

REACH FOR MORE
CHOICES
IN LC ANALYSIS



FLEXAR™ LC Systems
HPLC and UHPLC
Flexar LC / Flexar FX-20



PerkinElmer®
For the Better



LC SOLUTIONS
FOR ALL YOUR
APPLICATIONS



CHOOSE EXACTLY THE SYSTEM YOU NEED

Whether you need conventional liquid chromatography (LC) or ultra-high performance, with our versatile Flexar solutions you can count on the right technology for the work you do. Flexar HPLC systems provide robust, trouble free-operation and are perfect for routine analysis. For more demanding applications, our Flexar UHPLC gives you the highest sensitivity and resolution, as well as faster results.

You also have flexibility in your CDS choice with either Chromera® or TotalChrom®. With the powerful, easy-to-use Chromera control and data handling software, you get increased range of configurations and the ability to fit your laboratory's application needs. The fully scalable TotalChrom platform delivers full 21 CFR compliance as well as support for PerkinElmer's family of GC products.

PerkinElmer gives you a complete line of LC solutions for all your applications.



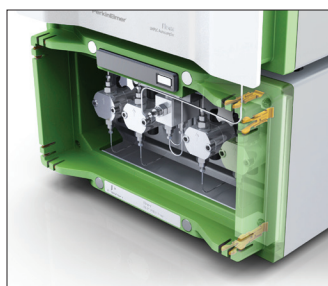
FLEXAR LC / FLEXAR FX-20



FLEXAR FX-20

Ultimate performance: More samples in less time

Ultra high performance means the highest resolution, highest sensitivity and fastest analysis – in other words, a superlative LC system. Flexar FX-20 is the ultimate in UHPLC with maximum throughput and minimum stress for you. Getting more sample information in less time lets you be more productive. Just what you want.



FX-20 pump delivers precise flow for retention time repeatability.

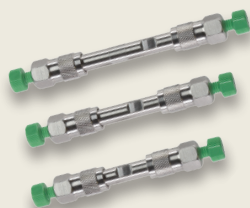
- **Dual-reciprocating piston 18,000 psi pump** provides as much as 10x or more improvement in productivity
- **Integrated piston wash function** keeps pump pistons clean, even with buffers
- **Synchronized injection with piston position** for ultimate retention time precision.
- **View pump pressure profiles real-time** with Chromera CDS
- **Pulse dampener-less design** allows for increased productivity with less recovery time between runs
- **Dual Binary solvent selection** adds more solvent choices to support your applications



Reach for ergonomic efficiency

Everyone working with liquid chromatography recognizes the challenges of optimizing tubing connections between individual LC components. Flexar's elegant ergonomic design provides convenient and efficient tube management. Securing clips (highlighted in yellow above) in all four corners of every Flexar component assures maximum flexibility and optimized chromatography.

SPOTLIGHT ON BETTER MEASUREMENTS



Brownlee SPP Superficially Porous Particle Technology
Generate "UHPLC-like" separations on a standard HPLC system. With Brownlee SPP columns, you can achieve sharper peaks and faster separation results without worrying about high backpressure or compromising column longevity. Unlike other columns, Brownlee SPP columns use 2.7 µm particles comprised of a thin outer shell of high-quality porous silica fused to a solid inner core. This advanced design allows for a shorter diffusion path, keeps backpressure to a minimum and improves column your efficiency. www.perkinelmer.com/spp



FLEXAR LC

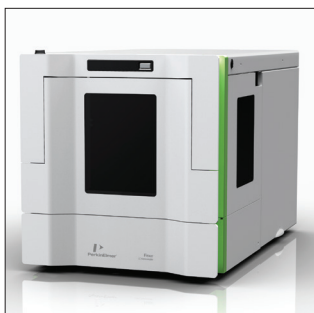
For ease and reliability, there's only one choice.



Unique hidden inter-component drainage system protects the user and system from leak errors.

Let's start with the basics – ergonomics, safety, reliability, ease, performance. You get it all with the Flexar HPLC. The elegant user interface is streamlined to improve throughput and optimize operator safety. And Flexar simplifies your process so you can focus on your application. It's the HPLC system you'll count on day after day.

- **Integrated LC tube management** for streamlined chromatography
- **Hidden plug-and-play drainage** automatically interconnects with components added to system
- **Convenient solvent manager** with integrated degasser and software communication link
- **Built on rugged and reliable PerkinElmer LC technology** for maximum uptime and low cost of ownership



Features easy-open access to the autosampler.

Reach for experience

Flexar is the latest innovation in PerkinElmer's long track record of performance in liquid chromatography. With over 30 years of experience in LC, we understand the challenges you face. Our solutions have been proven in thousands of labs worldwide.

Reach for greener productivity

Labs in every industry are concerned about the waste disposal, cost and shortage issues surrounding solvent consumption. PerkinElmer tackles the problem. Flexar UHPLC systems can deliver as much as 10-fold gain in productivity, while reducing mobile phase solvent consumption and waste disposal needs by more than 15-fold, depending on the application. Now greener operations are within your grasp.

SPOTLIGHT ON BETTER MEASUREMENTS



Certified LC Clean™ Vial, Cap and Septa Kits (N9300707/N9300708/N9300719/N9300720)
We have a variety of LC certified vials, caps and septa made from the finest materials to ensure you experience accurate and dependable measurements. Our vials are made from Type 1 Borosilicate glass, which conforms to all USP, JP and EP requirements. Each product is manufactured using strict quality control standards and are packed in a clean environment to ensure you receive contaminant free product every time.

CHROMERA, THE POWERFULLY EASY CDS

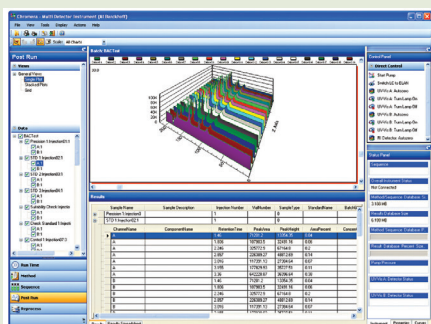
Chromera combines powerful functionality with unmatched ease of use for a more streamlined data handling experience. It's the first CDS developed keeping UHPLC specifically in mind. Any task you wish to perform is only one or two clicks away. And every page is optimized to allow for maximum integration of information.

Powerful Functionality

- Device description technology automatically changes the GUI to reflect the specific LC configuration you are using
- Method editing can be done in real-time with immediate feedback on status
- Run time can be extended during analysis to facilitate your method development process

Unmatched Ease of Use

- Modular design and intuitive "one-click" navigation make operation simple and data easy to locate
- Interface provides "hands-on" control of instruments – for immediate interaction with your chromatographic system



Choose from single plot, stacked plot, grid views or overlays to better assess results. 3D view of data makes for dynamic presentations.

Helpful Wizards

- Point-and-click identification automatically enters data when clicking on a point in your chromatograph
- Decision points automatically pause a sequence so you can check parameters and make any adjustments
- Reporting wizard provides a wide range of templates as well as the ability to customize your own reports

TotalChrom – compliance and enterprise solutions

Even at the highest throughput levels, TotalChrom handles peak detection, integration and analysis with sophisticated algorithms, refined through years of experience in chromatographic data processing.

- Scalable architecture
- Manages in stand-alone, thin-client or client/server environments
- 21 CFR Part 11 compliance features
- Serves as both instrument controller and data manager
- Controls PerkinElmer's line of GC and LC solutions

Complete your ideal LC system with Flexar's full selection of consumables and kits. And be sure to ask about our flexible financing options.

SOFTWARE SOLUTIONS

- Chromera and TotalChrom

PUMPS

- Flexar Binary LC Pump
- Flexar Quaternary LC Pump
- Flexar FX-20 UHPLC Pump

DETECTORS

- Flexar UV/Vis LC Detector
- Flexar FX-UV/Vis UHPLC Detector
- Flexar PDA Plus Detector

AUTOSAMPLERS

- Flexar LC Autosampler
- Flexar FX UHPLC Autosampler

COLUMN OVENS

- Flexar LC Column Oven
- Flexar Peltier Column Oven

SOLVENT MANAGERS

- Flexar Solvent Manager with 3-channel Vacuum Degassing
- Flexar Solvent Manager with 5-channel Vacuum Degassing



Better Solutions for Demanding Applications

From extraction to detection, your sampling success is our main priority. We offer a series of Application Notes designed to provide you with all the information you need to stay relevant within today's ever changing environment. Application notes can be downloaded from your instrument web page.

Flexible Components for Your Success

Pump up performance

More samples done faster. Year after year. That's what you get when you combine high throughput power with the industry's most reliable, rugged family of pumps. We have the performance you want, whatever your analytical flow rate needs may be.

- **10x throughput improvement** with Flexar FX-20 UHPLC pumps
- **10-15x less solvent consumption** for minimal waste disposal, reduced operating costs and greener productivity
- **Proven reliability** through third generation technology
- Ability to upgrade from **binary to quaternary capability** right in your lab



See deeper into your sample

From rugged reliability to outstanding spectral integrity, Flexar Detectors offer fast, sensitive performance for a wide range of applications. Get every detail about your samples and gain deeper insights in your results.

Flexar UV/Vis Detectors

- **Wide range of flow cells** from conventional 10 mm down to high-efficiency micro flow cell for optimum UHPLC peak resolution
- **Captures even the fastest UHPLC peaks** with 100 pts/sec detection on FX model
- **Dual-beam optical design** with choice of deuterium or tungsten source lamps

Flexar PDA Plus Detector

- **Excellent performance**, HPLC or UHPLC
- **Best wavelength accuracy** gives confidence in results
- **Modular flowcell design** for superior sensitivity
- **Highest data acquisition rates** (200 hz)

Inject with greater precision

Best-in-class cycle time. Wide injection volume range. Excellent injection reproducibility. Precisely what you need to increase your sample throughput and efficiency.

- **Injects sample volumes as little as 1 μ L** at pressures up to 18,000 psi with the FX UHPLC Autosampler
- **Loads sample in only 8 seconds** (in partial fill mode)
- **Three injection modes:** full loop, partial fill and μ L-pickup with no sample waste
- **Peltier cooling/heating mode option** for operation at 4 °C to ambient 40 °C. Will reach with 4 °C \pm 2 °C achievable even at ambient temperatures up to 25 °C



Get a higher degree of control

Get precise temperature control for better column performance and more repeatable retention times. With its built-in leak alarm and choice of versions, the Flexar LC Column Oven is the safe, accurate, flexible choice.

- **Two versions:** conventional oven, Peltier (heat and cool)
- **Temperature range of 30 °C to 90 °C** (5 °C to 90 °C for Peltier), controlled to within 0.2 °C throughout the entire temperature range
- **Large, easily accessible column compartment** holds even 30 cm column format



Keep your work flowing

There's nothing stopping you now. Convenience and protection are built-in with the Flexar Solvent Manager.

- **Plug-and-play drainage system** automatically interconnects, even as you add components
- **Removable tray** contains breach of complete bottle
- **Two versions:** 3-channel degassing and 5-channel degassing



THE PERFECT PARTNERSHIP FROM START TO FINISH



The World's Most Trusted Laboratory Services

Nothing has a greater impact on productivity or return on investment than instrument uptime. And no one does more to ensure your chromatography and mass spectrometry systems perform day in and day out than PerkinElmer. With PerkinElmer OneSource® Laboratory Services, you have the world's largest and most respected global service and support network at your disposal. We go beyond just maintenance and repair of instrumentation. We incorporate laboratory asset management as part of our customers' business equation—a partner with proven results in improving efficiencies, optimizing operations and providing cost certainty across the globe.

Our team of certified, factory-trained Customer Support Engineers is just a phone call away, 24 hours a day, seven days

a week. Operating in more than 150 countries with more than 400,000 assets currently under care, OneSource offers the most comprehensive portfolio of professional laboratory services in the industry, including complete care programs for virtually every technology and manufacturer.

By allowing you to consolidate all your service contracts under a single supplier, and by providing responsive, expert technical advice and support at a moment's notice, we ensure your instrumentation—and your lab—is running at optimum levels at all times.

Whether it's care and repair, validation and compliance, asset management and laboratory relocation, software and hardware upgrades or education and training, OneSource is ... the ONE you can count on.

The Right Accessories, Consumables Methods and Application Support

Whether you're testing raw materials or need to perform complex sample analysis, our top priority is to help you run your applications seamlessly and enable optimal instrument performance. We have a complete line of consumables and accessories that span atomic spectroscopy, materials characterization, and chromatography and mass spectrometry techniques. Our portfolio of solutions is designed to ensure you receive accurate, repeatable results – on time, every time – throughout the lifetime of your instrument.

PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
P: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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