

ARS-M™ SERIES PRICE LIST

AUTOMATED REACTOR SAMPLING SYSTEMS

System Price Includes: ARS-M Series Sampling Module with designated number of Input Reactor Interface Modules (iRIMs), standard 6' input Cables, and Reactor Transfer Line Kits; Workstation System with fully configured Control Software (Choose Laptop, Desktop, or 25" Monitor); Ethernet Connection Cable; Operator's Manual; and Power Cables (Specify Country).

System Options: Filtered iRIMs; Filtered oRIMs; SIP Options; range of Cable Lengths.
Analytical Interfaces (Choose HPLC, Nutrient Monitor, Cell Counter and/or Sample Collector); Software Options

ARS-M System Modules and Options *Section 1*

<u>Part Number</u>	<u>Description</u>
B99-0840	Automated Reactor Sampling System .040" ID Tubing Sample from as many as 8 Vessels - Deliver to as many as 4 Instruments
B99-0841	Automated Reactor Sampling System .062" ID Tubing Sample from as many as 8 Vessels - Deliver to as many as 4 Instruments
B99-0440	Automated Reactor Sampling System .040" ID Tubing Sample from as many as 4 Vessels - Deliver to as many as 4 Instruments
B99-0441	Automated Reactor Sampling System .062" ID Tubing Sample from as many as 4 Vessels - Deliver to as many as 4 Instruments
B99-0140	Automated Reactor Sampling System .040" ID Tubing Sample from 1 Vessel - Deliver to 4 Instruments
B99-0141	Automated Reactor Sampling System .062" ID Tubing Sample from 1 Vessel - Deliver to 4 Instruments

Reactor/Fermentor Interface Selections - Select 1 per Reactor Input

<u>Part Number</u>	<u>Description</u>
B99-0088-1.0-SYS	Reactor Transfer Line Kit, .040" Tubing (Standard) Includes universal basic tubing and fittings-Dip Tube Connection
B99-0088-1.5-SYS	Reactor Transfer Line Kit, .062" Tubing (Standard) Includes universal basic tubing and fittings-Dip Tube Connection

Remote Interface Modules and Sample Prep Selections - Select 1 per Reactor Input

B99-0029-1.0-SYS	iRIM Input Fluidic Interface - .040" tubing (Standard)
B99-0029-1.5-SYS	iRIM Input Fluidic Interface - .062" tubing (Standard)
B99-0027-1.0-SYS	iRIM-F1 Input Remote Interface Module with 1 Inline Filter - .040" Tubing (Upgrade) For medium viscosity and/or medium solids content - Requires Filter Element
B99-0027-1.5-SYS	iRIM-F1 Input Remote Interface Module with 1 Inline Filter - .062" Tubing (Upgrade) For medium viscosity and/or medium solids content - Requires Filter Element
B99-0031-1.5-SYS	iRIM-F3 Input Remote Interface Module with 3 Inline Filters - .062" Tubing (Upgrade) For high viscosity and/or high solids content - Requires Filter Element
B99-0120-SYS	Pump, Source (Cable included)
B99-0124-SYS	Cable, Pump Interface for ARS-M

Input Connector Cable Selections - Select 1 per Reactor Input

B99-0039-06-SYS	6' Input Cable, Electronic and Fluidic, .040" Tubing (Standard)
B99-0039-10-SYS	10' Input Cable, Electronic and Fluidic, .040" Tubing (Upgrade)
B99-0039-25-SYS	25' Input Cable, Electronic and Fluidic, .040" Tubing - (Upgrade) - May require pump (B99-0120)
B99-0039-xx-SYS	XX' Input Cable, Electronic and Fluidic, .040" Tubing (Upgrade) - Custom Length
B99-0040-06-SYS	6' Input Cable, Electronic and Fluidic, .062" Tubing (Standard)
B99-0040-10-SYS	10' Input Cable, Electronic and Fluidic, .062" Tubing (Upgrade)
B99-0040-25-SYS	25' Input Cable, Electronic and Fluidic, .062" Tubing (Upgrade) - May require pump (B99-0120)
B99-0040-xx-SYS	XX' Input Cable, Electronic and Fluidic, .062" Tubing (Upgrade) - Custom Length

Computer Selection - Select 1 per System

B99-2003-SYS	Workstation/ Laptop, Fully Configured w/ Control Software
B99-2000-SYS	Workstation/ Desktop, Fully Configured w/ Control Software
B99-0045-SYS	Monitor, 25" Flat Panel - Only available with HPLC interfaces and selected in lieu of a workstation.

Power Connection

B99-Country-SYS	Specify Country, Voltage and Frequency (i.e.: USA, 120V, 60Hz or Germany, 230V, 50Hz)
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ARS-M Input Options – Section 2

Steam-in-Place (SIP) Sampling Options

**Component noted with an * must be purchased from Groton Biosystems.*

<u>Part Number</u>	<u>Description</u>
B99-0056	*SIP Option Controller – One License per ARS-M System
B99-0066	*SIP Control Module - One per Reactor
Choose 1	
B99-0057-1.0	*SIP Transfer Line .040" Tubing – One SIP transfer line kit required per Reactor
B99-0057-1.5	*SIP Transfer Line .062" Tubing – One SIP transfer line kit required per Reactor
B99-0042	SIP, Steam Valves – Requires one set per Reactor (Set contains 4 valves) Does not include Keofitt Sample Valve
B99-0050	SIP, Automated Keofitt Sampling Valve – Requires one per Reactor
B99-0055-40	Pneumatic Keofitt Actuator 40mm - if customer has appropriate manual Keofitt Sampling Valve
B99-0055-52	Pneumatic Keofitt Actuator 52mm- if customer has appropriate manual Keofitt Sampling Valve
B99-1056	License, Groton Biosystems SIP Process Technology for Third Party Use – License for use of SIP Process Technology developed by Groton Biosystems LLC (patent pending), required for each ARS System when Groton Biosystems' software and hardware are not used for SIP control. Requires B99-7003 – OPC, Remote Control of ARS System Software Option

InSitu Filter Probes

<u>Part Number</u>	<u>Description</u>
B99-0220-01	Filter Probe, Filter Assembly- 12" Extension – 12mm HeadPlate Port (does not include filter element)
B99-0225-01	Filter Probe, Filter Assembly- 18" Extension – 12mm HeadPlate Port (does not include filter element)
B99-0210-01	Filter Probe, Replacement , 3"
B99-0171	Filter Probe, Replacement , 2"
B99-0172	Side Port Filter Probe Holder for 25 mm Ingold Port – 52mm Deep (does not include filter element)
B99-0170	40mm Adapter for Side Port Holder
B99-0173	Filter Probe Manual Isolation Valve Assembly

Input Remote Interface Modules (iRIM) and Sample Prep Options

<u>Part Number</u>	<u>Description</u>
B99-0029-1.0	iRIM Input Fluidic Interface - .040" tubing
B99-0029-1.5	iRIM Input Fluidic Interface - .062" tubing
B99-0027-1.0	iRIM-F1 Input Remote Interface Module with 1 Inline Filter - .040" Tubing For medium viscosity and/or medium solids content - Requires Filter Element
B99-0027-1.5	iRIM-F1 Input Remote Interface Module with 1 Inline Filter - .062" Tubing For medium viscosity and/or medium solids content - Requires Filter Element
B99-0031-1.5	iRIM-F3 Input Remote Interface Module with 3 Inline Filters - .062" Tubing For high viscosity and/or high solids content - Requires Filter Element

Input Connector Cables

B99-0039-06	6' Input Cable, Electronic and Fluidic, .040" Tubing
B99-0039-10	10' Input Cable, Electronic and Fluidic, .040" Tubing
B99-0039-25	25' Input Cable, Electronic and Fluidic, .040" Tubing - May require pump (B99-0120)
B99-0039-xx	XX' Input Cable, Electronic and Fluidic, .040" Tubing - Custom Length
B99-0040-06	6' Input Cable, Electronic and Fluidic, .062" Tubing
B99-0040-10	10' Input Cable, Electronic and Fluidic, .062" Tubing
B99-0040-25	25' Input Cable, Electronic and Fluidic, .062" Tubing - May require pump (B99-0120)
B99-0040-xx	XX' Input Cable, Electronic and Fluidic, .062" Tubing - Custom Length

Source Pump

Source Pumps

B99-0120	Pump, Source (Cable included)
B99-0124	Cable, Pump Interface for ARS-M

Autosampler with ARS Interface

<u>Part Number</u>	<u>Description</u>
B99-5004	Autosampler FC-750 – 60 Position Chilled Tray Includes 1 set (60) 15 ml Disposable Septum Sealed Centrifuge Tubes 60 Chilled Positions – Two Trays – 30 Tubes Each



ARS-M Output Options – Section 3

Output Remote Interface Modules (oRIM) and Sample Prep Options

<u>Part Number</u>	<u>Description</u>
B99-0028-1.0	oRIM Output Fluidic Interface Module-.040" Tubing - For Instrument with self-contained cleaning system
B99-0028-1.5	oRIM Output Fluidic Interface Module - .062" Tubing- For Instrument with self-contained cleaning system
B99-0049-1.0	oRIM-F1 Output Fluidic Interface Module, 1 Staged Inline Filter – .040" Tubing - For HPLC Interface or Equivalent - Requires Filter Element
B99-0049-1.5	oRIM-F1 Output Fluidic Interface Module, 1 Staged Inline Filter .062" Tubing = For HPLC Interface or Equivalent - Requires Filter Element

Output Connector Cables

B99-0030-03-SYS	3' Output Cable, Electronic and Fluidic, .040" Tubing
B99-0030-06-SYS	6' Output Cable, Electronic and Fluidic, .040" Tubing
B99-0030-10-SYS	10' Output Cable, Electronic and Fluidic, .040" Tubing
B99-0030-xx	XX' Output Cable, Electronic and Fluidic, .040" Tubing - Custom Length
B99-0036-03-SYS	3' Output Cable, Electronic and Fluidic, .062" Tubing
B99-0036-06-SYS	6' Output Cable, Electronic and Fluidic, .062" Tubing
B99-0036-10-SYS	10' Output Cable, Electronic and Fluidic, .062" Tubing
B99-0036-xx	XX' Output Cable, Electronic and Fluidic, .062" Tubing - Custom Length
B99-0030-03	3' Output Cable, Electronic and Fluidic, .040" Tubing
B99-0030-06	6' Output Cable, Electronic and Fluidic, .040" Tubing
B99-0030-10	10' Output Cable, Electronic and Fluidic, .040" Tubing
B99-0030-xx	XX' Output Cable, Electronic and Fluidic, .040" Tubing - Custom Length
B99-0036-03	3' Output Cable, Electronic and Fluidic, .062" Tubing
B99-0036-06	6' Output Cable, Electronic and Fluidic, .062" Tubing
B99-0036-10	10' Output Cable, Electronic and Fluidic, .062" Tubing
B99-0036-xx	XX' Output Cable, Electronic and Fluidic, .062" Tubing - Custom Length

ARS-M Options - Sample Collectors

Chilled Sample Collectors - Requires the selection of a vial tray configuration.

<u>Part Number</u>	<u>Description</u>
B99-5000-1.0	Sample Collector FC-750 – Chilled, Single Channel - .040" ID Tubing
B99-5000-1.5	Sample Collector FC-750 – Chilled, Single Channel - .062" ID Tubing
B99-5011-1.0	Sample Collector FC- 750 – Chilled, Dual Channel - .040" ID Tubing
B99-5011-1.5	Sample Collector FC- 750 – Chilled, Dual Channel - .062" ID Tubing
<u>Vial Block Selections for Chilled Sample Collector (Select 1)</u>	
B99-5005-SYS	Vial Trays for Chilled FC-750, 60 Position, 15ml Vials (Standard)
B99-5006-SYS	Vial Trays for Chilled FC-750, 24 Position, 50ml Vials (Standard)
B99-5013-SYS	Vial Trays for Chilled FC-750, 96 Positions, 2ml Vials (Upgrade) Can only be used with B99-5000-1.0 or B99-5011-1.0 (.040" Tubing)

Sub-Zero Sample Collectors - Require the selection of a refrigerant chiller power and vial block configuration.

<u>Part Number</u>	<u>Description</u>
B99-5001-1.0	Sample Collector FC-750 – Sub Zero, Single Channel - .040" ID Tubing
B99-5001-1.5	Sample Collector FC-750 – Sub Zero, Single Channel - .062" ID Tubing
B99-5012-1.0	Sample Collector FC-750 – Sub Zero, Dual Channel - .040" ID Tubing
B99-5012-1.5	Sample Collector FC-750 – Sub Zero, Dual Channel - .062" ID Tubing
<u>Sub-Zero System Refrigerant Chiller Unit (Select 1)</u>	
B99-0034-SYS	Chiller Unit, 120V, 60Hz
B99-0035-SYS	Chiller Unit, 230V, 50Hz
<u>Vial Block Selections for Sub-Zero Sample Collector (Select 1)</u>	
B99-5009-SYS	Vial Tray for Sub Zero FC-750, 60 Position, 15ml Vials (Standard)
B99-5010-SYS	Vial Tray for Sub Zero FC-750, 24 Position, 50ml Vials (Standard)
B99-5008-SYS	Vial Tray for Sub Zero FC-750, 96 Positions, 2ml Vials (Upgrade) Can only be used with B99-5001-1.0 or B99-5012-1.0 (.040" Tubing)

ARS-M Output Options (*continued*) – Section 3

ARS-M Output Options - Analytical Instrument Interfaces

<u>Part Number</u>	<u>Description</u>
B99-0052	Interface Kit, Agilent HPLC, ARS-M w/Agilent Valves (includes oRIM-F1 and Filters)*
B99-0118	Interface Kit, Shimadzu HPLC for ARS-M Series (includes oRIM-F1 and Filters)*
B99-0103	Interface Kit, YSI 2700 Nutrient Monitor*
B99-0104	Interface Kit, YSI 7100 Nutrient Monitor*
B99-0105	Interface Kit, Nova BioProfile Analyzer*
B99-0106	Interface Kit, Innovatis Cedex, Cell Counter*
B99-0023	Interface Kit, Beckman Vi-Cell XR or AS, Cell Counter*

*Analytical Instrument Minimum Requirements:

Agilent HPLC – Standard Autosampler G1329 A/B, Chemstation Revision B.03.01 or later, Firmware: A.06.10 or later (as supplied with ChemStation version)

Shimadzu HPLC: Class-VP Software Version 7.4 SP1, Build 3.2.854

Nutrient Monitors: YSI 2700: Revision 2.41; YSI7100: Revision 2.4
Nova 100 Plus; Nova 300 A/B

Nova 400 Data Management Processor - Program: V5_13_E0D, CRC 11AE, Analytical Processor Program: V300A. CRC 922F, RAM: V501A, CRC 8F6C,Control: V511A, CRC 750B, Math.: V511A, CRC BB78, Constants: V511A, CRC FDCF, Tray Controller Program: V1.0, CRC 322B

Cell Counters: VICELL XR Revision 3.08; VICELL AS Revision 1.02; Cedex RC Revision 1.8.0

ARS-M Parts – Section 4

ARS Computer and Software Options Section 4

<u>Part Number</u>	<u>Description</u>
B99-7001	OPC Analytical Data Interface for ARS - Includes OPC software and interface for ARS only for OPC enabled instruments. Customer must provide OPC software for host system: Nova 400, Nova300, Nova 100, YSI 7100, YSI 2700m, Cedex and ViCELL
B99-7003	OPC, Remote Control of ARS Systems - ARS Controller Software option allowing external OPC control of ARS system by a Reactor Control System (RCS)
B99-9015	OPC, Setup and Training on ARS System – Setup of ARS System and connected instruments for OPC data transfer and Reactor Control Systems (RCS) control of ARS system, and the training of customer personnel in use of maintenance of the ARS system's OPC features.
B99-2003	Workstation/ Laptop , Fully Configured w/ Control Software
B99-2000	Workstation/ Desktop , Fully Configured w/ Control Software
B99-0045	Monitor, 25" Diagonal Widescreen Flat Panel

ARS – Consumables

<u>Part Number</u>	<u>Description</u>
B99-0054	Reagent, Start-Up Kit – Includes 1 set of Cleaning, Sanitizing and Rinsing Agents
B99-6020-6	Reagent, Aseptic Cleaning Agent (Six 1L Bags)
B99-6021-6	Reagent, Aseptic Sanitizing Agent (Six 1L Bags)
B99-6019-4	Reagent, Aseptic Rinsing Agent (Four 5L Bags)
B99-0010	Tubes, 15 ml - Set of 75 Disposable Septum Sealed Centrifuge Tubes
B99-0009	Tubes, 2 ml - Set of 100 HPLC Vials w/ Crimp Seals
B99-0008	Tubes, 50 ml - Set of 25 Disposable Centrifuge Tubes
B99-0174	Tube Caps for 15ml Centrifuge Tubes (100 per package) for use with B99-0175
B99-0175	Septum, Resealable, for 15ml Centrifuge tubes (100 per package)
B99-0076	Filter Membrane – 10 kD NMWC, 47 mm 10 per package
B99-0078	Filter Membrane – 30 kD NMWC, 47 mm 10 per package
B99-0075	Filter Membrane – 50 kD NMWC, 47 mm 10 per package
B99-0077	Filter Membrane – .45 µM, 47 mm 25 per package
B99-0079	Filter Membrane – 5 µM, 47 mm 25 per package
B99-0152	Filter Membrane -10 µM, 47 mm O.D. (25 per package)
B99-0153	Filter Membrane - 20 µM, 47 mm O.D. (25 per package)
B99-0074	Filter Membrane – 60 µM, 47 mm 25 per package
B99-0154	Filter Membrane -- 120 µM, 47 mm O.D. (25 per package)
B99-0133	Filter Assembly, 47mm (No Filter Membranes are included in this assembly)
B99-0080	Filter Screen – 47 mm Stainless Steel
B99-0155	Filter O-ring – Silicone (6 per package)
B99-0156	Sterile Air Filter, Disposable, 0.22 µm

Prices and specifications are subject to change without notice.



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ARS - Spare Parts

<u>Part Number</u>	<u>Description</u>
B99-0300	Reagent Bottles and Lines Kit, ARS-M
B99-0088-1.0	Reactor Transfer Line Kit, .040" Tubing - Includes universal basic tubing and fittings-Dip Tube Connection
B99-0088-1.5	Reactor Transfer Line Kit, .062" Tubing - Includes universal basic tubing and fittings-Dip Tube Connection
B99-0073	Tefzel Tubing 0.040" (1.0 mm) ID (25 Ft per package)
B99-0072	Tefzel Tubing 0.062" (1.5 mm) ID (25 Ft per package)
B99-0098	PEEK Tubing, 0.040" (1.0 mm) ID (25 Ft per package)
B99-0089	Nuts and Ferrules for 0.040" (1.0 mm) ID Tubing (10 sets per package)
B99-0091	Nuts and Ferrules for 0.062" (1.5 mm) ID Tubing (10 sets per package)
B99-0059	Syringe, Replacement, 25 mL
B99-0090	Syringe, Replacement, 10 ml
B99-0064	Syringe Pump, Replacement, 25 mL
B99-0063	Syringe Pump, Replacement, 10 mL
B99-0065	Vibration Dampers, Syringe Pump, (4 per package)
B99-0071	Cable, Ethernet Crossover, CAT5e, 10ft
B99-0169	Cable, Ethernet Straight through, CAT5e, 10ft
B99-0164	Cable, Communications, Sample Collector
B99-0167	Cable, Communications, Dual Channel Sample Collector
B99-0251	Fuses, 1 Amp 250 Volt (10 per package)
B99-0252	Fuses, 2 Amp 250 Volt (10 per package)
	<u>Nova 100, 300, 400 Interface Spares</u>
B99-0046	Gaskets, for Nova Interface (10 per package)
B99-0067	Check Valve, Nova Interface, Luer to Luer (5 per package)
B99-0161	Check Valve, 1 psi, ¼-28 F to ¼-28 M (5 per package)
B99-0092	Cuvette, Replacement for Nova Interface
B99-0168	Cable Communications, Nova BioProfile
	<u>YSI Interface Spares</u>
B99-0093	Cuvette, Replacement for YSI 2700 or YSI 7100
B99-0165	Cable Communications, YSI 2700
B99-0166	Cable Communications, YSI 7100
	<u>Vi-CELL Interface Spares</u>
B99-0095	Cuvette, Replacement for Vi-CELL Cell Counter
	<u>Cedex Interface Spares</u>
B99-0096	Cuvette, Replacement for Cedex Cell Counter
	<u>Agilent HPLC Interface Spares</u>
B99-0157	SS Check Valve
B99-0161	Check Valve, 1 psi, ¼-28 F to ¼-28 M (5 per package)
B99-0121	Tubing Kit, Agilent Interface
	<u>Sample Collector Spares</u>
B99-0069	Needle (Vented), 0.040" (1.0 mm) ID Sample Collector (15 & 50 mL vials)
B99-0070	Needle (Vented), 0.040" (1.0 mm) ID Sample Collector (2 mL vials)
B99-0158	Needle (non-Vented), 0.062" (1.5 mm) ID Sample Collector (15 & 50 mL vials)
B99-0048	Check Valves, Dual Channel Sample Collector (6 per package)
B99-5005	Vial Trays for Chilled FC-750, 60 Position, 15ml Vials
B99-5006	Vial Trays for Chilled FC-750, 24 Position, 50ml Vials
B99-5013	Vial Trays for Chilled FC-750, 96 Positions, 2ml Vials Can only be used with B99-5000-1.0 or B99-5011-1.0 (.040" Tubing)
B99-5009	Vial Tray for Sub Zero FC-750, 60 Position, 15ml Vials
B99-5010	Vial Tray for Sub Zero FC-750, 24 Position, 50ml Vials
B99-5008	Vial Tray for Sub Zero FC-750, 96 Positions, 2ml Vials Can only be used with B99-5001-1.0 or B99-5012-1.0 (.040" Tubing)
	<u>SIP Spares</u>
B99-0159	Keofitt Membrane Seals 52mm(10 per package)
B99-0160	Keofitt Membrane Seals 40mm(10 per package)

Service Programs Section 5

Preventative Maintenance Programs

<u>Part Number</u>	<u>Description</u>
B99-0084	PM Contract – ARS-M84x Automated Reactor Sampling System Includes one visit to clean the system, pressure test all valves, replace all syringes, and replace all Isolation Valves in the iRIMS. Additional charges will apply if extra parts are required. Price does not include travel.
B99-0084-PMKit	PM Parts Kit – ARS-M84x Automated Reactor Sampling System Includes parts only.
B99-0083	PM Contract – ARS-M44x Automated Reactor Sampling System Includes one visit to clean the system, pressure test all valves, replace all syringes, and replace all Isolation Valves in the iRIMS. Additional charges will apply if extra parts are required. Price does not include travel.
B99-0083-PMKit	PM Parts Kit – ARS-M44x Automated Reactor Sampling System Includes parts only.
B99-0082	PM Contract – ARS-M14x Automated Reactor Sampling System Includes one visit to clean the system, pressure test all valves, replace all syringes, and replace all Isolation Valves in the iRIMS. Additional charges will apply if extra parts are required. Price does not include travel.
B99-0082-PMKit	PM Parts Kit – ARS-M14x Automated Reactor Sampling System Includes parts only.
B99-0146	PM Contract – ARS800 Automated Reactor Sampling System Includes one visit to clean the system, pressure test all valves, replace all syringes, and replace all Isolation Valves in the iRIMS. Additional charges will apply if extra parts are required. Price does not include travel.
B99-0146-PMKit	PM Parts Kit – ARS-M800 Automated Reactor Sampling System Includes parts only.
B99-0147	PM Contract – ARS400 Automated Reactor Sampling System Includes one visit to clean the system, pressure test all valves, replace all syringes, and replace all Isolation Valves in the iRIMS. Additional charges will apply if extra parts are required. Price does not include travel.
B99-0147-PMKit	PM Parts Kit – ARS-M400 Automated Reactor Sampling System Includes parts only.
B99-0148	PM Contract – ARS100 Automated Reactor Sampling System Includes one visit to clean the system, pressure test all valves, replace all syringes, and replace all Isolation Valves in the iRIMS. Additional charges will apply if extra parts are required. Price does not include travel.
B99-0148-PMKit	PM Parts Kit – ARS-M100 Automated Reactor Sampling System Includes parts only.

Software Annual Maintenance Agreement

<u>Part Number</u>	<u>Description</u>
B99-0142	Software Contract – ARS-Mxxx Automated Reactor Sampling System Includes software updates, support via remote access (Internet Access Required), phone, and email to help install new software, help migrate existing ARS configuration parameters and methods to new software installation, and remote access. Onsite upgrades are available and additional charges will apply based on time and travel expenses.

Technical Support Agreement - Includes technical support via phone, fax and email to help with ARS sample cycle runtime parameters (configuration); help with method development and sample cycle scheduling; help with individual instrument OPC server tag configuration; and remote debugging. Onsite support is available and additional charges will apply based on time and travel expense.

<u>Part Number</u>	<u>Description</u>
B99-0143	Technical Support Contract ARS-M Automated Reactor Sampling System - Per Hour
B99-0144	Technical One Year Support Contract ARS-M Automated Reactor Sampling System (Block of 20 Hours)
B99-0145	Technical One Year Support Contract ARS-M Automated Reactor Sampling System (Block of 40 Hours)

Services

<u>Part Number</u>	<u>Description</u>
B99-9000	System Set-up / Installation and Training. Includes Travel Expenses
B99-9001	Advanced System Training
B99-8003	Extended Warranty
B99-8002	Custom Service Agreement
B99-9013	Webinar Training (1.5 Hours)



ARS – Value Added Resellers *Section 6*

Agilent HPLC Equipment

<u>Part Number</u>	<u>Description</u>
AG-993967-902	Agilent Eclipse XDB-C18 4.6x 150 5u Analytical
AG-G1103-61611	Agilent General Purpose Cable GPIO Open End
AG-G1315D	Agilent 1200 Series Diode Array Detector std flow cell instrument
AG-G1316-68708	Agilent Column Connection Capillary Kit
AG-G1316A	Agilent 1200 Thermostatted Column Compartment, 2PS/10PT Valve
AG-G1321A	Agilent 1200 Fluorescence Detector
AG-G1329A	Agilent 1200 Series Autosampler
AG-G1330B	Agilent Thermostat for ALS/FC/Spotter
AG-G1351A	Agilent 1200 External Contacts/ BCD Board
AG-G1354A	Agilent 1200 Quaternary Pump w/ Degasser
AG-G1364-84516	Agilent Tray Holds 215 Tubes
AG-G1364C	Agilent 1200 Sample Collector Analytical Scale
AG-G2185BA	Agilent HPLC ChemStation Spectral License
AG-G2215BA	Agilent HPLC 2D License Bundle w/ PC
AG-H5949A	Agilent Supplemental Installation One Hour

Shimadzu HPLC Equipment

<u>Part Number</u>	<u>Description</u>
SH-220-91398-20	CBM-20A w/ Network Switch
SH-220-91413-02	1 Liter Bottle/ Cap/ Res Tray Package
SH-228-45001-32	LC-20AT Solvent Delivery Unit
SH-228-45015-32	FCV-20AH2 High Pressure, 2 Positions, 6 Port Valve
SH-228-32211-13	10 µl Sample Loop for RH-7725i
SH-228-45009-32	CTO-20A Column Oven Control
SH-228-45095-32	RID-10A, 120 V, Refractive Index Detector
SH-220-91436-00	EZ Start V7.4 S/W, 32 Bit
SH-1 yr warranty	1 Year Warranty Effective Upon Installation
SH-Installation Services	Training and Customer Familiarization

YSI Nutrient Monitors

<u>Part Number</u>	<u>Description</u>
YSI-7100-06A	7100 Multiparameter Bioanalytical System (2 biosensors and 1 ISE Module) with Starter Kit
YSI-2700D	2700D Monitoring Analyzer with Starter Kit





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