ÄKTA pure 25

Instrument Configuration release notes and installation instructions

Introduction

This document describes the major implemented changes, improvements, and corrected issues in released versions of ÄKTA™ pure 25 instrument configuration.

This document also describes how to install the Instrument Configuration, see *Installation instructions, on page 6*.

Compatibility

For information about compatibility between different UNICORN™ versions and instrument configurations, see the UNICORN compatibility matrix at *http://www.cytiva.com/UNICORNcompatibility*.

Release 1.13

New functionality

- Support for micro injection valve **V9M-J**

Changed functionality

- Fraction size is changed to show decimal with three digits
- Default values are changed for system setting ***Max flow during valve turn***
  - Injection valve V9-Inj and V9M-J: 0.75 mL/min
  - Outlet valve V9-Os: 0.25 mL/min

Corrected defects

N/A

Information

When selecting ***Time*** as base, the unit is incorrectly displayed as mL even if the setting is min. This is only a visual defect.

This defect is shown in the following user interface views in UNICORN:

- ***System Control*** →***Manual*** →***Execute manual instructions*** → ***Fraction collector***
  - ***Fractionation***
  - ***Peak fractionation***
- ***Method Editor*** →***Text Instructions*** →***Instruction box*** →***Fraction collector***
  - ***Fractionation***
  - ***Peak fractionation***

Release 1.12

New functionality

- Added functionality to reset the auto zero of both ***UV*** detectors to factory default.
- Added instructions for triggers and support for triggers in ***Watch*** instruction.
- Added instructions for ***Set counter*** and ***Update counter***.
- Added support for counters in ***Watch*** instruction.
- Added functionality to calibrate the temperature sensor in the conductivity monitor.
- Added a new predefined method for running **Fibro HiTrap PrismA**.

> **IMPORTANT**
> If using outlet peak fractionation with the predefined method for Fibro units, the default number of fractions is 1. As a result, once a peak is collected, a warning appears stating that no further peaks will be collected. This is the intended way of working for the Fibro methods and the warning will not affect the outcome of the run.

Changed functionality

- Updated air sensors with improved software for more sensitive air detection.
- Updated ***Watch*** and ***Hold until*** of pH with support for ***Slope greater*** than and ***Slope less than***.
- Updated the ***Sample application*** phase with the possibility to change the volume used for ***Finalize sample injection*** and made it optional to include ***Finalize sample injection*** in the method. Also improved the default values for ***Finalize sample injection***.

Corrected defects

- Fixed an issue where under certain circumstances the fraction collector ***(F9-C)*** used the same tube twice.
- Improved help texts for several instructions.

Release 1.11

Not externally released.

Release 1.10

New functionality

The ***Elution*** phase has been updated with the support for automated multistep purification. A new option ***peak to loop*** in the ***Fractionate*** section is added which enables the collection of a peak in a loop, for storage between purification steps.

WARNING

Do not use a ***Superloop***. The loop wash included in the method can cause overpressure and damage the ***Superloop***.

Release 1.9

New functionality

- Support for UV lamp switch on/off when defining a method.
- Support for a second 5-column valve ***V9-C2/V9H-C2***.
- The number of columns is extended to 10.

Note: *A combination of single-column valve* ***V9-Cs/V9H-Cs*** *and* ***V9-C2/V9H-C2*** *is not supported.*

Release 1.8

New functionality

A warning is issued when the instrument is switched-off. As a result, in the audit trail it is now possible to differentiate between a switch-off and a connection-lost event.

Changed functionality

- The printed report is not selected by default for system performance tests.

- For the ***System performance test*** →***System test with UV U9-M***, the allowed intervals for the UV Response test has been adjusted to align with ÄKTA avant.

Corrected defects

- The UV monitor U9-M firmware is updated with a smoother run profile for the motor. The new firmware is backward compatible and can be used for all older versions of UV monitor U9-M hardware.
- An issue with a method waiting to collect the delay volume between phases has been corrected to ensure the progression of the method. To correct this issue, the following settings are introduced in the sample application phase:
  - A system flow rate is set at the end of the phase when performing direct sample injection and fractionation.
  - A system flow rate is set at the fractionation start to enable the collection of the delay volume from the previous phase.

Release 1.7

New functionality

The UV monitor **U9-M** firmware is updated to be compatible with the updated hardware. The new firmware is backward compatible and can be used for all older versions of UV monitor **U9-M** hardware.

Release 1.6

New functionality

Added support for cassette for 5 ml fractionation tubes in Fraction collector ***F9-C***.

Changed functionality

The Fraction collector wash instruction is changed so that the first part of the wash is led to Fraction collector waste before washing the accumulator.

Corrected defects

- Improvements made regarding ending run after fractionation with Fraction collector ***F9-R***.
- An issue with scaling of temperature values from the I/O-box is corrected.
- An issue in the Loop wash instruction is corrected.

Compatibility

This release is compatible with UNICORN version 6.3.2 and higher on operating system Windows 7 Professional, 32-bit or 64-bit, with Service Pack 1.

Release 1.5

New functionality

No new functionality is added in this release.

Corrected defects

- Delta column pressure (***DeltaC pressure***) is enabled in all predefined methods by default. This option is active only when column valve **V9-C** is installed on the system.
- When column valve **V9-C** is not installed and the pre-column pressure (***PreC pressure***) limit for the selected column is > 1 MPa, the value of delta column pressure limit is used as pre-column pressure limit in the method.

Note: *The correction is implemented only when the user creates new methods. Previously created methods are not automatically modified. The users must themselves update the existing methods with the new pressure settings.*

Release 1.4

New functionality

No new functionality is added in this release.

Corrected defects

- A filter is implemented in the software to avoid false pressure spikes.
- The software in the conductivity monitor(***C9***) is updated to support different versions of integrated electronics.
- It is now possible to use delta column pressure for column pressure control. The following features are added:
  - The ***Pressure limit delta-column*** option is available in ***Method Settings*** phase in the ***Method Editor*** module.
  - The column pressure control automatically uses delta column pressure for pressure regulation, if the actual column pressure approaches the pre-column pressure limit.
- A tooltip explaining pressure limits is added to the ***Method Settings*** phase in the ***Method Editor*** module.
- Help texts for the ***Method Settings*** phase were updated.

Compatibility

This release is compatible with UNICORN version 6.3.2 and higher.

Release 1.3

Not externally released.

Release 1.2

New functionality

No new functionality is added in this release.

Corrected defects

Process Picture function has been made compatible with .NET 4.5 Framework.

Release 1.1

New functionality

- Added support for Sample pump (**P9-S**).
- Added support for Sample inlet (**V9-IS**).
- Added support for Fraction collector (**F9-C**).
- Added support for Versatile valves 3 and 4 (**V9-V**).
- Added support for 1 mm flow path tubing when using virtual pressure.
- Improved graphics in ***Process Picture*** pane.
- Added a tooltip explaining ***Up flow*** in ***Elution*** phase of ***Method Editor*** module.

Installation instructions

Check before installation

Check which instrument configuration versions are installed in UNICORN:

1. Open the ***Administration*** module, then click the ***System Properties*** button to open the ***System Properties*** dialog box.
2. Click ***Instrument Configurations*** to view all current versions.

If the instrument configuration version is older than version 1.12, the instrument configuration must be updated (see the *Installation instructions* below).

If version 1.12 is already installed, make sure that it is also selected in the list in ***System Properties***.

Restart UNICORN after the new instrument configuration has been selected.

Installation instruction

UNICORN 6.3.2 or higher is required to install instrument configuration version. Contact the local Cytiva representative for UNICORN software update.

Tip: *Make a note of the* ***Component selection*** *for each component in the list before changing the instrument configuration.*

Follow the instructions to install the instrument configuration.

Step	Action
1	Open UNICORN.
2	From ***Administration,*** click ***System Properties*** , and then select your system from the ***System Properties*** dialog box.
3	Click ***Edit***.
4	Click ***Import***.
5	Locate the file on your computer and click ***Open***.
6	When the import is completed, select the new instrument configuration in the list.
7	Verify that all components have the correct check marks in the ***Component selection*** list and click ***OK***. *Result:* The instrument is restarted.
8	Restart UNICORN. The new instrument configuration is now in use.
9	Open the ***System Control*** module, click ***Connect to Systems*** and select your system.

More information

See *Administration and Technical Manual* (28997241) for more information about instrument configurations.

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For local office contact information, visit cytiva.com/contact

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