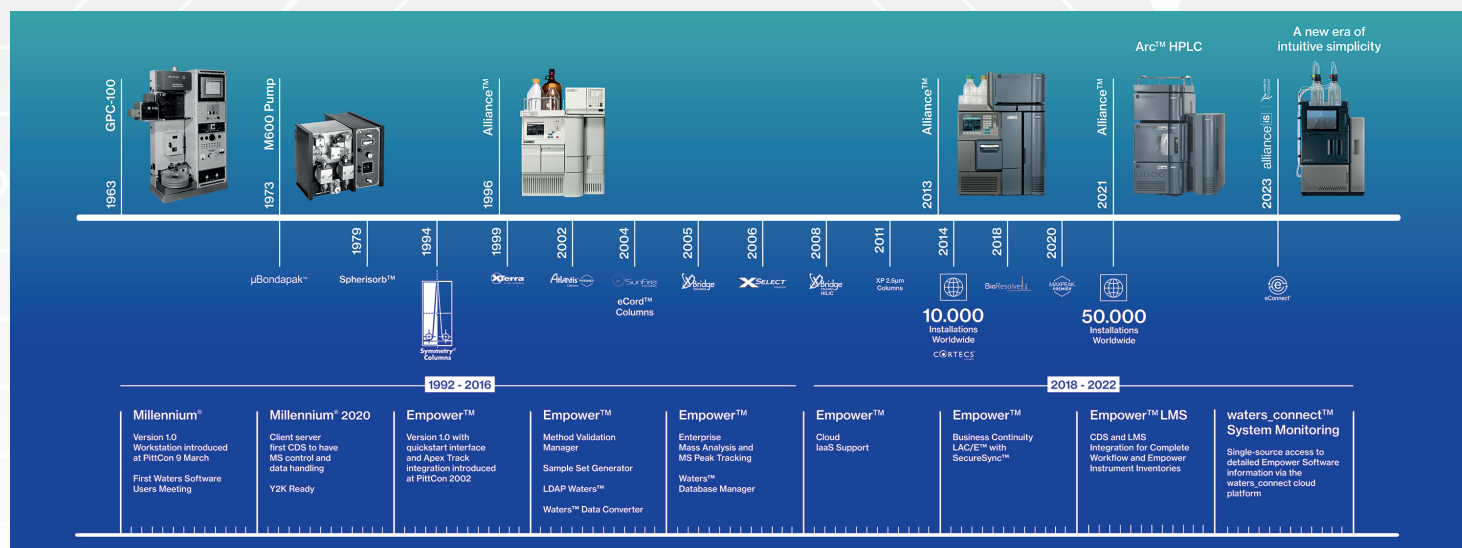


# Waters eConnect™ HPLC Columns

## Propelling decades of HPLC Column Legacy into the Digital Future

As the global leader in HPLC innovation, Waters has a legacy of advancements in liquid chromatography system and column development have spanned over half a century. Ever since  $\mu$ Bondapak columns made their debut in 1973, column innovations have included groundbreaking advancements in particle synthesis, packing processes and device technologies. Waters legacy of developing high-quality, robust HPLC columns that solve the toughest challenges. An evolution in smart-column devices aims to modernize the Waters HPLC column portfolio, comprised of legacy brands scientists have come to know and trust.

### A Legacy of Innovation



Introducing Waters eConnect HPLC columns, a turnkey, digital-device solution for identifying and tracking column use and history. They offer a simple and fully-automated solution for identifying, verifying and tracing HPLC columns and their usage history. Developed with the unique needs of the quality control laboratory in mind, eConnect HPLC columns are the best solution to **enhance useability and boost productivity** in any laboratory.

The eConnect HPLC columns were developed to be fit-for-purpose, enabling automatic column detection and verification. Waters eConnect HPLC columns were designed in conjunction with and for use on **Alliance iS** HPLC systems running **Empower CDS**. eConnect HPLC columns are a vital part of an intuitively simple and modern HPLC solution. The benefits of using eConnect HPLC columns are many and include:

- **Enables compliant labs to eliminate manual logbooks while having an entirely digital audit trail.**
  - Metadata is read from the eConnect column tag device, stored and later retrieved from the Empower database.
- **Allows for pro-active column replacement decisions.**
  - Enabled by column-use data being traced within Empower database.
- **Helps prevent the costly error of running a batch analysis with an incorrect column.**
  - Automatic column detection and recognition by the Alliance iS LC system and Empower CDS.
- **Can mitigate the risk of time-consuming reanalysis resulting from failed (or overused) columns.**
  - Enabled by column-to-method pre-run verification by the Alliance iS LC system running Empower CDS.
- **Simplifies batch-failure troubleshooting.**
  - Root-cause investigations are sped up since column-use and history is readily retrievable from the Empower database.

▶▶ [Learn more at www.waters.com/eConnect](http://www.waters.com/eConnect)

## The eConnect HPLC Column Offering

The eConnect column tag is an entirely optional electronic tag device for Waters HPLC columns whose part numbers mirror those of untagged columns and are extended by an 'RF' (i.e. 186005275RF, compared to the untagged version 186005275). Columns that are equipped with eConnect column tag generally include those HPLC columns packed with resins ranging from 3 µm-sized particles and up that will be utilized on a Waters Alliance iS LC system running Empower 3.8+ CDS.

## eConnect HPLC Column Features

As the result of customer-focused innovation, the eConnect enabled HPLC columns are most valued to labs whose productivity is slowed due to their inability to identify and track column history and usage. eConnect enabled HPLC column advantages are:

- **Ready for use, direct from the box.** Waters HPLC columns are pre-equipped with Column eConnect Tag which carries all column-specific identifying information which negates tag pre-assembly, simplifies system setup and reduces data entry.
- **Securely fitted, unremovable digital tag.** The Column eConnect Tag is locked onto the specified HPLC column body and permanently affixed thereby reducing compliance concerns, simplifies system setup and aids in the column's auto-detectability.
- **Fit-for-purpose device design and placement.** The stationary and strategic position of the Column eConnect Tag enhances the probability of being successfully read and further negates concerns of tag interference when used in temperature-sensitive LC methods.
- **NFC-capable tag enabling access to product-support information.** The eConnect column tag, when in proximity to a capable smart device, can provide convenient access to important column-specific information and knowledge at the Waters website.

## Column Device Comparisons

The eConnect column tag device is a superior option for tracking HPLC column-use and history. Other HPLC column tracking options may require the scientist to assemble the device themselves and/or manually adjust the device tag in order for the LC system to detect the installed column. Alternative options may require aftermarket upgrades of not only hardware, but also system software.

The eConnect column tag is a chip-based device for analytical HPLC columns (3–10 µm particles). eConnect is similar to the Waters eCord™, which is a corded data recording device attached to the column body of ACQUITY UPLC and UHPLC columns only cord-free. However, eConnect operates with Empower 3.8, whose capabilities have also been extended and updated to supply more information. The smart-column ability of eConnect provides a quick overview of column history and use. eCord has the additional capability to store data on the device for portability. Column-specific metadata residing on either of the smart-column devices are automatically imported by and later searchable via Empower CDS.



# Waters™

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