

StepSaver for Oil and Grease Testing

Solid Phase Extraction is Easy with the Environmental Express StepSaver™ for EPA Method 1664.

The Environmental Express StepSaver for solid phase extraction saves time and simplifies the disk method for oil and grease (EPA Method 1664). This unique apparatus allows the analyst to collect the solvent with the oil and grease fraction directly into a pre-weighed collection flask with no disassembly or reassembly of the glassware. The eluent is already chemically dried and can be directly evaporated to obtain the weight of the extracted oil and grease.

The StepSaver design incorporates a two-way 120° Teflon® stopcock and a patented glassware design that passes the solvent through a Na_2SO_4 cartridge before being collected in a pre-weighed flask. Extraction, elution and drying are all accomplished with one apparatus saving time and cleanup steps.

Purchase 47mm StepSaver Units Individually or as StepSaver Complete Systems

Individual StepSaver Kits are available in both 47mm and 90mm sizes. **47mm StepSaver Complete Systems** are available in a variety of configurations and include vacuum manifolds and all StepSaver components. Complete systems are available to accommodate up to seven StepSaver units. See details on StepSaver Complete Systems and individual StepSaver units on the reverse side of this sheet.

Use UltraFlow™ Filters for Best Results

UltraFlow solid phase extraction filters are a perfect complement to the StepSaver for EPA 1664 extractions. UltraFlow filters have a unique laminar design that combines a prefilter with a high-carbon SPE filter. The result is an oil and grease extraction filter with fast flow, high loading capacity and excellent recovery. UltraFlow filters are available in both 47mm and 90mm.

47mm UltraFlow™ Disposable Filter Funnel Option

To make analysis easier, 47mm diameter UltraFlow filter disks are also available in polypropylene, disposable funnel housings with over 250mL capacity. These lightweight plastic funnel assemblies reduce cleanup and improve safety. Oil and grease fractions do not adhere to the polypropylene sides of the funnels, making recoveries easier. Tests show no measurable extractable levels from the funnels themselves. Funnels with filter disks are available to fit 47mm Environmental Express StepSaver and the J.T. Baker® Speedisk® Manifold.

See the reverse side of this sheet for part numbers and specifications.



ENVIRONMENTAL EXPRESS

Call 800.745.8218 or 843.576.1147 ■ www.environmentalexpress.com

Copyright, Environmental Express, Inc., March 2011

StepSaver for Oil and Grease Testing

Ordering Information For Oil and Grease Products:

StepSaver Complete Systems include the specified manifold, the specified number of StepSaver Kits (UltraFlow or glass kits as specified) one 20L trap (G3070), 2 boxes of G5047mm UltraFlow disks, one package of G1065 sodium sulfate drying cartridges, one box of G3023 MDL Snip and Pour™ Standards, one box of G3025 Snip and Pour Standards and one *Solid Phase Extraction Made Easy* video (G1001).

StepSaver System 3-Place, PVC, Glass Funnel, Each	G1103
StepSaver System 3-Place, SS, Glass Funnel, Each	G2103
StepSaver System 7-Place, PVC, Glass Funnel, Each	G1107
StepSaver System 6-Place, SS, Glass Funnel, Each	G2106

UltraFlow™ StepSaver Complete Systems are also available. UltraFlow StepSaver Complete Systems include the specified manifold, the specified number of UltraFlow StepSaver Kits (UltraFlow StepSaver kits utilize the 250mL disposable filter funnels in place of the 1000mL glass funnel), two boxes of UltraFlow Filter Funnels, G5127, one 20L trap (G3070), one package of G1065 sodium sulfate drying cartridges, one box of G3023 MDL Snip and Pour Standards, one box of G3025 Snip and Pour Standards and one *Solid Phase Extraction Made Easy* video (G1001).

StepSaver System 3-Place, PVC, Disposable Funnel, Each	G1123
StepSaver System 3-Place, SS, Disposable Funnel, Each	G2123
StepSaver System 7-Place, PVC, Disposable Funnel, Each	G1127
StepSaver System 6-Place, SS, Disposable Funnel, Each	G2126

StepSaver Kits are Also Sold Individually

Individual 47mm StepSaver Kit **G1047-1L**
47mm StepSaver includes 1000mL borosilicate glass funnel reservoir, two-way base unit with 120° Teflon® stopcock and stainless steel filter plate, fluorosilicone sealing gasket, 40/35 ground glass joint, Thomas® clamp, 100mL borosilicate glass collection flask and Keck clip.

Individual UltraFlow 47mm StepSaver Kit **G5747**
47mm StepSaver utilizes 250mL disposable filter funnels (in place of 1000mL glass funnel reservoir), one box of G5127 disposable UltraFlow Filter Funnels, two-way base unit with 120° Teflon stopcock and stainless steel filter plate, fluorosilicone sealing gasket, 40/35 ground glass joint, Thomas clamp, 100mL borosilicate glass collection flask and Keck clip.

Individual 90mm StepSaver Kit **G1090**
90mm StepSaver includes 1000mL borosilicate glass funnel reservoir, two-way base unit with 120° Teflon stopcock and Kel-F plate, 40/35 ground glass joint, large Thomas clamp, 100mL borosilicate glass collection flask and Keck clip.

<i>Description</i>	<i>Catalog #</i>	<i>Pack</i>
UltraFlow Filter Funnel Assembly 250mL funnel, filter size 47mm	G5127	20
47mm UltraFlow (disks only)	G5047MM	20
90mm UltraFlow (disks only)	G5090MM	15
100mm UltraFlow Filters for Horizon SPE-DEX (disks only)	G5100MM	15
1-Place Stainless Steel Manifold	G1200	Each
1-Place PVC Manifold	G1210	Each
3-Place Stainless Steel Manifold	G1250	Each
3-Place PVC Manifold	G1260	Each
6-Place Stainless Steel Manifold	G1300	Each
7-Place PVC Manifold	G1270	Each
Snip and Pour Standards, Concentration	Catalog #	Pack
20mg hexadecane and 20mg stearic acid (40mg HEM in 10mL acetone)	G3025	20X10mL
5mg hexadecane and 5mg stearic acid (10mg HEM in 10mL acetone)	G3026	20X10mL
20mg hexadecane and 20mg stearic acid (40mg HEM in 5mL acetone)	G2018	20X5mL
20mg hexadecane and 20mg stearic acid (9 bottles, 40mg HEM in 30mL acetone)	G3020	9X30mL

Standards for use with Separatory Funnels (LLE) or Solid Phase Extraction (SPE)



Environmental Express standards meet all EPA requirements for Hexadecane/Stearic Acid Spiking Solution as specified by EPA Method 1664 for quality control sample analysis. Use these convenient, easy-to-use standards with Separatory Funnels (LLE) or Solid Phase Extraction (SPE) for oil and grease analysis. Standards are checked gravimetrically and by GC. Traceable certification and MSDS are included with each box. Oil and grease standards should be stored in a cool environment.

Convenient Snip & Pour™ Teflon® Tubes

G3025 and G3026 are packaged in convenient Snip & Pour Teflon tubes. Just snip the top of the Teflon tube and pour the contents into the sample container or extraction apparatus. The precise volume of HEM is delivered to the LCS or Matrix Spike sample. HEM contents do not adhere to the sides of the single-use Teflon tube. Inexpensive Snip & Pour tubes eliminate pipettes and require no warming prior to use. Twenty 10mL tubes per pack. Each G3025 tube contains 40mg of extractable HEM per 10mL aliquot while each G3026 tube contains 10mg extractable HEM. See part numbers and pricing in chart, left.



ENVIRONMENTAL EXPRESS

Call 800.745.8218 or 843.576.1147 ■ www.environmentalexpress.com