



HAPSITE[®]

Chemical Identification System

IPN dild30a1-a

DETECT TO PROTECT[™]



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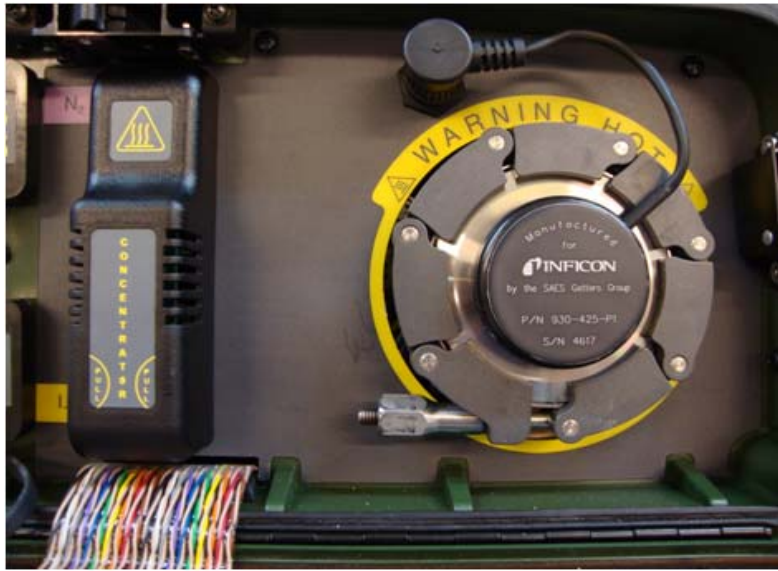
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Chapter 1

HAPSITE Consumables

1.1 NEG Pumps

Part Number	Photograph
930-242-G1 NEG Pump Installed and activated at INFICON Repair Facility HAPSITE Smart/Smart Plus (upper picture) HAPSITE ER (lower picture)	 

Part Number	Photograph
930-425-P1 Spare NEG Pump	
930-838-P1 HAPSITE Product Sustainment Program	Product Sustainment Program is an open account that can be used toward consumables, spare parts, training, and repairs. Must be redeemed within two years of date of purchase.

1.2 Ionizer

Part Number	Photograph
930-205-G1 Ionizer w/Magnet HAPSITE Smart/Smart Plus only	

NOTE: The HAPSITE ER requires factory service to replace the ionizer.

1.3 Battery

Part Number	Photograph
930-4061-G1 Battery for HAPSITE AM, Headspace & SituProbe	

1.4 Carrier Gas

Part Number	Photograph
930-432-P6 5 L Canister Nitrogen Carrier Gas (Pack of 6) (shown)	
930-432-P12 5 L Canister Nitrogen Carrier Gas (Pack of 12)	
930-432-P24 5 L Canister Nitrogen Carrier Gas (Pack of 24)	
NOTE: Carrier gas has a two-year shelf life from its date of manufacture.	

Part Number	Photograph
930-730-G1 Extended Life Carrier Gas Deployment Kit (110 Liter)	 Included in the kit: ♦ (1) 110 L High-purity nitrogen cylinder ♦ (2) 5 L Internal Standard canisters ♦ (1) 110 L cylinder stand ♦ (1) Two-stage, high-purity CGA-180 regulator ♦ (2) Quick Disconnect Stems w/Teflon tubing ♦ (1) 1/2" combination wrench ♦ (1) 1/4" combination wrench NOTE: Carrier gas has a two-year shelf life from its date of manufacture. NOTE: Internal Standard has a one-year shelf life from its date of manufacture.

Part Number	Photograph
930-4611-P1 Extended Life Nitrogen Carrier Gas (110 Liter)	
NOTE: Carrier gas has a two year shelf life from its date of manufacture.	

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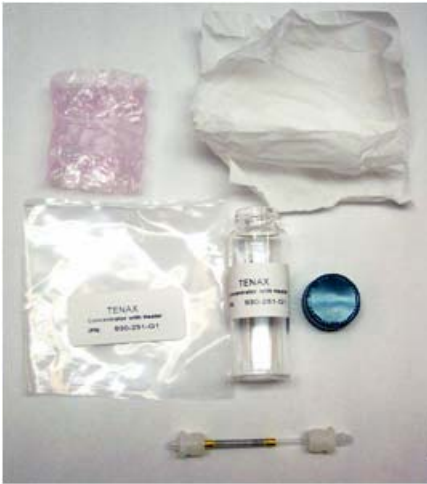
1.5 Internal Standard Gas

Part Number	Photograph
930-433-P6 5 L Canister, Internal Standard Gas (Pack of 6) (shown)	
930-433-P12 5 L Canister, Internal Standard Gas (Pack of 12)	
930-433-P24 5 L Canister, Internal Standard Gas (Pack of 24)	
NOTE: Internal Standard contains 50 ppmv Bromopentafluorobenzene (BPFB) and 100 ppmv 1,3,5-Tris (trifluoromethyl) benzene (TRIS) balanced with high-purity Nitrogen. NOTE: Internal Standard gas has a one year shelf life from its date of manufacture.	

1.6 Nitrogen/Internal Standard Gas Combo Pack

Part Number	Photograph
930-477-P1 Gas Combo Pack Includes: ♦ (4) 5 L nitrogen carrier gas canisters ♦ (2) 5 L Internal Standard canisters	
NOTE: Nitrogen carrier gas has a two year shelf life from its date of manufacture. NOTE: Internal Standard gas has a one year shelf life from its date of manufacture.	

1.7 Concentrator

Part Number	Photograph
930-251-G1 Concentrator Tube w/Heater, Tenax	
930-716-G1 Concentrator Tube w/Heater, Tri-Bed	
930-249-G2 Concentrator Cover for Tenax/Tri-Bed Concentrators (2 views shown)	

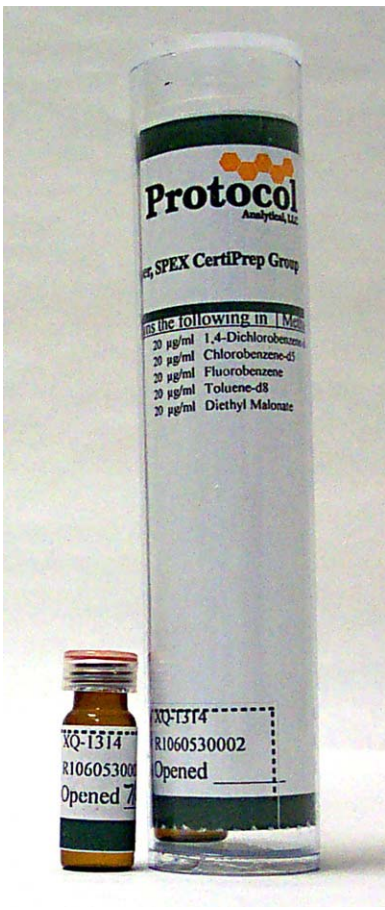
Part Number	Photograph
930-0221-G1 Concentrator Tube Nut/Ferrule Kit 10 each for Tenax/Tri-bed concentrators	

1.8 Sample Loop

Part Number	Photograph
930-705-G1 Sample Loop Tube Kit	
930-250-G1 Sample Loop Cover (2 views shown)	

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1.9 Chemicals

Part Number	Photograph
071-747 XQ-1314 Performance Standard Concentrator for Air 5 analytes in methanol, 1.2 mL	 Comprised of five components: ♦ 20 µg/mL 1,4-Dichlorobenzene-d4 ♦ 20 µg/mL Chlorobenzene-d5 ♦ 20 µg/mL Fluorobenzene ♦ 20 µg/mL Toluene-d8 ♦ 20 µg/mL Diethyl Malonate

Part Number	Photograph
071-748 XINF-IS-4 Performance /Internal Standard for Headspace (4 analytes) in methanol, 1.2 mL	 Comprised of four components: ♦ 250 µg/mL 1,4-Dichlorobenzene-d4 ♦ 500 µg/mL Bromopentafluorobenzene ♦ 250 µg/mL Chlorobenzene-d5 ♦ 250 µg/mL Fluorobenzene

IPN d1d30a1-a

Part Number
Photograph
071-760
XINF-KIT-10
**HAPSITE Chemical
Standard Kit**

11 part (for
training/practice)

1.2 mL of the following:

P-Gas (2000 µg/mL each)

- ♦ Benzene
- ♦ Chlorobenzene
- ♦ Ethylbenzene
- ♦ Toluene
- ♦ *m*-Xylene
- ♦ *o*-Xylene
- ♦ *p*-Xylene
- ♦ 1,2-Dichlorobenzene
- ♦ 2,3-Dichlorobenzene
- ♦ 1,4-Dichlorobenzene

S-2125-200 (2000 µg/mL)

- ♦ n-Heptane

THM-X (400 µg/mL each)

- ♦ Bromodichloromethane
- ♦ Bromoform
- ♦ Chloroform
- ♦ Dibromochloromethane

CLPV-AH (2000 µg/mL each)

- ♦ Bromoform
- ♦ Methylene Chloride
- ♦ 1,2-Dichloropropane
- ♦ *trans*-1,2-Dichloroethene
- ♦ 1,2-Dichloroethane
- ♦ Dibromochloroethane
- ♦ Carbon Tetrachloride
- ♦ Tetrachloroethene
- ♦ 1,1,2,2-Tetrachloroethane

- ♦ Chloroform
- ♦ Chlorobenzene
- ♦ 1,1,2-Trichloroethane
- ♦ Trichloroethene
- ♦ 1,1-Dichloroethene
- ♦ 1,1-Dichloroethane

XQ-1314 (20 µg/mL each)

- ♦ 1,4-Dichlorobenzene-d₄
- ♦ Chlorobenzene-d₅
- ♦ Fluorobenzene
- ♦ Toluene-d₈
- ♦ Diethyl Malonate

XINF-IS-4

- ♦ 500 µg/mL Bromopentafluorobenzene
- ♦ 250 µg/mL Chlorobenzene
- ♦ 250 µg/mL 1,4-Dichlorobenzene
- ♦ 250 µg/mL Fluorobenzene

Chloroform-NEAT

n-Heptane-NEAT

Methyl Salicylate-NEAT

Tetrachloroethylene-NEAT

Toluene-NEAT

30 mL of the following:

XS-2380 Methanol

1.10 VX Conversion

Part Number	Photograph
930-4141-P1 VX Conversion Tubes 10 per pack	 

IPN d1d30a1-a

1.11 Sample Bags

Part Number	Photograph
070-1416 1 Liter Tedlar Bag 10 bags per carton	
070-1419 Vacu-Tube Bags (0.7 Liter) 10 bags per carton for use with Vac-U-Tube IPN 070-1420 (not shown)	

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Chapter 2

HAPSITE Spare Parts

2.1 Technical Documentation

Part Number	Photograph
074-5004-G1 HAPSITE Smart User Manual CD	
074-5010-G1 HAPSITE Smart Plus User Manual CD	

Part Number	Photograph
074-5009-G1 HAPSITE ER User Manual CD	
074-5012-G1 HAPSITE Level II Training CD (Front Panel Operation)	
NOTE: For use with the HAPSITE ER/Smart Plus only	
930-035-G1 HAPSITE Smart IQ CD	
NOTE: For HAPSITE Smart versions only	

Part Number	Photograph
930-0351-G21 HAPSITE Plus IQ CD	
NOTE: For HAPSITE Smart Plus versions only	
930-0351-G1 HAPSITE ER IQ CD	
NOTE: For HAPSITE ER versions only	
930-4071-G1 NIST Version Upgrade to NIST '08	
930-4081-G1 NIST '08 (w/AMDIS) (shown)	
NOTE: For all HAPSITE models	

2.2 Cables

Part Number	Photograph
600-1319-P2 Crossover Cable, Black 12'	

2.3 Probe

Part Number	Photograph
930-206-G1 HAPSITE Smart Hand Control Unit (Probe)	

Part Number	Photograph
930-206-G5 HAPSITE Smart Plus Hand Control Unit (Probe)	
930-206-G6 HAPSITE ER Hand Control Unit-Green (Probe) (shown) 930-206-G7 HAPSITE ER Hand Control Unit-Blue (Probe)	

Part Number	Photograph
930-0231-G1 Probe Nut and Ferrule Kit 5 each	
931-405-P1 HAPSITE Smart/Smart Plus Probe Insulation, Thin 62"	
931-408-P2 HAPSITE Smart/Smart Plus Probe Insulation, Thick 62" (shown)	

Part Number	Photograph
070-1545 HAPSITE ER Probe Insulation	

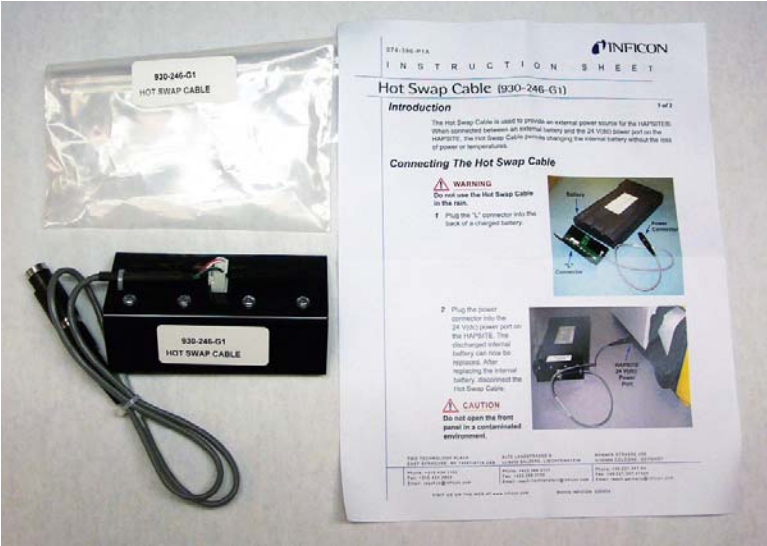
2.4 Loop

Part Number	Photograph
930-705-G1 Sample Loop Tube Kit	
930-250-G1 Sample Loop Cover (2 views shown)	

IPN d1d30a1-a

2.5 Power

Part Number	Photograph
930-469-P1 110 V(ac) - 24 V(dc) (USA) HAPSITE Power Supply for all models of HAPSITE AM, Headspace & SituProbe (shown)	
930-469-G4 230 V(ac) - 24 V(dc) (Australia/China)	
930-469-P2 230 V(ac) - 24 V(dc) (European)	
930-469-G3 230 V(ac) - 24 V(dc) (UK)	
930-470-G1 Battery Charger USA power cord standard	

Part Number	Photograph
068-0002 Battery Charger/Service Module Power Cord (USA) (shown)	
068-0393 Battery Charger/Service Module Power Cord (Australia/China)	
068-0151 Battery Charger/Service Module Power Cord (Europe)	
068-0388 Battery Charger/Service Module Power Cord (UK)	
930-246-G1 Hot Swap Cable (Battery Test Bracket) supplies external battery power to allow for internal battery replacement in the HAPSITE AM, Headspace & SituProbe	

IPN d1d30a1-a

2.6 Column Modules

Part Number	Photograph
930-489-G1 30m, Rtx - 1MS, 1.0 μm df (Standard) for the HAPSITE Smart/Smart Plus (2 views shown)	 NOTE: Conditioned at the factory
934-430-G2 15m, HP-1MS, 0.25 mm i.d., 1.0 μm df (Standard) for the HAPSITE ER (2 views shown)	 NOTE: Conditioned at the factory

2.7 Vessels

Part Number	Photograph
070-1454 1 L Syringe with Luer Lock	
070-1224 50 mL Gastight Syringe with Luer Lock (not supplied with needle)	

Part Number

Photograph

070-1205
25 mL Gastight
Syringe with Luer
Lock
 (not supplied with
 needle)



070-1206
10 µL Gastight
Syringe
 with removable
 needle, 6 each



Part Number	Photograph
070-1207 Replacement Needle for 10 µL Gastight Syringe, IPN 070-1206, 3 each	
070-1223 10 µL Syringe with Fixed Needle 6 each	

IPN d11d30a1-a

Part Number	Photograph
070-1420 Vacu-Tube (0.7 L) use with Vacu-tube bags IPN 070-1419	

2.8 Cases / Transport

Part Number	Photograph
930-464-P1 HAPSITE Shipping Case	

Part Number	Photograph
930-4131-P1 HAPSITE Accessory Case	 The photograph shows a black, rugged, open HAPSITE Accessory Case. The case is made of a durable material with a textured exterior. The interior is lined with black foam and features several compartments of different sizes, designed to hold various electronic equipment. The case is shown from a top-down perspective, with the lid open, revealing the internal layout.
NOTE: The HAPSITE Accessory Case is designed to hold: ♦ HAPSITE power supply and battery ♦ Laptop, power supply, mouse ♦ Battery charger and power cable ♦ Loop/Concentrator and cover	

Part Number	Photograph
930-4551-G1 Backpack, HAPSPACK	
930-4051-P1 Cold Weather Insulating Bag	

IPN d1d30a1-a

2.9 Miscellaneous

Part Number	Photograph
930-703-G1 HAPSITE Smart/Smart Plus Ion Pump Kit	
NOTE: The HAPSITE ER requires factory service to replace the ion pump.	
059-0329 Quick Disconnect Stem for external nitrogen for HAPSITE AM, Headspace & SituProbe	

Part Number	Photograph
930-022-G1 Tool Kit w/ Torque Wrench	 NOTE: Pouch color may vary
930-0211-G1 Torque Wrench Kit	

Part Number
Photograph

930-021-G1
Gasket Kit



- ♦ 059-258 Spare NEG Gaskets (KF 50 aluminum) (5 each)
- ♦ 070-944 Spare o-rings 1-1/8" for HAPSITE Loadlock (5 each)
- ♦ 070-946 Spare o-rings 2-3/8" for Service Module Loadlock (5 each)

Part Number	Photograph
930-2020-G1 HAPSITE Smart/ Smart Plus Decon Plug Kit	

Part Number	Photograph
930-2020-G2 HAPSITE ER Decon Plug Kit	
930-729-G1 HAPSITE Contamination Trap	

IPN dliid30a1-a

2.10 Upgrades

Part Number	Photograph
930-870-G1 HAPSITE Smart Plus Upgrade (Smart to Smart Plus) 930-880-G1 HAPSITE Smart Plus Upgrade (Wireless to Smart Plus)	
930-8020-G1 HAPSITE USB/Wireless Upgrade for Yellow HAPSITE Smart (shown) 930-8020-G2 HAPSITE USB/Wireless Upgrade for NATO Green HAPSITE Smart	

2.11 USB Drive

Part Number	Photograph
930-612-P1 USB Drive	
NOTE: Memory size, model, and style may vary	

2.12 Replacement / Upgrade Laptops

Part Number	Photograph
930-261-G31 HAPSITE Smart Standard Laptop with Windows XP, Smart IQ Software, and NIST '08 (shown)	
930-261-G62 HAPSITE Smart Plus Standard Laptop with Windows XP, Plus IQ Software, and NIST '08	
930-261-G61 HAPSITE ER Standard Laptop with Windows XP, ER IQ Software and NIST '08	NOTE: Replacement laptops can be purchased with an upgrade or as a replacement for the customer's original laptop NOTE: Model may vary

Part Number	Photograph
930-261-G51 HAPSITE Smart Ruggedized Laptop with Windows XP, Smart IQ Software, NIST '08 (shown)	
930-261-G72 HAPSITE Smart Plus Ruggedized Laptop with Windows XP, Plus IQ Software, and NIST '08	
930-261-G71 HAPSITE ER Ruggedized Laptop with Windows XP, ER IQ Software, and NIST '08	
NOTE: Replacement laptops can be purchased with an upgrade or as a replacement for the customer's original laptop NOTE: Model may vary	

Chapter 3

HAPSITE Accessories

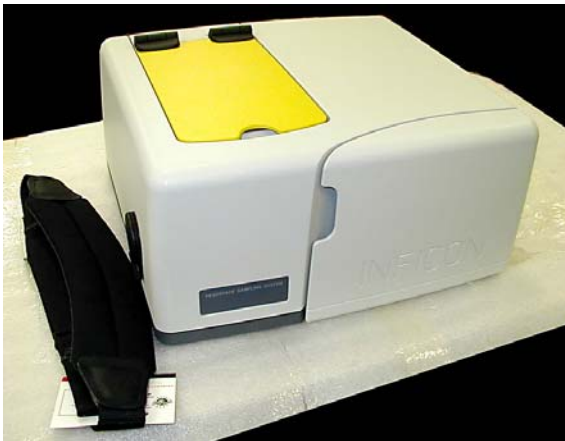
3.1 Service Module

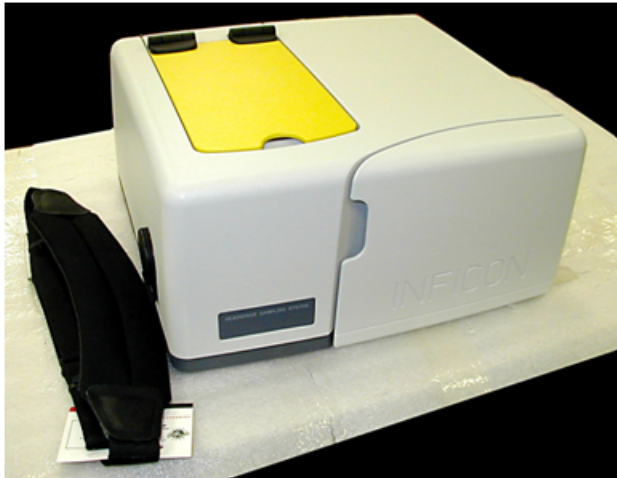
Part Number	Photograph
930-202-G1 Service Module 110/120/230 V(ac) standard with USA power cord	
930-202-G3 Service Module 24 V(dc) Power Supply	 NOTE: For vehicle usage only

Part Number	Photograph
068-0002 Battery Charger/Service Module Power Cord (USA) (shown)	
068-0393 Battery Charger/Service Module Power Cord (Australia/China)	
068-0151 Battery Charger/Service Module Power Cord (Europe)	
068-0388 Battery Charger/Service Module Power Cord (UK)	
930-465-P1 Service Module Shipping Case	

Part Number	Photograph
600-1001-P15 RS232 Cable 15'	

3.2 Headspace Sampling System

Part Number	Photograph
931-205-G1 HAPSITE Smart/ Smart Plus Headspace Sampling System	 Included in the Ship Kit: ♦ 036-0015 Strap ♦ 070-290 Strap assembly instructions ♦ 931-401-P2 Transfer line ♦ 070-1099 Red caps for transfer line ♦ 931-405-P1 Insulation transfer line ♦ 931-402-P1 Sample needle ♦ 931-702-G10 Needle guides ♦ 600-1131-P30 "Y" Cable assembly ♦ 059-0329 Quick Disconnect N2 NOTE: Yellow lid color changing to black in 2010

Part Number	Photograph
931-205-G2 HAPSITE ER Headspace Sampling System	
	Included in the Ship Kit: ♦ 036-0015 Strap ♦ 070-290 Strap assembly instructions ♦ 931-210-G1 Transfer line ♦ 070-1099 Red caps for transfer line ♦ 070-1545 Insulation transfer line ♦ 931-402-P1 Sample needle ♦ 931-702-G10 Needle guides ♦ 600-1131-P30 "Y" Cable assembly ♦ 059-0329 Quick Disconnect N2
	NOTE: Yellow lid color changing to black in 2010

Part Number	Photograph
931-406-P1 Headspace Shipping Case	
931-401-P2 Standard 4' Transfer Line for the HAPSITE Smart/Smart Plus and the Headspace/ SituProbe	

IPN d1d30a1-a

Part Number	Photograph
931-401-P1 Standard 6' Transfer Line for the HAPSITE Smart/Smart Plus and the Headspace/ SituProbe	
931-210-G1 Standard 4' Transfer Line for the HAPSITE ER and the Headspace/ SituProbe	

Part Number	Photograph
931-405-P1 HAPSITE Smart/Smart Plus Transfer Line Insulation, Thin 49"-compatible with the 4' transfer line IPN 931-401-P2 931-405-P3 HAPSITE Smart/Smart Plus Transfer Line Insulation, Thin 72"-compatible with 6' transfer line IPN 931-401-P1 (shown)	
931-408-P1 HAPSITE Smart/Smart Plus Transfer Line insulation, Thick 49"-compatible with 4' transfer line IPN 931-401-P2 931-408-P3 HAPSITE Smart/Smart Plus Transfer Line Insulation, Heavy 72"-compatible with 6' transfer line IPN 931-401-P1 (shown)	

IPN d1d30a1-a

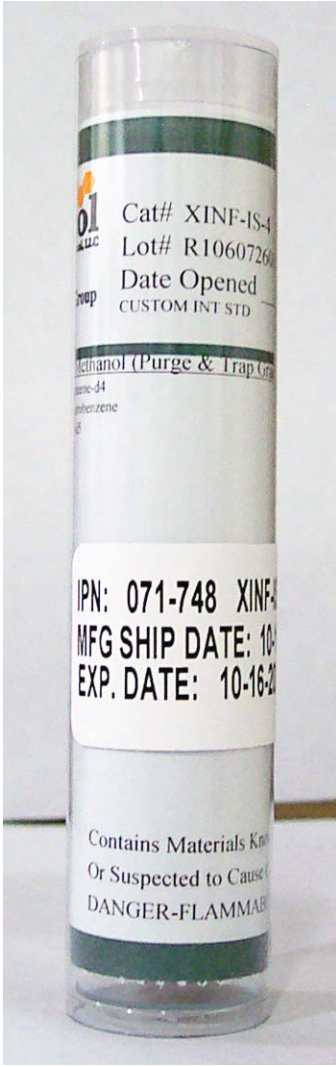
Part Number	Photograph
070-1545 HAPSITE ER Transfer Line Insulation	
600-1131-P30 "Y" Cable Assembly	

Part Number	Photograph
931-402-P1 Sample Needle, Headspace Sampling System	 The photograph shows the product packaging for the 931-402-P1 Sample Needle. It includes a blue box with the Popper & Sons, Inc. logo and address (new hyde park, n.y. 11040). A white label on the box specifies: 1 EA, LOT 5L 14200F, PART# 931-402-P1 REV:D, and SPEC- SAMPLE NDLE. Below the box, the sample needle is shown in its clear plastic packaging, along with two small metal fittings in separate clear bags.

IPN d1d30a1-a

Part Number	Photograph
070-1204 40 mL Headspace Vials with black polypropylene cap and 1.5 mm PTFE / silicone septum (case of 100)	

Part Number	Photograph
931-702-G10 Vial Needle Guide 10 each	

Part Number	Photograph
071-748 Performance/ Internal Standard, Headspace Sampling System standard in methanol, 1.2 mL	 Comprised of four components: ♦ 250 µg/mL 1,4 Dichlorobenzene-d4 ♦ 500 µg/mL Bromopentafluorobenzene ♦ 250 µg/mL Chlorobenzene-d5 ♦ 250 µg/mL Fluorobenzene

Part Number	Photograph
930-4151-P1 VX Conversion Pads for HSS 10 packs of 5 pads	

3.3 SituProbe™ Sampling System

Part Number	Photograph
932-220-G1 HAPSITE Smart/Smart Plus SituProbe Sampling System	
Included in the Ship Kit:	
♦ 932-200-G1 SituProbe, 6' ♦ 036-0015 Strap ♦ 070-290 Strap assembly instructions ♦ 931-401-P2 Transfer line ♦ 070-1099 Red caps for transfer line ♦ 931-405-P1 Insulation transfer line ♦ 932-700-G1 Sample collection tube ♦ 600-1131-P30 "Y" Cable assembly ♦ 059-0329 Quick Disconnect N2	
NOTE: Yellow lid color changing to black in 2010	

Part Number	Photograph
932-220-G2 HAPSITE ER SituProbe Sampling System	 Included in the Ship Kit: ♦ 932-200-G1 SituProbe, 6' ♦ 036-0015 Strap ♦ 070-290 Strap assembly instructions ♦ 931-210-G1 Transfer line ♦ 070-1099 Red caps for transfer line ♦ 070-1545 Insulation for transfer line ♦ 932-700-G1 SituProbe vessel and plugs ♦ 600-1131-P30 "Y" Cable assembly ♦ 059-0329 Quick Disconnect N2 NOTE: Yellow lid color changing to black in 2010

Part Number	Photograph
940-700-G1 SituProbe Vessel and plugs	

Part Number	Photograph
931-401-P2 Standard 4' Transfer Line for the HAPSITE Smart/Smart Plus and the Headspace/ SituProbe	
931-401-P1 Standard 6' Transfer Line for the HAPSITE Smart/Smart Plus and the Headspace/ SituProbe	

Part Number	Photograph
931-210-G1 Standard 4' Transfer Line for the HAPSITE ER and the Headspace/ SituProbe	

Part Number

Photograph

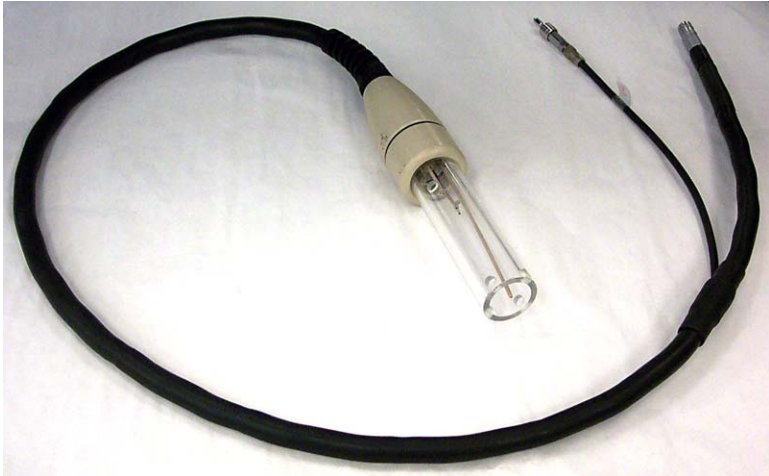
932-403-P1
SituProbe Shipping
Case



IPN d1id30a1-a

Part Number	Photograph
931-405-P1 HAPSITE Smart/Smart Plus Standard Transfer Line Insulation, Thin 49"-compatible with the 4' transfer line IPN 931-401-P2 (shown)	
931-405-P3 HAPSITE Smart/Smart Plus Custom Transfer Line Insulation, Thin 72"-compatible with 6' transfer line IPN 931-409-P1	

Part Number	Photograph
931-408-P1 HAPSITE Smart/Smart Plus Standard Transfer Line insulation, Thick 49"-compatible with 4' transfer line 931-408-P3 HAPSITE Smart/Smart Plus Custom Transfer Line Insulation, Thick 72"-compatible with 6' transfer line (shown)	
070-1545 Standard HAPSITE ER Transfer Line Insulation	

Part Number	Photograph
932-200-G1 SituProbe Replacement Probe Head and Heated Line 6'	

3.4 SPME Sampling System

Part Number	Photograph
934-290-G1 HAPSITE ER SPME Sampling System	 Included in the Ship Kit: ♦ 934-707-G2 SPME Sampling Kit ♦ 074-506-P1 SPME Sampling System Operating Manual CD ♦ 074-507-P1 SPME Quick Use Guide NOTE: For use with the HAPSITE ER only

Part Number	Photograph
934-707-G1 SPME Spare Parts Kit	
Included in the SPME Spare Parts Kit: ◆ SPME sleeve extractor tool ◆ Vespel® washer ◆ Teflon® seal ◆ Inner sleeve	

Part Number

Photograph

934-707-G2
SPME Sampling Kit



Included in the SPME Sampling Kit:

- ♦ (1) Red fiber
- ♦ (1) Blue fiber
- ♦ (1) Black fiber
- ♦ (1) SPME fiber holder

934-707-G3
SPME Red Fiber Kit
(contains 3 red fibers)



IPN d11d30a1-a

Part Number	Photograph
934-707-G4 SPME Blue Fiber Kit (contains 3 blue fibers)	
934-707-G5 SPME Black Fiber Kit (contains 3 black fibers)	

Part Number	Photograph
934-707-G6 SPME Fiber Holder Kit (contains 1 fiber holder)	