

Isco, Inc.

Fraction Collectors

*"Providing scientists with reliable
LC collection for over 40 years."*

- Universal interfacing
- Big tube capacities
- Small footprints
- Coldroom friendly
- Reliable



Isco, Inc.

Isco Is...

- ...a designer, manufacturer, and worldwide marketer of instruments used in the laboratory and field for water pollution monitoring, industrial quality control, environmental testing, and biological research.
- ...an ally in the quest to restore and maintain the quality of water. Our environmental instruments help industry, governmental agencies, and consulting engineers monitor wastewater and surface water.
- ...dedicated to offering outstanding instrumentation products and services that focus on water quality, environmental testing, industrial quality control and pharmaceutical research.



Isco Does...

- Focus on customers
- Value employees
- Work together
- Embrace change
- Have a passion for performance

Isco's Customers...

- ...use our innovative, technology-based instruments to improve the quality of life on our planet.
- ...are scientists concerned with purifying and analyzing the components of a wide variety of materials, including foods, plastics, pharmaceuticals, and biologicals.



Isco Fraction Collectors

First choice - for the best reasons

Our fraction collectors feature...

- Coldroom-friendly design with moisture-resistant materials and vital components that remain heated even when the system is not in use.
- Resistance to laboratory environments through the use of corrosion-resistant polypropylene, stainless steel and Halar.
- Compliance with CE and CSA guidelines.
- Easy cleaning and maintenance.
- Superior Isco customer support.

Foxy® 200



Foxy® Jr.



Retriever® IV



Retriever® II



Retriever® 500



Isco Fraction Collectors

Isco fraction collectors are the first choice in thousands of laboratories worldwide.

Forty years ago Isco delivered the first fraction collector to scientists who were involved in agricultural research. There simply was nothing available that would consistently and automatically collect the samples needed for the study. Isco's founder, Bob Allington, developed an automatic fraction collector which collected the samples that were critical to their research.

Since then more than 30,000 laboratories have chosen Isco fraction collectors to reliably collect the samples critical to success.

Isco's innovative fraction collectors reflect the knowledge that has been gained. You can see it in the choice of materials, simple user interfaces, wide variety of options and day-to-day reliability that keep our customers coming back again and again.



Foxy Fraction Collectors

Isco was first in 1980 with x-y fraction collectors and now with over 24,000 Foxy systems delivered, we remain the first choice in the industry.

Foxy fraction collectors offer unmatched capabilities for interfacing with any chromatography equipment.



Foxy® Jr.



Foxy® 200

Easy scale-up

When you need increased amounts of purified product, Foxy makes it easy to jump from method development to automated production LC. Collect unlimited volumes in off-deck containers with a choice of funnel racks.



You can trust Foxy collectors

Foxy thrives in your coldroom. Cold and condensation-proof design, using continuous warming, protects internal components in humid environments, even when turned off. Another plus for coldroom operation is that Foxy operates on 14 volts supplied by a wall transformer on the end of a thin, low-voltage cord that's easy to route past your refrigerator door gasket.

The Versatile Foxy Fraction Collectors use just about any tube or vial.

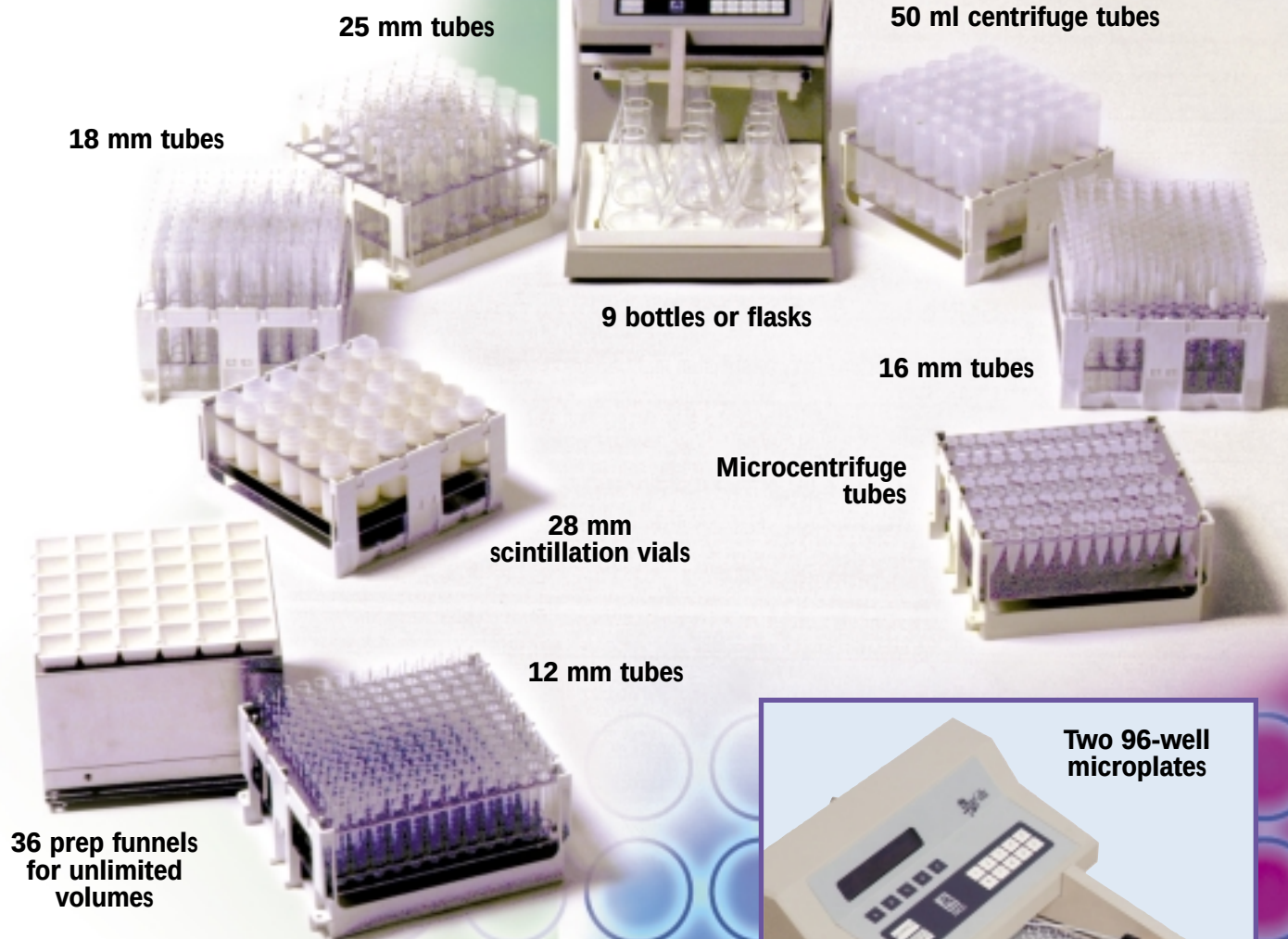
Rigid, warp-proof racks hold test tubes from 12 to 25 mm diameter; 1.5 and 50 ml centrifuge tubes; 28 mm or mini scintillation vials; and even 96-well microplates. Numbered positions help you locate fractions easily. For large preps, put flasks directly on the tray, collecting only desired peaks and diverting the rest to waste.

NEW!

Disposable polypropylene half-racks hold 72 fractions with no glassware handling. Foxy 200 holds four; Foxy Jr. holds two.



Sample included FREE with each Foxy.





Fraction Collector

Foxy 200 collects fractions *your* way for HPLC, classical LC, and production LC. It cuts peaks and controls valves and pumps to automate your protocols. You'll also get tremendous capacity – up to 288 tubes or 72 outboard containers – in only 29 cm of bench width. No wonder an Isco Foxy is the first choice in thousands of labs worldwide!



Key Features

- Collect uniform fractions by time, drop count, or pumped volume.
- Collect peaks of interest separately using any combination of slope, level, and time windows.
- Collect up to 10 flow streams.
- Expand capacity to over 1,000 tubes by connecting up to 4 Foxy 200s.
- Collect in the containers that suit your application.
- Easy interfacing.
- Built-in fault prevention.



Quick setup—Foxy 200's easy-to-read display and intuitive programming make setup quick and error-free.

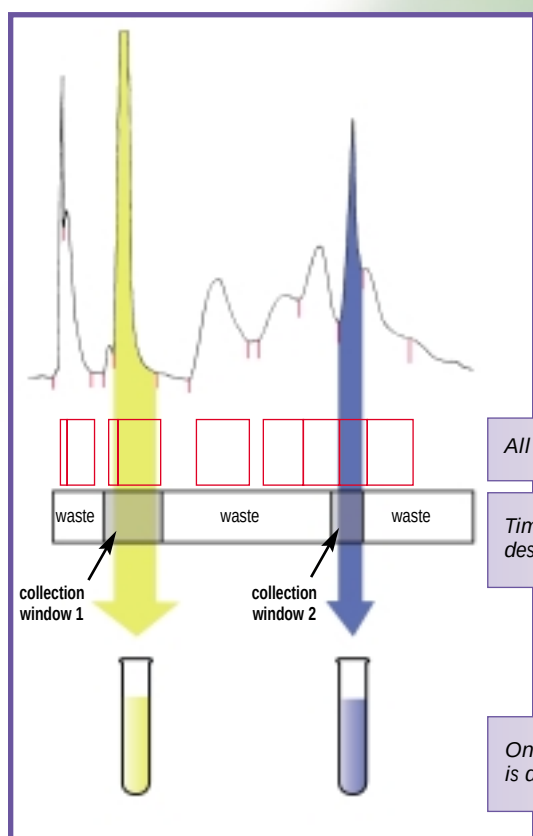
Collect only your peaks of interest.

Foxy 200 reliably separates peaks by monitoring detector output, so you don't have to expend glassware on no-interest effluent. Combine this with time windows, level sensing, and waste diversion for the ultimate labor-saving collection of just the material you need.

Foxy slope detection provides the most accurate peak separation available.

Level sensing collects peaks above any selected detector threshold, enabling "heart-cut" collection of the concentrated part of the peak.

Time windows let you specify intervals during the runs when fractions are to be collected, and can be combined with peak detection to select only the peaks you want.



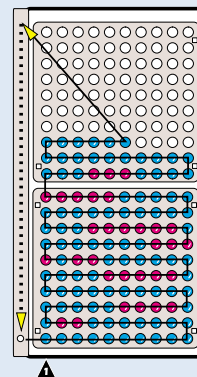
All peaks detected by slope.

Time windows scheduled to bracket desired peaks.

Only desired peaks are collected. Waste is diverted or collected separately.

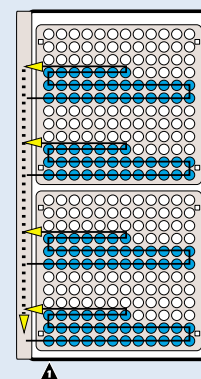
Foxy 200 is ready to handle your collection scheme

Only a few of the possibilities.



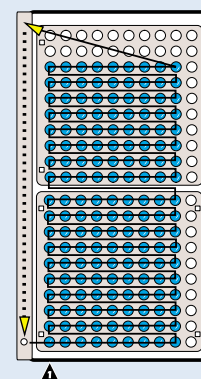
Peak separation.

Fraction collection with consistent collection drop count. Peaks (red) are separated.



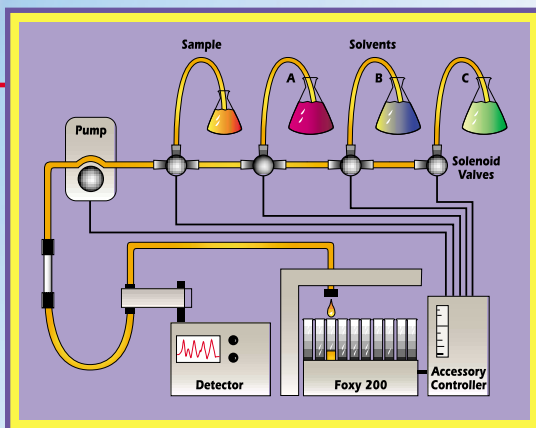
Multisource collection.

No tricky programming is required: just select "4-column".



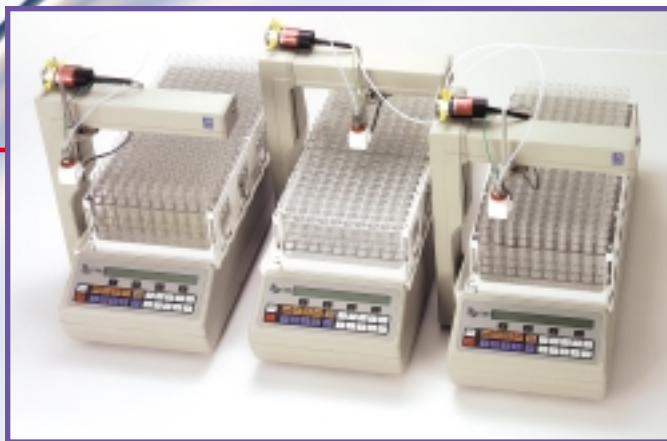
Multiple separations.

In this example, 18 injections are collected in their own rows, always starting at the left end.



Foxy 200 System Automation – no computer needed!

With the optional Foxy 200 valve controller you can automate solvent- or buffer-switching, generate gradients, inject samples, and regenerate or back-flush columns. The valve controller has 6 outputs for valves, and 2 for pumps and other higher-current accessories. Up to 40 timed events can be controlled and continue even after Foxy shuts down.

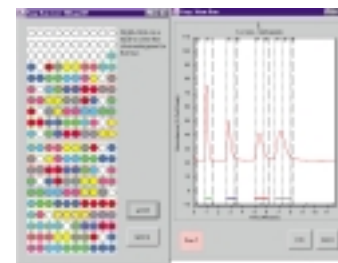


Collect from one stream with multiple Foxys

If you need a LOT of tubes, you can connect up to 4 Foxy 200s.

PeakTrak™ Software

Sample and fraction tracking



PeakTrak™ saves time and eliminates errors by tracking samples and identifying peak fractions. The Windows-based software uses color-coded graphics to identify fractions with collection tubes, and works with any system using an Isco Foxy fraction collector and detector with analog output.

Organic and Bio Purification Systems

Foxy 200 is a key component of these high-productivity systems.

See separate literature for details. **Call 1-800-228-4373**



CombiFlash Optix 10 Parallel Organic Purification

- Up to 10 samples at once
- UV detection on all channels
- Custom gradient for each sample
- Normal and reverse-phase 20 mg to 3 g sample loads



CombiFlash Sq16x Open-Access Organic Purification

- Up to 16 samples sequentially
- On-line detection with peak cutting
- User-defined method for each sample
- Normal and reverse-phase; 20 mg to 10 g sample loads



ProTeam LC System 320 Gradient Biopurification

- Complete low-pressure system for protein separations
- Run any 2-buffer gradients at up to 25 ml/min and 30 psi
- Biocompatible
- Coldroom friendly

Foxy 200 Ordering Information

Foxy 200 Fraction Collector	68-2130-002
Specify your choice of included racks when ordering.	
CombiFlash Foxy 200, for organic purification	68-2130-010
Organic compatible. Includes grounded drop former, Teflon diverter valve, and racks for 16 mm tubes.	

EXTRA RACKS

Foxy disposable half-racks, 6 x12 array, 7.5 ml fractions. Pkg. of 8	68-2137-121
Foxy 200 holds 2 racks. Per each, for:	
(144) 12 mm dia. tubes	68-2137-041
(144) 13 mm dia. tubes	68-2137-042
(60) 1.5 ml microcentrifuge tubes	68-2137-048
(100) 16 mm dia. tubes	68-2137-043
(72) 18 mm dia. tubes	68-2137-044
(72) MiniVials	68-2137-047
(36) 28 mm dia. scintillation vials	68-2137-046
(36) 25 mm dia. tubes	68-2137-045
(36) 50 ml cone-bottom centrifuge tubes.....	68-2137-064
(9) Zymark TurboVap tubes (200 ml) For use with Foxy 200 XT only.....	68-2137-066
(2) 96-well microplates.....	68-3877-006
Funnel tray for 12 or 13 mm tubes. Prevents lost drops. Polypropylene. Pkg of 10	68-2137-013
Microcollection tray with (72) 0.6 ml conical wells. Polypropylene. Use in pairs, with 12 or 13 mm rack. Pkg of 10	68-2137-014
Preparative rack, 36 Halar funnels. Foxy 200 holds 2 racks. Max flow 1.0 liters/min. Includes 50' of vinyl tubing, 1/4" ID.	68-3877-003
Preparative rack, 26 Halar funnels. Foxy 200 holds 1 rack. Max flow 5 liters/min. Includes 50' of 3/8" ID Tygon tubing.....	68-2137-060

FOXY 200 VALVES *(Foxy valve controller not required)*

Standard-flow valves (up to 100 ml/min). Each includes mounting bracket and fittings for 1/8" and 1/16" OD tubing.	
KelF Security valve, (on/off) for pressures up to 30 psi	68-2137-052
KelF Diverter valve (three-way) for pressures greater than 30 psi.....	68-2137-051
Teflon® Diverter valve (three-way) for pressures greater than 30 psi.....	68-2137-067
High flow valves (up to 5 liters/min). Each includes compression fittings for 1/4" and 3/8" OD tubing	
Teflon Security valve, (on/off) for pressures up to 30 psi.....	68-2137-056
Teflon Diverter valve, (three-way) for pressures over 30 psi	68-2137-057

FOXY 200 ACCESSORY CONTROLLER

External component interface and additional valve control. System automation for Foxy 200 only	68-2137-049
Valves for Foxy 200 accessory controller only	
2-way KelF valve, up to 100 ml/min	68-2137-053
3-way KelF valve, up to 100 ml/min	68-2137-050
3-way Teflon valve, up to 100 ml/min	68-2137-068
2-way Teflon valve, up to 4.5 liter/min	68-2137-055
3-way Teflon valve, up to 4.5 liter/min	68-2137-054

FOXY 200 GRADIENT FORMERS

With stainless steel mixing chamber, 10-100 ml/min.....	68-3877-057
With polymer mixing chamber, 0.1-25 ml/min	68-3877-055

COLLECTION ADAPTERS AND BOTTLES

Adapter kit to convert standard Foxy 200 to prep 10 version. Includes preparative rack 68-2137-060, plus all parts needed to use 1/4" ID inlet tubing	68-2137-059
4-column adapter.....	68-2137-058
Glass, 400 ml bottles with caps, case of (36), with drop counter adapter. Bottles stand directly on Foxy 200 tray. No rack required.	68-2137-062
Polyethelene, 500 ml bottles with caps, case of (32), with drop counter adapter. Bottles stand directly on Foxy 200 tray. No rack required.	68-2137-063
Foxy 200XT adapter kit. Converts standard Foxy 200 to XT version for collection into vessels over 180 mm tall	68-2137-065
Multiple CombiFlash Foxy 200 Connection kit for Sq16x. Includes cables, tubing, and fittings to connect one additional CombiFlash Foxy 200. Up to 3 additional units can be connected to Sq16x.	68-2139-024

CABLES

UA-6 connect cable.....	68-1020-211
Tris® connect cable	68-1020-204
Non-Isco detector cable	68-1010-119
Non-Isco pump control cable (117V only).....	68-1010-103
Foxy to HP1100	60-5394-407
Cable used to connect (2) Foxy 200 Fraction Collectors	60-5394-408
Cable used to connect (3) Foxy 200 Fraction Collectors	60-5394-409
Cable used to connect (4) Foxy 200 Fraction Collectors	60-5394-405
Cable used to connect (5) Foxy 200 Fraction Collectors	60-5394-410

SOFTWARE, SPARE PARTS, USER MANUAL

PeakTrak™ Windows-based sample tracking and data acquisition software	68-2137-108
Foxy 200 spare parts package	68-2139-100
Foxy 200 user manual (1 manual included w/unit).....	68-2133-399

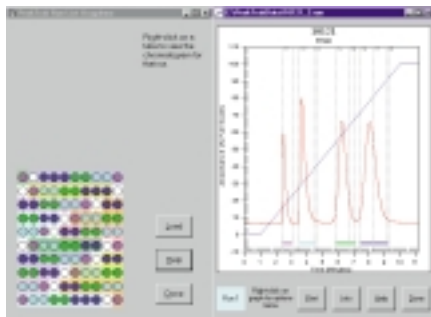


Fraction Collector

Foxy Jr. combines smart collection and extraordinary capacity with reduced cost and space requirements.

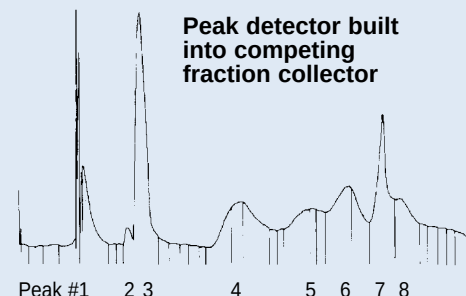
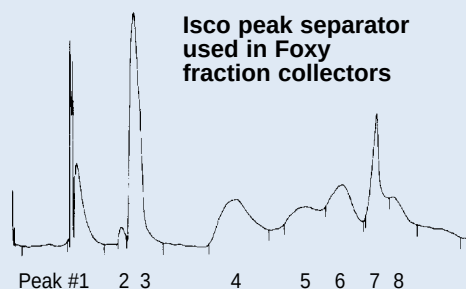
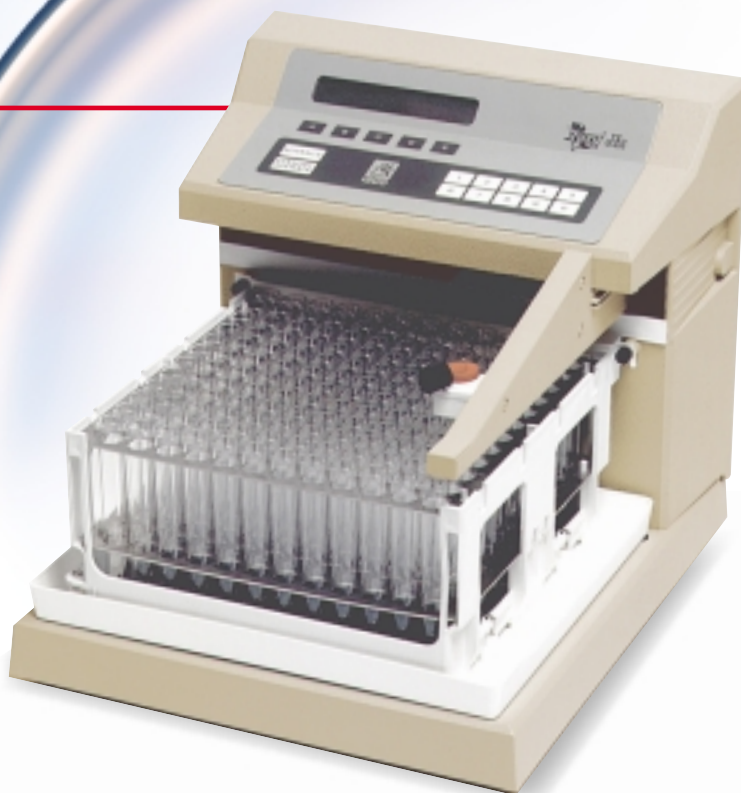
Key Features

- Collect uniform fractions by time, drop count, or pumped volume.
- Collect peaks of interest separately using any combination of slope, level, and time windows.
- Collect in the containers that suit your application.
- Easy interfacing.
- Built-in fault prevention.
- Protection against spills.
- Easy programming.
- 9 program memory.



PeakTrak Software

PeakTrak™ software is Windows-based software that uses color-coded graphics to save time and eliminate errors by tracking samples and identifying fractions with collection tubes. It is compatible with any LC system using an Isco Foxy fraction collector.



Foxys have the peak separator that works.

Isco originated peak collection and has developed it over 30 years to assure you accurate peak cutting when you need it. In this enzyme separation, the Isco peak separator cut all peaks accurately. Only four peaks (2, 3, 7, and 8) were cut correctly by the competing device.

Collect peaks

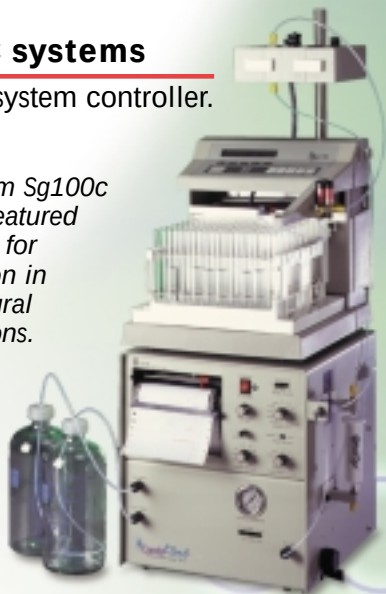
Foxy Jr. lets you choose three methods to identify and separate peaks individually, or in combination to select only the fractions you want.

- Highly accurate slope detection using any LC detector, identifies peaks by their shape.
- Level sensing collects peaks above a selected detector signal threshold. Useful for collecting only the most concentrated part of the peak.
- Time windows collect important fractions by known retention time. When combined with slope or level sensing, only certain desired peaks are selected, diverting other peaks and baseline effluent to waste.

Complete LC systems

with Foxy Jr. as system controller.

CombiFlash System Sg100c (right) is our full-featured "personal" system for organic purification in synthetic and natural product applications.



ProTeam LC System 210 (left) is a low-pressure gradient system, for purification of proteins and other biomolecules.

Foxy Jr. Ordering Information

Foxy Jr. Fraction Collector	68-3870-001
Includes one rack, please specify when ordering.	
Foxy Jr. Fraction Collector with diverter valve	68-3870-002
Includes one rack, please specify when ordering.	
Foxy Jr. Fraction Collector with security valve	68-3870-003
Includes one rack, please specify when ordering.	
CombiFlash Foxy Jr. Fraction Collector	68-3877-015
Organic-solvent compatible. Includes Teflon diverter valve, grounded drop former, and rack.	
Please specify rack when ordering.	

FOXY RACKS

Foxy disposable half-racks, 6 x12 array, 7.5 ml fractions.

Pkg. of 8	68-2137-121
Foxy Jr. holds one	
(144) 12 mm dia. tubes	68-2137-041
(144) 13 mm dia. tubes	68-2137-042
(60) 1.5 ml microcentrifuge tubes	68-2137-048
(100) 16 mm dia. tubes	68-2137-043
(72) 18 mm dia. tubes	68-2137-044
(72) MiniVials	68-2137-047
(36) 28 mm dia. scintillation vials	68-2137-046
(36) 25 mm dia. tubes	68-2137-045
(36) 50 ml cone-bottom centrifuge tubes, 28-29 mm diameter x 150 mm.	68-2137-064
(2) 96-well microplates	68-3877-006
Prep rack with (36) Halar funnels. Includes 50' of 1/4" vinyl tubing, max flow 1.0 liters/min.	68-3877-003
Funnel tray for 12 or 13 mm racks. Pkg of 10	68-2137-013
Microcollection tray with (72) 0.6 ml conical wells. Use in pairs, with 12 or 13 mm rack. Pkg of 10	68-2137-014

FOXY JR. VALVES (NOT for use with Foxy valve controller)

Each includes mounting brackets and compression fittings for 1/8" and 1/16" tubing. Standard flow, up to 100 ml/min.

Teflon® Security valve (on/off) for pressures up to 30 psi	68-3877-002
Teflon Diverter valve (three/way) for pressures over 30 psi	68-3877-001

VALVE CONTROLLER

System automation for Foxy Jr. only.68-2137-069

Valves for Valve Controller only.

2-way KelF valve, up to 100 ml/min.	68-2137-053
3-way KelF valve, up to 100 ml/min.	68-2137-050
3-way Teflon valve, up to 100 ml/min.	68-2137-068
2-way Teflon valve, up to 4.5 liter/min.	68-2137-055
3-way Teflon valve, up to 4.5 liter/min.	68-2137-054

MISCELLANEOUS

PeakTrak™ Windows-based sample tracking and data acquisition software	68-2137-108
Foxy Jr. Gradient Former. Must be used with a Foxy Jr. and an Isco Tris® pump. Polymer mixing chamber, 0.1 - 25 ml/min	68-3877-053
Foxy Jr. spare parts package	68-3879-100
Foxy Jr. user manual (One manual included with unit.)	68-3873-152

CABLES

Cable for external control of Foxy Jr. by contact closure or TTL I/O	68-1010-119
Cable to Isco Tris pump for volume count and pump shut-off ..	68-1020-204
Cable to UA-6 or V4 for detector signal and event mark	68-1020-211
Foxy to HP1100	60-5394-407

Retriever Fraction Collectors

More than 30,000 of the workhorse Retriever™ fraction collectors have found their way into laboratories throughout the world.

Retrievers were first with their linear motion tube transport system providing a stationary collection point and convenient racks holding small groups of tubes in a range of sizes.

Retriever® IV

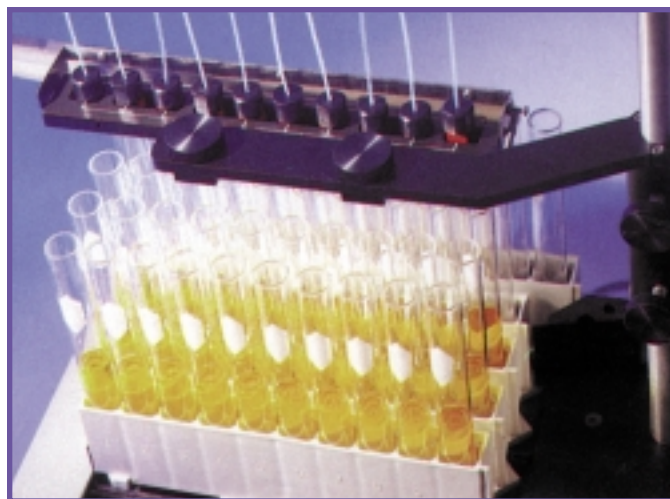
Big Capacity

A Retriever IV is the fraction collector for most labs. It can collect over 9 liters, or up to 190 fractions without removing tubes.



Key Features

- Stationary drop former.
- Collect fractions by time or drop count.
- Size fractions by pumped volume with an Isco Tris® pump.
- Automatic peak cutting with an Isco UA-6 detector.
- Remove filled tubes anytime during a run.
- Collect from up to 10 sources.
- Automatic pump shutoff.
- Protection against spills. Automatically stops or diverts flow before each tube change, at the end of the run, and during a power failure.



Collect from multiple streams

An optional accessory allows Retriever IV to collect from up to 10 sources for DNA alkaline elution, cell perfusion, or any other technique involving fractionation of multiple streams.

Long-term dependability

Coldroom-friendly design allows unimpaired operation and long-term reliability even at 0° C and high humidity. Self-cleaning switches, stainless steel screws, and automatic warming in the standby mode prevent condensation damage.



Retriever IV comes with two heavy-duty stainless steel masts that provide sturdy, stable, and convenient mounting for columns, pumps, and other LC components.

Retriever IV Ordering Information

Retriever IV Fraction Collector68-2260-001
Includes two masts, set of 20 racks (19 running, 1 shutoff)
holding (190) 10 to 18 mm tubes, and instruction manual.
Other racks may be substituted, please specify when ordering.

EXTRA RACKS

Set of 20 racks (19 running, 1 shutoff) for:
10 to 18 mm tubes, 10 per rack (190)68-0827-059
28 mm scintillation vials, 7 per rack (133).....68-0827-061
25 mm tubes, 7 per rack (133).....68-0827-060

RETRIEVER IV VALVES

Each includes compression fittings for 1/8" and 1/16" tubing,
and handles flows up to 100 ml/min.

KelF Security valve (on/off) for pressures up to 30 psi.....68-2177-001
KelF Diverter valve (three/way) for pressures
greater than 30 psi68-2177-002

MISCELLANEOUS

Retriever IV manual (one manual included with unit)60-2263-052
Spare parts package68-2269-100
Multi-source collection accessory.....68-2267-001
(Order 10-position rack, 68-0827-059 or
scintillation vial rack, 68-0827-061 extra)

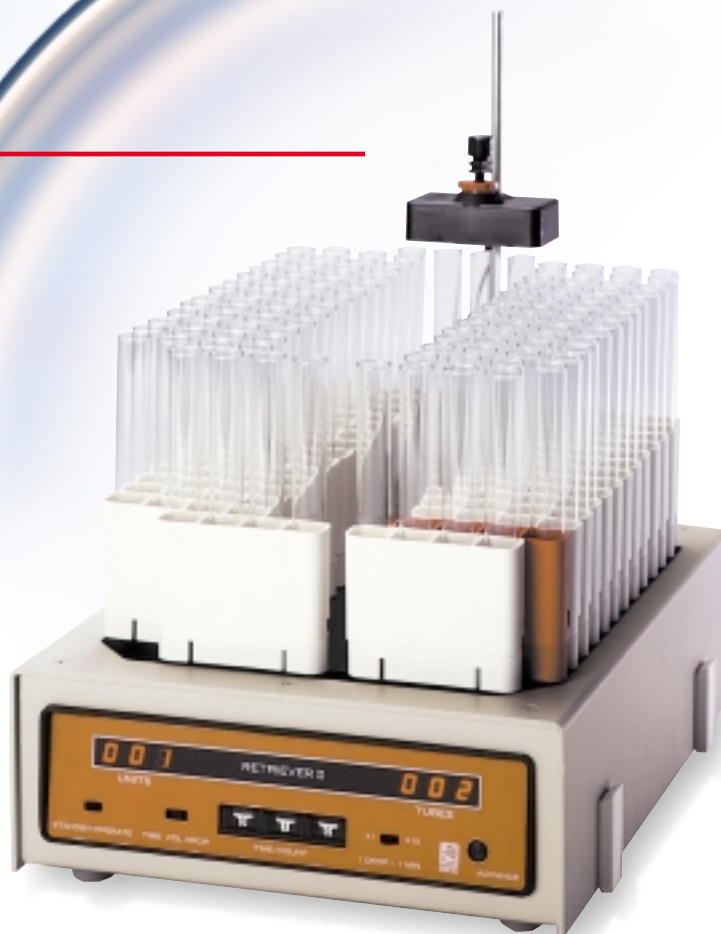
CABLES

UA-6 or V4 connect cable68-1020-213
Tris® pump connect cable.....68-1020-161
Tris pump connect cable and volume count68-1020-159
Non-Isco pump control cable (117V only)68-1010-103
Cable for external control of Retriever IV
by non-Isco detector68-1010-111

Retriever® II

The smallest
large-capacity
fraction collector

Holding 174 small tubes or 116 large tubes in only 27 cm width, Retriever II combines large capacity with a small footprint. Its multiple-rack, linear-movement design lets you easily remove filled tube groups at any time.



Key Features

- Stationary drop former.
- Collect uniform fractions by time or drop count.
- Size fractions by pumped volume when using an Isco Tris® pump.
- Automatic peak cutting is available with an Isco UA-6 detector.
- Automatic pump shutoff.
- Collect from up to four sources at once.
- Protection against spills. Automatically stops or diverts flow before each tube change, at the end of the run, and during a power failure.
- Remove tubes anytime during a run.



The Retriever II top tray unlatches in seconds and can be rinsed or submerged for cleaning. An internal drip shield protects electronics against spills.



Retriever II is also available in this complete isocratic LC system with pump and UV detector. Contact your Isco representative to describe your requirements, and determine which of our bio-purification systems best meets your needs!

Retriever II Ordering Information

Retriever II Fraction Collector68-2180-001
Includes one set of 4-position racks for (116)
10 to 16 mm tubes. Other racks may be substituted;
please specify substitute racks when ordering.

EXTRA RACKS

Extra set of 30 racks (29 running, 1 shutoff) for:
12 and 13 mm diameter tubes, 6-position (174)68-2187-001
10 to 16 mm tubes and glass MiniVials, 4-position (116)68-2187-002
18 mm tubes and scintillation vials, 4-position (116)68-2187-003
Set of 15 racks (14 running, 1 shutoff) for 28 mm
scintillation vials, 3-position (42)68-2187-004

RETRIEVER 500 VALVES

Each includes mounting brackets and compression fittings
for 1/8" and 1/16" tubing. These valves handle up to 100 ml/min.
Kelf Security valve (on/off) for pressures up to 30 psi68-2177-001
Kelf Diverter valve (three/way) for pressures
greater than 30 psi68-2177-002

MISCELLANEOUS

Retriever II 4-column adapter package. Includes special 4-place
racks for 10 to 16 mm tubes. Requires mounting masts
68-2187-005 (not included)68-2187-006
Pair of masts with attaching brackets.68-2187-005
Shelf assembly, 28 x 43 cm. Requires masts (not included)68-1564-046
Retriever II manual (one manual included with unit)60-2183-053
Spare parts package68-2189-100
Dust cover69-2183-028
Stand for 10 racks68-1103-123

CABLES

UA-6 or V4 connect cable68-1020-213
Tris® pump connect cable68-1020-161
Cable for external control of Retriever II
by non-Isco detector68-1010-111

Retriever® 500

Mini Fraction Collector

Only the size of this page, Retriever 500 still holds over a hundred tubes. Retriever 500 takes minimal space in your HPLC or low-pressure LC system, and fits easily in a cramped coldroom.

Its multiple-rack, linear-movement configuration lets you remove filled tube groups at any time.

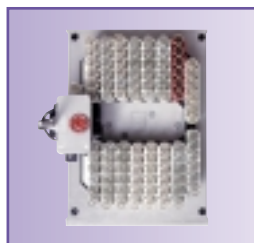


More tubes in less space

Retriever 500 is more compact than other popular fraction collectors of similar or less capacity.

Key Features

- Compact
- Stationary drop former
- Collect uniform fractions by time or drop count.
- Size fractions by pumped volume when using Isco's Tris® pump.
- Automatic peak cutting is available with an Isco UA-6 detector.
- Automatic pump shutoff.
- Protection against spills. Automatically stops or diverts flow before each tube change, at the end of the run, and during a power failure.
- Remove tubes anytime during a run.



Retriever 500

102 tubes
609 cm²
21 cm wide



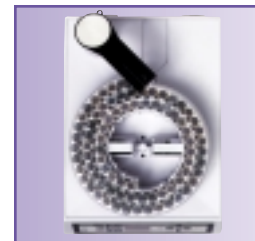
Competitor A

105 tubes
957 cm²
33 cm wide



Competitor B

95 tubes
870 cm²
29 cm wide



Competitor C

80 tubes
792 cm²
24 cm wide



Reliable and durable

Retriever 500's simple drive mechanism uses only one motor and has been proven in over 30,000 similar Isco instruments. An infrared rack sensing device precisely locates when mixed racks are used or when racks are left out. You'll get reliable performance year after year.

Retriever 500 operates on 14 volts supplied by a wall transformer. A remote thin low-voltage cord passes easily by a refrigerator door gasket, and shock hazard is minimized.



Retriever 500 is also available in this complete isocratic LC system with pump and UV detector. Contact your Isco representative to describe your requirements, and determine which of our bio-purification systems best meets your needs!

Retriever 500 Ordering Information

Retriever 500 Fraction Collector68-3880-001
Includes one set of 4-position racks for (68) 10 to 16 mm tubes. Other racks may be substituted; please specify substitute racks when ordering.

EXTRA RACKS

Extra set of 18 racks (17 running, 1 shutoff) for:
12 and 13 mm diameter tubes, 6-position (102).....68-3887-001
10 to 16 mm tubes and glass MiniVials, 4-position (68)....68-3887-002
18 mm tubes and 17 mm scintillation vials, 4-position (68) .68-3887-003
Set of 9 racks (8 running, 1 shutoff) for 28 mm scintillation vials, 29 mm centrifuge tubes, 3-position (24) .68-3887-004

RETRIEVER 500 VALVES

Each includes mounting brackets and compression fittings for 1/8" and 1/16" tubing. Standard flow, up to 100 ml/min.

KelF Security valve (on/off) for pressures up to 30 psi.....68-3887-005
KelF Diverter valve (three/way) for pressures over 30 psi..68-3887-006

MISCELLANEOUS

Retriever 500 manual (one manual included with the unit).....60-3883-021
Spare parts package68-3889-100
Dust cover69-3883-017
Stand for 10 racks68-1103-123

CABLES

UA-6 or V4 connect cable68-1020-217
Tris® pump connect cable.....68-1020-204
Cable for external control of Retriever 500 by non-Isco detector68-1010-119

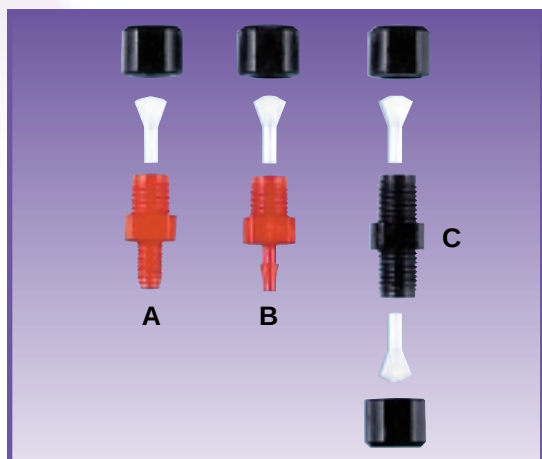
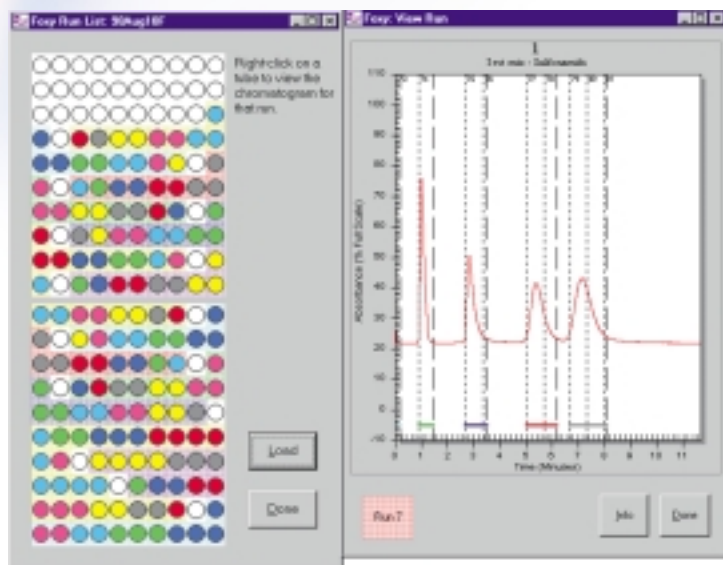
Accessories



PeakTrak™ Software

PeakTrak™ software saves time and eliminates errors by tracking samples and identifying peak fractions. The Windows-based program uses color-coded graphics to locate peak and non-peak fractions, and works with any other system using an Isco Foxy fraction collector and a detector with analog output.

See separate literature for details, or contact your Isco representative to request a PeakTrak demo/preview CD!



Isco Exclusive Tubing connectors

These compression fittings are used for tubing connection to Isco flow cells, peristaltic pumps, valves, and fraction collectors. Each instrument or system is supplied with necessary fittings, but once you discover how convenient these are, you're likely to need more for other lab plumbing.

Tubing & Connectors Ordering Information

- Universal connectors for Isco flow cells, valves, and fraction collectors. Red Halar body, 400 psi, 1/4" x 28 threads. (photo key A). Per 1068-1844-173
- Isco Tris® pump connectors. Barb fits both 1/16" and 1/8" ID flexible pump tubing. Connects to 1/16" or 1/8" OD firm plastic tubing. Red Halar. (photo key B). Per 1068-1617-023
- Unions, for linking of two lengths of 1/16" or 1/8" OD tubing. Black Halar. (photo key C). Per 1068-1847-007
- Flow cell or fraction collector connectors for attaching flexible tubing 1/16" to 1/8" ID. Polypropylene. (not shown). Per 1068-0087-132
- High flow connectors for flow cells. Has 1/8" bore and compression nut and ferrule to connect to 1/4" OD tubing. Polypropylene. (not shown). Per 268-0087-134
- High flow connectors for flow cells. Connects to 3/8" OD tubing. (not shown). Per 268-0087-135
- Teflon® tubing.** (ID x OD). Per 20 feet (6 M):
 - 0.022" x 1/8" White. 1000 psi68-1155-014
 - 0.063" x 1/8" White. 400 psi68-0943-212
 - 0.085" x 1/8" White68-1843-341
 - 0.010" x 1/16" White. 750 psi68-1843-244
 - 0.020" x 1/16" Black68-1843-314
 - 0.034" x 1/16" White68-2133-164



Organizer shelves

Organizer shelves consolidate a complete LC system into minimal bench width. Two 3/4" (19 mm) stainless steel masts hold columns, optical units, the Tris pump and/or accessories. All shelves are covered with easy-to-clean plastic laminate.



ProTeam racks

The same sturdy metal rack with drip tray that's included with Isco's ProTeam systems makes a great organizer for other systems too. Minimize the number of electrical outlets required for your Isco LC system with an attachable power supply.

LC System Organizers Ordering Information

Organizer shelf, 35 cm inside width x 40 cm D	68-3887-007
Organizer shelf, 43 cm inside width x 40 cm D	68-2187-012
LabStacker. Includes two shelves, 39.5 x 61 cm	68-2137-007
ProTeam LC System 210 rack. Fits Foxy Jr. Includes drip tray, power supply not included.....	68-3874-029
ProTeam LC System 320 rack. Fits Foxy 200. Includes drip tray; power supply not included....	68-2137-073
Power supply for ProTeam LC System racks.....	68-3877-009 (Not CE marked)

See fraction collector "Ordering Information" for appropriate selection of shelf unit.

LabStacker™

The LabStacker organizes all your Isco chromatography equipment into a little over two square feet of bench space. It can straddle a Foxy or Retriever IV fraction collector or hold one on its two shelves. Additional space is still available for your detector, peristaltic pump, buffer reservoir, and other equipment.



Isco Fraction Collector Selection Guide



Model	Foxy 200	Foxy Jr.	Retriever IV	Retriever II	Retriever 500
Catalog #	68-2130-002	68-3870-001	68-2260-001	68-2180-001	68-3880-001
Tube Capacity	(288) 12 & 13 mm tubes; (200) 16 mm tubes; (144) 18 mm tubes or MiniVials; (120) 1.5 microcentrifuge tubes; (72) 25 mm tubes, 28 mm scint. vials or 50 ml centrifuge tubes; (21) flasks or bottles to 65mm dia.; (26 or 72) funnels; (4) 96-well microplates	(144) 12 & 13 mm tubes; (100) 16 mm tubes; (72) 18 mm tubes or MiniVials; (60) 1.5 microcentrifuge tubes; (36) 25 mm tubes, 28 mm scint. vials or 50 ml centrifuge tubes; (36) funnels; (9) bottles or flasks to 65 mm diameter; (2) 96-well microplates	(190) 10 to 18 mm tubes; (133) 25 mm tubes; (133) 28 mm vials	(174) 12 & 13 mm tubes; (116) 10 to 16 mm tubes; (116) 18 mm tubes & scintillation vials; (116) 17 mm MiniVials; (42) 28 mm scintillation vials	(102) 12 & 13 mm tubes; (68) 10 to 16 mm tubes; (68) 18 mm tubes & scintillation vials; (68) 17 mm MiniVials; (24) 28 mm scintillation vials
Collection Mode					
Time	✓	✓	✓	✓	✓
Drop	✓	✓	✓	✓	✓
Volume(with Isco Tris® Pump)	✓	✓	✓	✓	✓
Peak Slope	✓	✓	✓(with UA-6 detector)	✓(with UA-6 detector)	✓(with UA-6 detector)
Threshold Level Setting	✓	✓			
Time Windows	✓	✓			
Timer Range	1 second to 99 hr:59 min: 59 s	1 second to 99 hr:59 min: 59 s	0.1 to 99.9 in units of 0.1 min; 1 to 999 in units of 1 min	0.1 to 99.9 min in 0.1 min units; 1 to 999 min in 1 min units	5 to 999 seconds; 0.1 to 99.9 min in 0.1 min units; 1 to 999 min in 1min units
Drop Counter Range	1 to 999,999 drops	1 to 999,999 drops	1 to 999 in units of 1; 10 to 9990 in units of 10	1 to 999 drops in units of 1; 10 to 9990 in units of 10	1 to 999 drops per tube
Event Mark Output	✓	✓	✓	✓	✓
Tube Change Time	340 to 450 ms	200 to 450 ms	300 ms	350 ms	350 ms
User Memory	4 programs	9 programs	Manual	Manual	Manual
Gradient Formation	Yes, with gradient former	Yes, with gradient former	No	No	No
Multi-Column Collection	Yes, 4 & 10 columns	No	Yes, 10 to 20 columns	Yes, 3 & 4-column	No
Parameter Change During Run	Yes	No	Yes	Yes	No
Interfacing	Serial (RS232); analog 10 mV, 100 mV, 1 V detector input; contact closure I/O; time based valve/accessory control	Serial (RS232); analog 10 mV, 100 mV, 1 V detector input; contact closure I/O; time based valve/accessory control	Event mark, Pump shutoff	Event mark, Pump shutoff	Event mark, Pump shutoff
Collection Pattern	Unlimited	Serpentine and Linear	Linear	Linear	Linear
Temperature Range	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Dimensions: W x H x D (cm)	29 x 38 x 61	28 x 27 x 31	32 x 10 (w/o racks) x 61	27 x 10 (w/o racks) x 35	21 x 18 (w/empty racks) x 29
Weight	10.5 kg	4.7 kg	12.2 kg	5.0 kg	3.0 kg
Power Requirements	100/117/234 VAC, 50/60 Hz. 62 W max	100/117/234 VAC, 50/60 Hz. 25 W max	100/117/234 VAC, 50/60 Hz. 56 W max	100/234 VAC; 50/60 Hz; or 117 V 60 Hz only. 15 W max	100/234 VAC; 50/60 Hz; or 117 V 60 Hz only. 15 W max

Isco, Inc.

www.isco.com

4700 Superior Street
Lincoln, NE 68504-1598 USA
Toll free: (800) 228-4373 (USA & Canada)
Phone: (402) 464-0231 Fax: (402) 465-3022
e-mail: info@isco.com