MFx Collector
Consistently perform your most critical fraction collection experiments

Zero-loss | Zero-drip
High-throughput | Ultra-reliable
Zero-loss, zero-drip, high-throughput and ultra-reliable: the new microfraction collection system from Trajan LEAP Automation offers you everything you need to consistently perform your most critical collection experiments.

The MFx Collector has been purposefully designed to optimize fraction collection for the sharpest peaks, the maximum dependability, and the greatest ease of use. With smart software features and automation, this analytical fraction collection system is the most reproducible, and highly compatible platform available today.

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The highest capacity, most flexible system available

Fully customizable collection into a variety of plate and vial types, including sealed container collection: 96 and 384 well plate formats, 2 mL and 10 mL vial formats (sealed or open), and 2 mL and 10 mL tube formats.

Compatibility with a broad range of analytical flow rates, sub-ambient temperature control, and user-friendly software are just a few of the features that make this new system the perfect evolution for your fraction collecting needs.

- Completely new, optimally designed software, operating using the powerful Chronos architecture, allows maximum system compatibility.
- Highly efficient scheduling, extensive live-logging, and responsive operation handling routines.
Software - setup for collection has never been easier

Users are provided a specialized screen for easy method and collection sequence creation.

Unlimited fractions can be collected in up to four time windows. This allows the gathering of peaks of interest and unwanted fractions to be sent to waste.

Tabular and visual method creation

- The visual well selection feature empowers users to define collection ranges with a point-and-click, exactly targeting wells without guesswork.
- Similarly, standard tabular sample creation can be confirmed visually for the greatest confidence.
Maintains highest peak resolution with sub-2 second fractions, while providing simplified data correlation, and advanced sample tracking

- Accurate time-point control and real-time collection recording, with live log and visual status options.
- Easy export of collection log to Excel or CSV for simple data correlation.
- Active run graphic display of fraction collection showing real-time status of each fraction position.

Options provided for both serpentine by columns or serpentine by rows.
Smart features offer convenience and reduce error

- Auto-checking of tray locations before run ensures confidence that the collection will be successful.
- Automatically closes open drawer(s) before a run, correcting human error.
- Built-in calculators allow focus to remain on analytical goals without the need to calculate fluidic considerations manually.

Built-in calculators for tubing volume and delay time help with data reporting and reducing user errors.

Reliable engineering and consumables for sharp peaks and reproducibility

- Tubing replacement kits with pre-cut tubing, optimized fittings and ferrules ensure that the MFx Collector, built on the trusted platform, is the most advanced fraction collection automation for zero carryover, sharper peaks and stunning reproducibility.

An example of actual sample collection with the MFx Collector, showing baseline resolution and well-defined peaks.

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Unique dynamic flow reservoir

The precision engineered and long lasting dynamic flow reservoir (DFR) allows the MFx Collector to continue collecting chromatographic flow while the automation is moving between wells, resulting in zero-loss.

The design achieves a turbulence-free, fully optimized flowpath for collection without peak dispersion.

Undisturbed flowpath for minimal peak diffusion

While flow to the buffer region remains constant during both well filling and robot movement, the buffer region will expand as the DFR travels between wells. This retracts any hanging droplets, and avoids peak diffusion by allowing continuous flow. The buffer region contracts to resume dispensing at the next well.

100% of sample flow is collected, with zero-loss.
Advanced hardware

The most flexible system on the market, the MFx Collector solution is available:

• In multiple plate capacities (up to 24 plates).
• With and without sample cooling.
• For 96 and 384 well formats, low profile and deep-well, as well as both sealed and open vials.
• An extra capacity version is available for standard height well plates which extends the maximum plate capacity to 48 plates.

<table>
<thead>
<tr>
<th></th>
<th>MFx Collector</th>
<th>Competitor 1</th>
<th>Competitor 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zero-loss collection (doesn’t divert to waste)</td>
<td>✓</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Cooling to 4°C</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Maximum capacity:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deep well plates</td>
<td>24</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Shallow well plates</td>
<td>48</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Vials/tubes</td>
<td>24 trays (up to 1296 tubes/vials)</td>
<td>215 tubes</td>
<td>768 tubes</td>
</tr>
</tbody>
</table>

Designed for safety and serviceability

• Allows the use of sealed plates or vials for limiting exposure to hazardous samples.
• Sub-ambient storage and large capacities for overnight runs.
• Well-plate sensing and no-drip features ensure no-leak dispensing.
• Easy to access for quick replacement of both the DFR and needles.
• Tubing replacement kits come precut and with matching fittings and ferrules.
• Built upon the platform, with enhanced electronics and firmware.
**MFx Collector**

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<table>
<thead>
<tr>
<th>Specifications</th>
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<td>Maximum flow rate</td>
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<tr>
<td>Minimum dwell time</td>
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<tr>
<td>Collection formats</td>
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<td>Sealed collection</td>
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<td>Computer requirements (minimum)</td>
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Zero-loss, zero-drip, high-throughput and ultra-reliable: the new microfraction collection system from Trajan LEAP Automation offers you everything you need to consistently, perform your most critical collection experiments.

Visit us at www.trajanscimed.com or contact your regional Trajan representative for assistance and further information.

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**Trajan Scientific and Medical**

**Science that benefits people**

Trajan is actively engaged in developing and delivering solutions that have a positive impact on human wellbeing. Our vision revolves around collaborative partnerships that improve workflows, delivering better results.