

CAMAG

AUTOMATIC DEVELOPING CHAMBER 2



The CAMAG Automatic Developing Chamber 2 (ADC 2) offers convenience, safety and reproducibility for isocratic developments of TLC/HPTLC plates and foils with the format 20 x 10 cm. The CAMAG ADC 2 is the heart of an HPTLC system. It performs the development step fully automatically, reproducibly, and independent of environmental effects. The activity and pre-conditioning of the layer, chamber saturation, developing distance and final drying can be pre-set and automatically monitored by the ADC 2. Two operation modes are available: stand-alone with input of parameters via keypad, or software-controlled operation with visionCATS allowing for process monitoring, documentation of operating parameters, and reporting.

Key features

- Fully automatic development of 20 x 10 cm TLC/HPTLC plates
- Use of conventional 20 x 10 cm Twin Trough Chamber for development
- Operation in stand-alone mode or software-controlled
- No process monitoring responsibilities of the user, operation is fully traceable
- The option "Humidity Control" allows reproducible chromatography at defined layer activity

WORLD LEADER IN
PLANAR CHROMATOGRAPHY

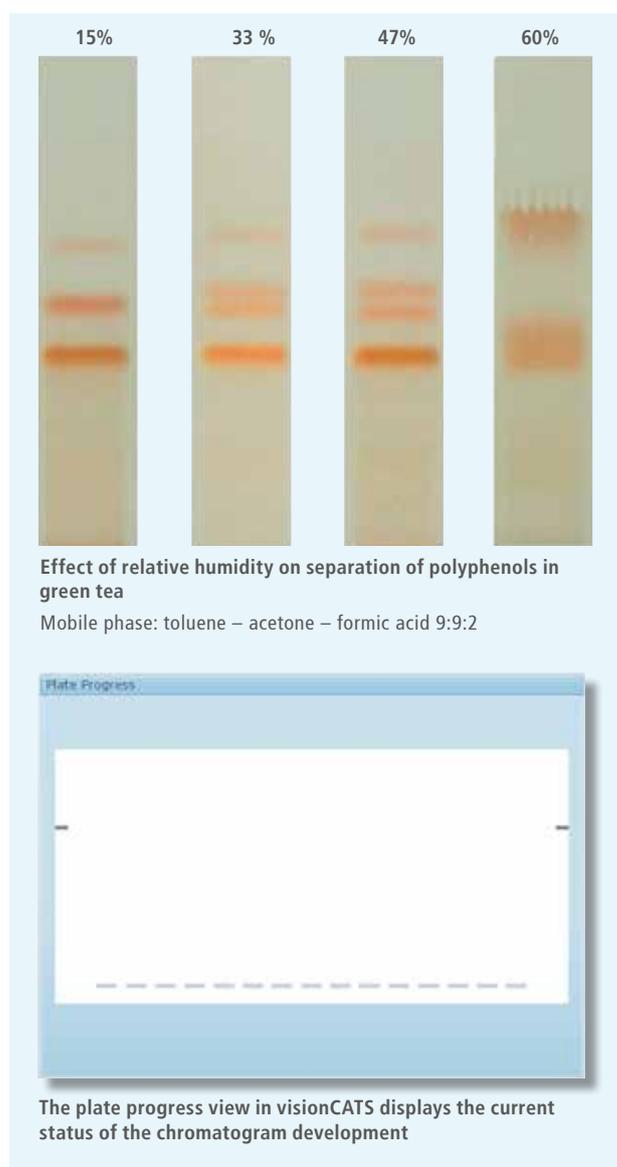
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CHROMATOGRAM DEVELOPMENT WITH STANDARDIZED CONDITIONS

Thin-Layer Chromatography is an open system and therefore easily influenced by environmental effects and operator skills. This is particularly true if the activity of the layer, chamber saturation, or pre-conditioning of the layer is important for the specific separation. Reproducible results can only be achieved, if all such influencing factors are kept constant. In routine analysis these parameters should be standardized.

The Automatic Developing Chamber is universally applicable and gives results of unsurpassed reproducibility. The ADC 2 is designed to automate all manual operations necessary during chromatogram development:

1. Prior to chromatography the activity of the layer can be adjusted to a selected level with the option "Humidity Control".
2. Chamber saturation is established at the same time (time controlled).
3. If required, the plate can then be lowered into the chamber without making contact with the developing solvent, effecting a time controlled pre-conditioning of the layer with the vapor phase of the developing solvent.
4. Finally chromatography is started by lowering the plate into the solvent.
5. During chromatography the position of the solvent front is monitored.
6. As soon as the solvent front has reached a pre-defined position (migration distance), the plate is removed from the solvent and dried under flow-optimized conditions.
7. When software-controlled with visionCATS all chromatographic parameters are recorded in compliance with cGMP/cGLP as part of the analysis and can be printed at any time.



Ordering Information

- 022.8350 **CAMAG® Automatic Developing Chamber 2 (ADC 2)**
for fully automatic development of TLC/HPTLC plates of 20 x 10 and 10 x 10cm, including CAMAG® Twin Trough Chamber for ADC 2 for 20 x 10 cm plates (022.5261), 100 - 240 V
- 022.8360 **Option Humidity Control for CAMAG® ADC 2**
provides for control of layer activity by controlling the relative humidity in the developing chamber. This is done by means of salt solutions (salt solution not included). This optional module can be easily installed and connected by the user.
- 028.0000 **CAMAG® HPTLC Software visionCATS: Basic Version**
Including access and control of all instruments - one server, one client; Instrument Diagnostics (xQ); analytical reports and access to HPTLC Method Library. Basic Version is not included in any Ultimate Package and needs to be purchased separately.

Before installing visionCATS, please visit www.camag.com/visionCATS for recommended system requirements and further information.

CAMAG (Switzerland)
Sonnenmattstrasse 11
4132 Muttenz
+41 61 467 34 34
info@camag.com

CAMAG (Germany)
Bismarckstrasse 27-29
12169 Berlin
+49 30 516 555 0
infoberlin@camag.com

CAMAG Scientific (USA)
515 Cornelius Harnett Drive
Wilmington, NC 28401
(800) 334 3909
tlc@camag.com

