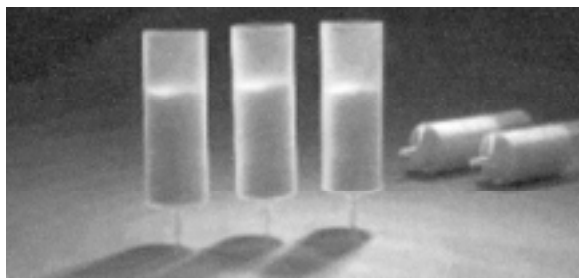


EnvirElut 1664



- **Oil and grease extraction**
- **For EPA 1664**

Cost-Effective

The EnvirElut™ 1664 solid phase extraction method offers laboratories a low-cost, efficient way to process oil and grease samples.

- “Walk away” processing: needs no monitoring
- Reduces the labor needed during an extraction process
- Uses small amount of solvents, lowers disposal costs
- Eliminates the need for expensive, breakable glassware

Dependable

With EnvirElut 1664, samples transfer directly from the collection bottle to Varian’s SPE cartridge, assuring that the entire sample is extracted. EnvirElut also eliminates emulsions, which are a time-consuming problem with liquid/liquid extraction.

Rugged

Varian’s EnvirElut 1664 method was developed specifically for oil and grease extractions, and therefore it solves many of the problems associated with the extraction of extremely dirty samples.

- High-particulate levels are handled quickly and easily
- Efficient integrated filter design greatly reduces clogging
- Residual moisture is removed with the AquaSep column

Simple

Since the sampling bottle also serves as part of the extraction apparatus, the EnvirElut system is remarkably simple to operate. Additionally, the “in-line” processing station does not require constant monitoring and makes the method significantly easier to perform than the multiple steps necessary with liquid/liquid extraction.



Replacement components are available including glass sample bottle, 1 L funnel container, two place elution station, glass chamber, 89mm adapter cap for the glass sample bottle, manifold O-ring and 50mL collection tube.

EnvirElut 1664 Cartridges

EnvirElut 1664 cartridges consistently pass 1-liter dirty water samples in less than 10 minutes, without loss of analyte, and deliver greater than 90% recovery with oil and grease standards from 5 mg/L to 1,000 mg/L. The cartridge design has been optimized for maximum flow of large volume samples and the use of rigorously cleaned depth filters ensure that even high particulate laden samples are processed without clogging. The procedure is entirely Freon™-free, and when combined with Varian’s AquaSep columns for moisture removal, offers a solid phase extraction procedure with results equivalent to the newly promulgated EPA 1664/ASTM method 413.1 (gravimetry).

Varian’s EnvirElut oil and grease solid phase extraction processing station is ideal for monitoring waste water, aqueous effluent, and surface/ground water. It is faster, more efficient, and uses less solvent than sample preparation performed with liquid/liquid extraction.



6 Station
EnvirElut Manifold



Single Station
EnvirElut Manifold

EnvirElut 1664 Manifold

A single and a six station manifold system are available to accommodate the number of samples you need to process. Each manifold system comes complete with necessary tubing, vials, and sampling container. In addition to the replacement components readily available when needed, Varian offers an easy pour, open top one liter funnel that can be used in place of the standard glass sample bottle and 89mm cap. This reservoir funnel ensures that a full 1 liter sample can be processed and is compatible with both the single and the six station system.

Cat.No.	Description	Price
1227-2020	EPA 1664 Oil and grease columns with AquaSep cartridges, 20/box	
1227-2011	AquaSep cartridges, 20/box	
EnvirElut 1664 Manifold		
1223-5101	Single station complete system	
1223-5102	EnvirElut six station complete system	
Replacement Manifold Components		
1223-5156	Two place elution station	
1223-5152	Glass collection chamber	
1223-5154	50mL Collection tube	
1223-5155	EnvirElut manifold Viton O-ring	
1223-5153	89mm Glass sample bottle	
1223-5151	89mm Adapter cap for sample bottle	
1223-5157	1 Liter glass sample reservoir	