

CHROMATEC ANALYTIC SOFTWARE BUILD 4.0

USER MANUAL

214.00045-51I

GETTING STARTED

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TABLE OF CONTENTS

1 Introduction 4
2 Preparation to work 5
2.1 Start page 5
2.2 Creating accounts 5
2.3 Installation of a local instrument server 5
2.4 Creating connection 6
2.5 Obtaining licenses 6
3 Creating a method 7
3.1 Method with calibration 7
3.2 Method with internal standard 7
3.3 Method with normalization 7
3.4 Configuring the report 7
3.5 Additional settings and working methods when creating a method 8
4 Performing analyses 9
4.1 General analysis 9
4.2 Analysis with an internal standard 9
4.3 What to do if errors occur 9

1 INTRODUCTION

Chromatec Analityc 4.0 is a software designed to control analytical equipment manufactured by SDO Chromatec, to collect and process chromatographic information.

A distinctive feature of this software is cross-platform. The software can run under operating systems (OS) – Windows and Linux.

The software is implemented as a web application, that is, the operator interacts with the program using a web browser.

The requirements for the computer, operating systems, third-party software and the installation procedure are described in the Installation Instructions.

- Preparation to work.
- Method creation.
- Performing analyses.
- Checkout.

2 PREPARATION TO WORK

The procedure for the first start of the software:

1. Set up the start page.
2. Create accounts.
3. Install a local instrument server.
4. Create connection.
5. Import old chromatograms from Analytic 3.x, if you have them.
6. Obtain licenses if necessary.

2.1 Start page

At the beginning of the work, it is convenient to set the start page for the browser.

- Launch the web browser.
- In the address bar, enter the address of the Chromatec Analytic server. You have to figure it out during the software installation process.

If the client and server are located on the same computer, then the server address is: http://localhost or http://127.0.0.1

{video browser_set_start_page Browser start page}

Read more…

2.2 Creating accounts

For the first login, use the built-in administrator account: **admin** login, **admin** password

{video account_create Creating accounts, accounts}

Read more…

2.3 Installation of a local instrument server

Local instrument server - a program that provides direct control of the instruments. It is installed on a local computer (your workplace) outside the container, in which all other parts for the "Chromatec Analytic" work. This location allows the local server to survey the entire network and ensure the search for devices. In addition, the local server ensures the reliability of the recording of the tests, since it continues to work if for any reason the connection with the main server is lost.

The local instrument server is loaded from the main server. The Internet is not required, because the main server is usually located inside your enterprise (it can be located on the same computer).

The instrument device server is installed in cases:

- The "Chromatec Analytic" is installed on the current local (autonomous) computer with Linux OS.
- The "Chromatec Analytic" is installed on a separate server with Linux OS, and Linux was also installed on the current local computer.
- The "Chromatec Analytic" is installed on a separate server with Linux OS, and Windows is installed on the current local computer.

The local instrument server is not required if the "Chromatec Analytic" is installed on the current local (autonomous) computer with Windows OS.

To install a local server, you must download the necessary files specific for Windows and Linux from the main server, and perform actions shown in the video below:

Installation of a local device server on Linux

{video local_panel_linux local devices server, installation of a local server}

Installation of a local device server on Windows

{video local_panel_windows Local server on Windows}

2.4 Creating connection

{video panel_create_connection Connection, create connection}

Read more…

2.5 Obtaining licenses

The Chromatec Analytic software is distributed freely for most tasks, but in the following cases requires a license:

- Using the application calculations.
- Using the Chromatec Energetic application.
- Using a liquid chromatograph "Chromatec-Crystal HPLC 2014".
- Using a mass spectrometric detector.

Read more…

3 CREATING A METHOD

A method is a set of settings that describes the conditions for analysis, features of processing results and generating reports.

The method consists of three parts:

- Instrument method. Describes the state of the parameters of the internal chromatograph devices, as well as some external ones, such as a mass spectrometric detector. The parameters can have a constant value during the analysis or change according to a certain program.
- Injection method. Describes the state of the parameters of the sample input devices.
- Processing method. Describes the state of the parameters for processing measurement results.

Creating a method generally involves configuring all these entities.

When creating the method, we will need to perform at least one analysis of the sample in order to correctly set the retention times of the components. If the method involves calibration, then there will be several such analyses.

The sequence of analyses is **always** configured, regardless of whether you are going to conduct several analyses, or one. In the latter case, it will be a sequence of one analysis.

3.1 Method with calibration

{video method_calibration Calibration}

3.2 Method with internal standard

{video method_istd ISTD}

3.3 Method with normalization

{video method_normalization Normalization}

3.4 Configuring the report

{video method_report_settings Report settings}

{video method_report_header_layout Report header layout}

{video method_report_display_chromatograms Report display chromatograms}

{video method_report_repeatability Repeatability}

{video method_report_uncertainty Uncertainty}

3.5 Additional settings and working methods when creating a method

{video method_integration_events Integration events}

{video method_table_show_hidden Table settings, show hidden columns}

{video method_peak_component_binding Peak to component binding}

{video method_filtration Filtration}

4 PERFORMING ANALYSES

 Set up the sequence of analyses in the Scheduler.

 Run the sequence for execution.

If the sample is injected manually:

- Enter the sample and press the "START" button on the chromatograph
- If **preprun** is used, wait for the chromatograph to enter the "Waiting" stage. The device will perform a prestart.
- Wait for the chromatograph to reach the "Ready" stage.
- inject the sample and press the "START" button on the chromatograph.

If the sample is injected by an automatic sampler, the operator is only required to wait for the end of the tests and begin processing.

4.1 General analysis

{video analysis_general Analysus}

4.2 Analysis with an internal standard

{video analysis_istd ISTD}

4.3 What to do if errors occur

{video analytic_errors_support Errors, support}