

ClearPeak™ – version 2025.1.1.exe

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Introduction

To meet market needs and customer demands for an industry-standard software interface, the software piloting the puriFlash systems has been extensively rethought and redesigned. Starting by the name, ClearPeak™. This overhaul also affects the user interface, the workflow and the very core of the software, making bugfixes, upgrades and maintenance faster and more efficient.

The aim of this release note is to present the major differences in the interface and the new features/improvements implemented.

Detailed instructions for use, in addition to the training to be provided by Product Management, are available in the software manual ([link to MyAdvionInterchim](#), Purification Generation 5 – IT Tools/ClearPeak Manual).

Important note

To date, data from previous versions are not compatible. This functionality will be implemented in a future version. As a result, this version will only be implemented on new machines coming off the production line.

Systems already installed can be upgraded with this version. The corresponding procedure will be detailed by the Product Manager during the New Product Introduction.

Support contact

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Major evolutions & new features

Interface / Settings / User profile

- General redesign of the user interface.
- Simplified selection of hardware configurations (system and peripherals configuration).

Automatic recognition, connection/disconnection/management of COM ports.

- Simulated mode: very useful for demo, training, service and customer to replay data.
- Manual resizing of the software display.

- Multiple language base: French/English/German/Chinese/Japanese/Spanish. For Japanese users, the use of Windows keyboard is mandatory (integrated keyboard not available yet).
- Simplified creation of user preferences: defaults preferences can now be set directly in the method editor and saved via “Save as default”.
- Full virtual keyboard.
- User profile (GUI): ability to organize and size tabs in each window, and to maintain the display by user profile.
- System settings / maintenance available, now containing:
 - Factory sheet and export traces.
 - UV Detector:
 - lamp life time.
 - Lamp switch on/off.
 - Lamp status via LED.
 - Firmwares: all firmwares for all SW-controlled components are readable.
- User interface optimization, improved user experience:
 - Bounds added when entering values.
 - Warning message for manual stop method.
 - Warning message at log-off / software switch-off message.
- System Settings:
 - Adjustable font size + “dark” or “light” mode.
 - CMS/Tune files management improved: it is no longer necessary to manually replace files in specific folders. Simply select the tune file generated by Mass Express, and the software handles the rest automatically.

Status Panel

- New button « Fill » - « Empty » for refilling or emptying all solvent/waste bottles according to system configuration.
- New “Collection” tab: real time status of the collection and FC arm position.
- New “Mass Detector” + “Mass Split” tab:
 - CMS operate/Standby button.
 - CMS source V, A, T° parameters.
 - CMS splitter status: carrier and dilution pump flow rate; split valve period.

Purge Tab

- Parallelization of the purge processes and their status displayed in the “status bar”.

- NP_to_RP & RP_to_NP purge.
- Waste bottle volume management of XS system.
- Adjustable needle rinsing volume.

Method Tab

- Equilibration “Optimum” time can be extended via the time-picker window from the equilibration tile.
- Conditional collection mode (Advanced).
- Detection table.
- Customizable “ALL” collection mode: collection process according to signal position relative to threshold (above or below).
- Needle rinsing enabled after the Equilibration and/or after a run.
- Split Mass edition panel in the method edition window.
- Parallelization and synchronization of the equilibration and Auto-Sampler initialization (purge & injection).
- Re-use of the same rinse tube.
- New columns combo box sorted by type, size and format.
- Comments box.

Live Run Tab

- Chromatogram full-screen mode in Live run.
- New fraction collection display (rack ID on top / tube ID below).
- Scrolling after zooming-in on the chromatogram.

Reprocess

- Possibility of having the cursor on the 2 charts (Chromato + Spectrum).
- PDF report preview.

Improvements

- AutoSampler purge cannot be executed due to level sensor alarms from other modules. It is now possible to run an AS Purge regardless of solvent levels of other modules, with or without level sensor activated.
- Level sensor alarm occurred even for non-used solvent ways: level sensor detection only considers the solvent ways in use by method.

➤ RFID:

- In the event of a complete inconsistency between the number, position and type (tube size and volume) of racks defined in a method and the number, position and type of racks physically installed on a system and tagged with “RFID”, the run will not be able to start.
- In the event of a partial inconsistency (at least one physical rack matches the racks set in the method), the run will be able to start using this(these) rack(s).
- If the dry load, loop and/or column tagged do not match, a notification is displayed when the methods starts, indicating that there is a mismatch between the method parameters and the items physically installed on the system, but this does not block the method startup.