ecodyst

HYDROGEN
MODERN ROTARY EVAPORATOR

Technical Information

DEVICE DESCRIPTION

Device Overview

Controller Overview

Lift Key

Press to lift the flask up

Lower Key

Press to lower the flask down

Rotation Speed Key

Press, then turn the "**Control Knob**" to navigate the speed

Interval Key

Press, then turn the "**Control Knob**" to set an interval

Water Bath Temperature Key

Press, then turn the "**Control Knob**" to navigate the temperature

Control Knob

Timer Key

Press, then turn the "**Control Knob**" to set a timer

Technical Data

Power Supply

100-120/200-240 V 50/60 Hz

Hydrogen Cooling Capacity Specs

Evap Temp	Evap Temp	Cooling Capacity		
(°F)	(°C)	Btu/hr +/- 5%	Watts +/- 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

Hydrogen Dimensions

Dimensions		**Hydrogen**
W x D x H	Inches	12 x 15 x 29
W x D x H	mm	304.8 x 381 x 736.6
Including condenser	Inches	18.25 x 15 x 29
Including water bath	Inches	17.75 x 16.25 x 29
Overall W x D x H	Inches	17.75 x 16.25 x 29
Overall Footprint	Sq. in.	288.44
	Sq. ft.	1.8
Weight	lbs	120

Condenser Cooling Unit Specs

Standard Supply Voltage	115V, 15 amps, 60 Hz
Power Supply	656 W
Default Set Temperature	-40°C
Temp stability of condenser coils	+/- 0.1
Operating Temp. Range (°C)	Ambient .... -40°C
Cooling time	(-35, 90 secs)
Right Side Vent & Back Fan	Vent & fan must be unblocked for efficient cooling

Rotovap Component Specifications

Specifications	Ecodyst 1H Rotovap
Motor Type	Brushless DC motor
Speed Range	20-280rpm
Display	LCD (speed/temp/time)
Clockwise and Anti-clockwise	Yes
Heating Temperature Range	Room temp. to 180℃
Control Accuracy	water: ±1℃ oil: ±3℃
Heating Power	1300W
Stroke Displacement	automatic 150mm
Timer	Yes
Time Setting Range	1-999min
Permissible Ambient Temperature	5-40 ℃
Permissible Relative Humidity	80% RH
Protection Class	IP20
Protection class	IP21
USB Interface	Yes
Voltage/Frequency	100-120/200-240V 50/60 Hz
Power	1400 W

Key Features

- Digital display of rotation speed, heating and cooling temperatures allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- 5L heating bath with wide temperature range from room temp. to 180°C. Water/oil heating mode can be changed only through a switch
- Overheating protection temperature at 220°C
- Speed range from 20 to 280 rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Ejection mechanism ensures easy removal of evaporating flask
- Highly chemical resistant double stainless steel spring sealing ring sealed with PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission

CONTACT DETAILS

Ecodyst, Inc.

1010 Goodworth Dr. Apex, NC 27539

919-717-4061

info@ecodyst.com

www.ecodyst.com

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