



**1<sup>st</sup> Presentation Block:**  
**General**



# Company Overview

# What We Do

- **ECOM** is a global supplier of scientific and laboratory instruments for liquid chromatography.
- The company was **established in October 1991** and it is focused on research, development, and manufacturing of scientific and laboratory equipment for liquid chromatography. Our innovative R&D and dynamic processes allow us to quickly react on customer's needs and to propose customised products and solutions.
- ECOM is focused on **high quality products** and responsive service supports high performance of its customers.

# Core Values of Our Company



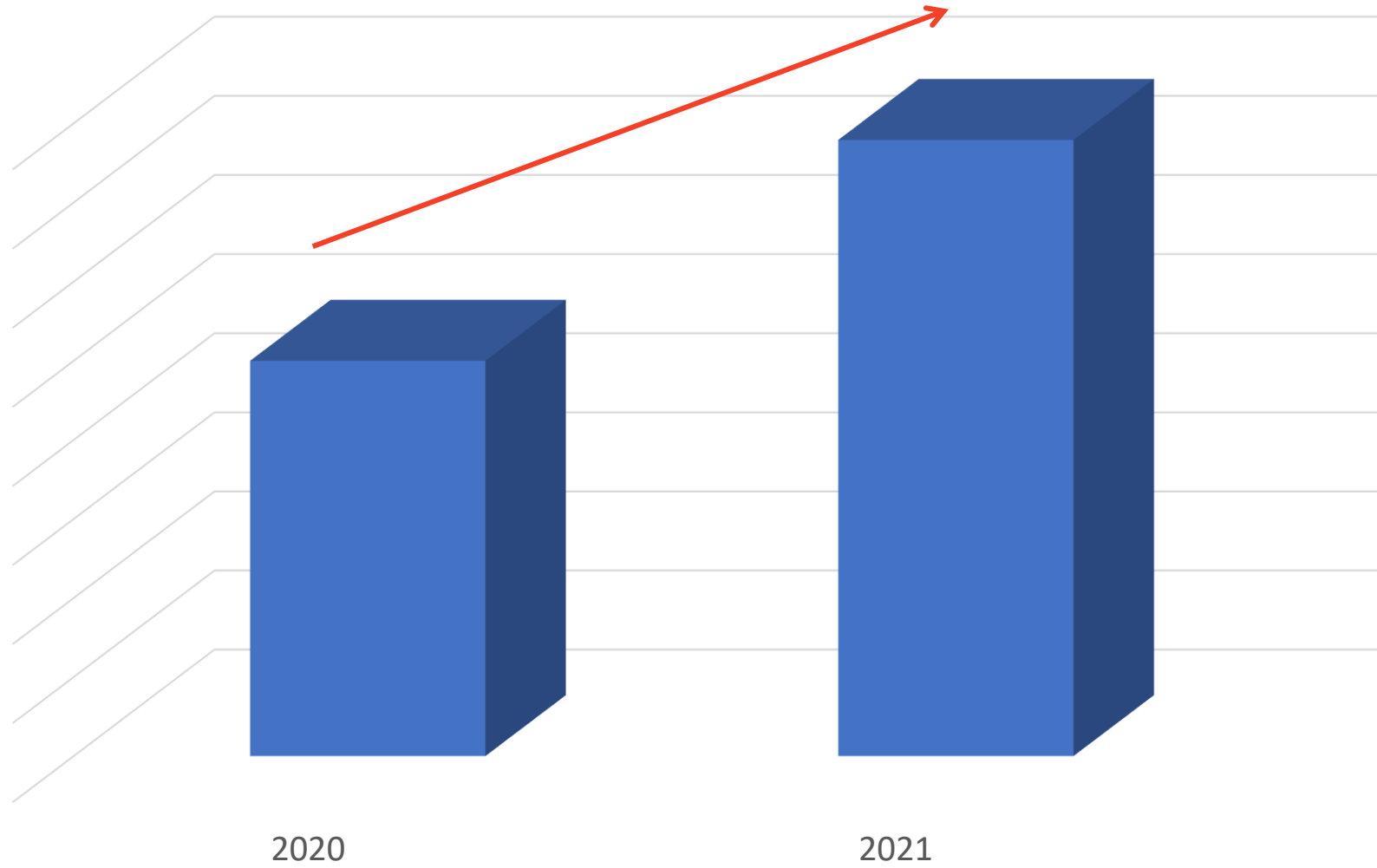
# Distribution of Our Products



We export our products to Europe, America and Asia. Our OEM devices are largely placed in the final standalone devices in well-known companies dealing with chromatography in countries such as **France, Switzerland, Germany, USA** and **Japan**.

# Sales Report

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# Research and Development

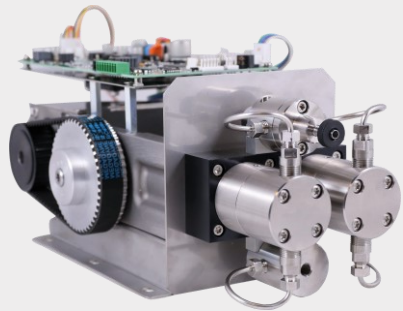
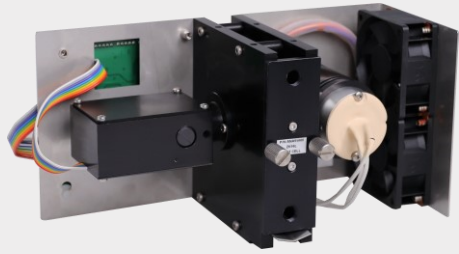
- Our **own research and development department ensures long-term testing of our devices** and fine-tuning them to the top functionality.
- Our company also **cooperates with research institutes and universities**, which also contribute to the development of our products.
- ECOM also designs and manufactures **control boards** for our devices.







# General Overview of ECOM Product Line



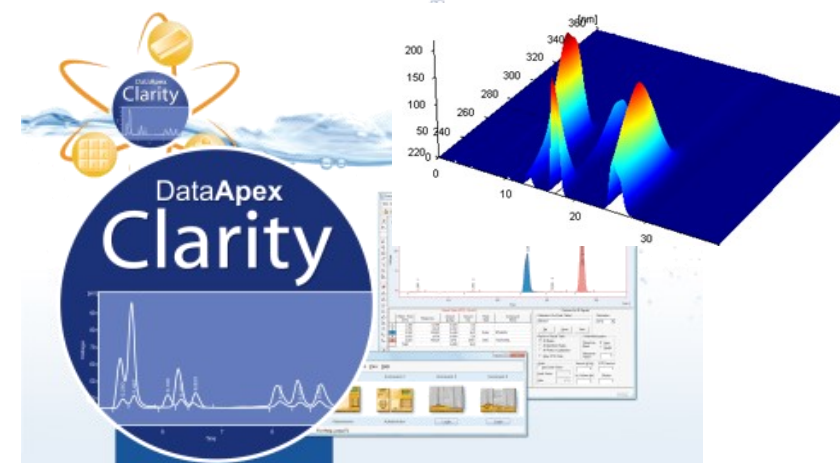
- Our leading products are UV-VIS (VIS) detectors, preparative and analytical pumps (gradient and isocratic) and systems, special systems, fraction collectors, customized cells and other units or HPLC accessories.



# Software

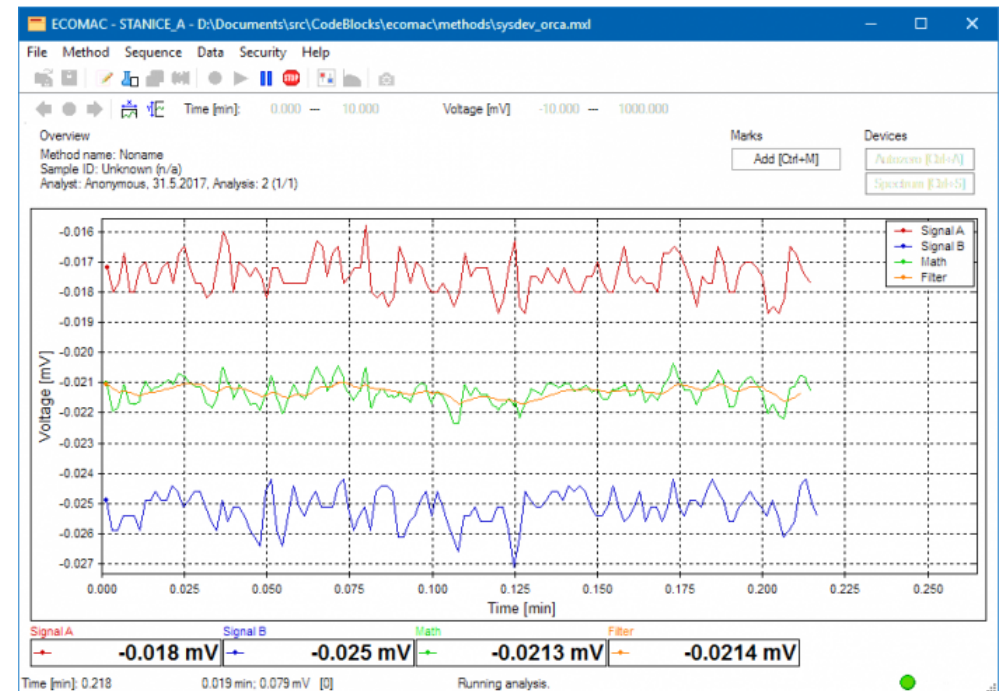
# Clarity

- Clarity is an advanced chromatography station designed to acquire and evaluate data from any commercially available chromatograph with standard analog output and from selected chromatographs with digital output.
- Drivers for our units are created by developers directly in our company under the auspices of the company DataApex, with which we work very closely.



# ECOMAC

- Software created by our developers for controlling and data acquisition from chromatographic devices via RS232 line, USB or Ethernet (LAN).
- It is possible to download and try a limited (DEMO) version of the ECOMAC software. This version is limited to the functionality of individual software operations and can be used with only one device at the time.



# Flash06Srv

- Service software created by our developers specifically for performing service tasks on our devices.
- The software is easy to use and user friendly, the user always has help with the procedure available when performing service operations.
- Flash06Srv is completely free and can be downloaded on our website [www.ecomsro.com](http://www.ecomsro.com)

# Communication

- Our devices are able to communicate mostly via Ethernet (LAN), RS232 and USB. We recommend to use Ethernet for static IP addresses, RS232 is limited in data transfer rate. USB is less suitable because of possible signal interference, insufficient cable length, etc., but is still possible to use.
- We provide complete communication protocols and are open to implementation in other devices (Industrial PLC systems).



# Qualifications and Certifications



# CSA & CE Certifications

- most of our products have CSA\* and CE\*\* certifications.



- \*CSA = The CSA registered mark shows that a product has been independently tested and certified to meet recognized standards for safety or performance.
- \*\*CE = the manufacturer or importer affirms the good's conformity with European health, safety, and environmental protection standards.

# ISO Certification

- ISO certification is a seal of approval from a third party body that a company runs to one of the international standards developed and published by the International Organization for Standardization (ISO).

**EURO CERT group**  
The Certification Body for Management Systems Certification No. 3115, accredited  
by the Czech Accreditation Institute according to ISO/IEC 17021-1:2015

issues

## CERTIFICATE

Hereby certifies that

**ECOM spol. s r.o.**  
Třebonická 239  
252 19 Chrášťany  
Id.Nr.: 41192192

in the scope of certification

**development, production, sale and service of equipment  
for liquid chromatography**

has established and applies a Quality Management System  
to be in accordance with the requirements of the standard

**ISO 9001:2015**

Registration number:	6828 / 2019
Date of Expiry:	23. 11. 2021
Current certification cycle from:	20. 11. 2018
Date of first Issue:	13. 12. 2006

Roztoky, 11. 11. 2019


  
Ing. Dagmar Pastyříková  
Head of Certification Body


EURO CERT CZ, a.s., Lidická 2370, 252 63 Roztoky, Id.Nr.: 26699117, VAT: CZ26699117  
phone: +420 234 222 111, e-mail: info@eurocert.cz, web: www.eurocert.cz

# Installation Qualification (IQ) Operational Qualification (OQ)

- IQ and OQ are sent to distributors who, as trained and qualified persons, perform instrument validation to end customers. Protocols are sent to distributors upon request.

ECOM spol. s r.o.  
Treboňská 238, 262 19 Chrástany, Czech Republic  
Tel: +420 221 511 310  
E-mail: info@ecompro.cz; www.ecompro.com



## Operational Qualification and Performance Qualification of ECDA2000 Detector

Date of issue:	Author:	No. of pages:	5
Protocol No.:			
Company:			

Protocol No. must be unique and it is pointed out in the footer on each page of protocol.

### 1. Objective, usage, list of versions and related documents

This protocol is intended for operational and performance qualification testing on device.  
Applicable for: ECDA2800.

This process may be performed by trained staff of the ECOM company and persons trained and certified by the ECOM company or by certified dealer of the ECOM company.

Version of protocol:

Issued	Version	Author	Approved by
14.02.2018	en-00	Kateřina Kněžourková	Jaroslav Formánek
09.11.2021	en-01	Kateřina Kněžourková	Jakub Hořák

Related documents:

Document	Document
Manual-ECDA2800-en	
OQ-Linearity	

### 2. Device identification

Basic identification of device:

Parameter	Value + notes
Type:	
Producer:	ECOM spol. s r.o.
Product No.:	
Serial No.:	
Local ID:	
Flow-cell:	

Local ID field is used for customer internal identification of device, device location, etc.

### 3. Used instruments and utilities

Basic used instruments and utilities are listed in chapter 12:

- Chromatographic/service software
- Pump (analytical flow-cells only)
- Manometer (analytical flow-cells only and pressure from pump can be used)
- Set of solutions (analytical applications only)

Additional used instruments and utilities:

- Set for filling flow-cell
- Test cell
- Dist. (HPLC) water, ethanol p.a.
- PC connection cable



Thank you for your attention!

If you have any questions, please do not hesitate to ask us or  
contact us!