

Corning Accelerated One-Step Liquid-Liquid Extractor (ROT-X-TRACT-LC)

DESCRIPTION

The ROT-X-TRACT-LC (Catalog# 13318) is designed to both simplify and accelerate the extraction process. This instrument allows for multiple extractions to be performed at once, accommodating up to 8 Corning Accelerated One-Step apparatuses. These apparatuses combine continuous liquid-liquid extraction and concentration into one easy step.

This unit is meant for extraction of aqueous water samples with heavier-than-water extraction solvents. The ROT-X-TRACT-LC can be used in place of conventional continuous liquid-liquid extraction, EPA method 3520. The extraction can be completed in just 5.5 hours instead of 18 hours for normal liquid-liquid extractions. The amount of solvent required is also reduced to 100 mL instead of the typical 500 mL. By incorporating a stop-cock assembly and a 3-ball Snyder column, the Corning One-Step extractor can both extract desired analytes as well as evaporate solvent from the end by-product within the same cycle.

This extractor also comes with an electronic side control box which enables the operator to program specific bath temperatures and time cycles to stay in compliance with the designated methodologies.

The circular design of the ROT-X-TRACT-LC conserves valuable bench space, while also allowing the instrument to rotate so that each sample can be accessed from the front. A Friedrichs condenser is also used to reduce the overall height to accommodate traditional laboratory hood specifications. Allihn condensers can be substituted per customer request.

STANDARD FEATURES

- Side control box with digital timer and heat controls
- Centrally located water manifold allows for one water supply line in and one drain line out to prevent tangling
- Organomation vacuum insulated concentrator tubes keep delicate samples safe
(Catalog# GP2243)



OPTIONAL FEATURES

- 220 V wiring harness
(Option Code: -2)
- Z-Purge/intrinsically safe purge case
(Option Code: -Z)
- Corning One-Step extraction glassware
(Catalog# GS3380)

ROT-X-TRACT-LC Specifications	
Instrument Catalog Number	13318
Number of Samples	8
Overall Dimensions (W x D x H)	24 x 19 x 42 in 61 x 48 x 107 cm
Glassware Specifications	
Required Glassware	GS3380
Extractor Type and Size	Corning One-Step; 1000 mL
Solvent Flask Type and Size	In-Line KD; 100 mL
Concentrator Tube Type and Size	Insulated Tip 19/22; 10 mL
Snyder Column Type	J Tube
Condenser Type and Size	Friedrichs; 45/50
Heating Device Specifications	
Water Bath Model Number	14165 (for 240 V models) 16165 (for 120 V models)
Inside Bath Dimensions (Diameter x Depth)	16 x 8.5 in 40.6 x 21.6 cm
Outside Bath Dimensions (W x D x H)	24 x 19 x 10 in 61 x 48 x 25 cm
Water Flow Meter	0-3 LPM
Total Wattage	1400 W (for 240 V models) 1600 W (for 120 V models)
Bath Temperature Range	30-100 °C
Temperature Controller Type and Controller Accuracy	Digital +/- 2 °C