of rotary evaporators and self-cooling condensers. Evaporation follows chromatography in the purification process, and this partnership naturally flows from Teledyne LABS' expertise in flash and preparative chromatography and Ecodyst's groundbreaking developments in rotavap design and operation.

More than twice as fast as traditional rotavaps.

For many years, rotary evaporators (rotavaps) have been standard in chemistry laboratories. Using an innovative, proprietary self-cooling technology, Ecodyst has revolutionized the rotavap to be faster, present a smaller footprint, generate greater output, and be less expensive to operate. Smart, modern, self-cooling systems from Ecodyst boost productivity and prevent downtime. This technology sets a new benchmark for rotavaps without the use of glycol, dry ice, or water, thus eliminating the major sources of material waste associated with conventional rotavaps.

Ecodyst's patented technology was devised and developed by a former medicinal chemist with over 15 years of experience in the laboratory. Frustrated with some of the challenges in relying on dry ice as a consumable to cool rotavaps led to a solution that vastly improved rotary evaporation. Today, Teledyne LABS and Ecodyst emphasize innovation, robust construction, ease of use and the ultimate in customer care to deliver cost-effective, efficient and sustainable solutions for products—and a partnership—that are built to last.

EcoChyll® X1 Self-Cooling Condenser



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.

Key Features

- Does not require dry ice or glycol
- Always available on-demand condenser with set point as low as -40 °C
- Faster rates of evaporation
- Ready in 60 seconds, reaches -20 °C in 90 seconds
- Only action required is to turn it ON
- Ideal for limited space at less than 1 sq. ft.
- Compatible with any rotary evaporator



Hydrogen Rotary Evaporator



Rotavap
to fit your
needs

Hydrogen Performance Rotary Evaporator



All-in-one
modern
rotavap

The multipurpose Hydrogen and Hydrogen Performance rotavaps are eco-friendly, energy efficient, reliable, and sustainable. These contemporary rotavaps deliver excellent performance, have a smaller footprint, and feature an extremely efficient, always-available, built-in condenser. They are more economical to operate and decrease evaporation time, enabling researchers to focus on more difficult tasks.

Hydrogen Standard Features

- LCD display
- Built-in X1 condenser offering same features
- 5L heating bath, room temp to 180°C
- Motorized evaporating flask lift
- Speed 20–280 rpm, timer, interval operation
- Up to 3000 mL evaporator flask size
- Chemical-resistant stainless steel spring PTFE vapor tub

Hydrogen Performance Added Features

- Built-in vacuum pump controller
- Touchscreen display

Cooling Performance

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

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

NO
Water

NO
Dry Ice

NO
Glycol

NO
Chiller

LARGE-SCALE EVAPORATORS

The EcoChyll® X-series of large-scale evaporators and Teledyne LABS' chromatography instruments form a high-throughput purification team you can count on for peak performance, faster turnaround times and consistent results.

Teledyne LABS and Ecodyst combine forces to field a combination that can't be beaten. With these partners pulling together, you'll confidently reach your goals — time and time again.

When you need to think big, think Teledyne LABS and Ecodyst.



TEAMWORK

Teledyne LABS' innovative CombiFlash® NextGen chromatography instruments and the Ecodyst rotary evaporator deliver a championship-caliber team to your lab.

The two are a natural combination of Teledyne LABS' decades-old expertise in flash chromatography and Ecodyst's ground-breaking rotavap technology.

Teledyne LABS and Ecodyst pair for a perfect match of robust construction, leading design and unsurpassed performance. Available separately or as an economical bundle for a winning combination.



Teledyne LABS enhances the visibility for our brands, products, and services, aiding customers in finding solutions that meet their current and future needs.

