

SOP 223/03	Installation Environment Specification	
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History: Created by: JM Date: 20. August 2008 Replaces: SOP 223/02 Date: 22. February 2008 Reviewed by: AG Date: 20. August 2008 Approved by QC: JB Date: 20. August 2008		

Purpose of this document: To ensure that all key aspects of the installation adhere to the manufacturer's recommendations, codes, safety parameters and design parameters.

Responsibility: Customer or CAMAG Approved Product Specialist or Service Engineer.

1 Introduction

This document describes the laboratory environment necessary for the Automatic Developing Chamber 2 (ADC 2), which has to be available at installation to ensure reliable operation of the instrument.

2 Installation environment and location

The place for installation should meet the following requirements:

Bench space	Width 330 mm (add space for access approx. 50 mm)
	Depth 330 mm (add space for ventilation approx. 100 mm) (or 150 mm for option humidity control)
	Height 520 mm (add space for ventilation approx. 200mm)
	Weight approx. 20 kg



Add adequate space for a PC next to the instrument.

Operating temperature	The temperature should be within a range of 15 to 35 °C and free from significant variations during measurement.
Humidity	Humidity and temperature conditions must not cause condensation.
Atmospheric conditions	Adequate ventilation free from acidic, alkaline or other gas that may corrode metal or painted surfaces must be secured.

Further requirements:

- Do not place the instrument in a location where the temperature undergoes significant changes (e.g. under an air conditioning duct or by a window). Significant changes in temperature will affect the performance of the unit.

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- Do not place the instrument in direct sunlight. Direct sunlight may create significant temperature changes, which will affect the performance of the system. Direct sunlight will disturb the CCD measurement and produce malfunctioning / interruption of the plate development!
- Do not expose the instrument to any strong vibration or shock.
- Avoid placing the instrument near equipment that radiates heat. Do not place the instrument near gas burners, electric heaters or ovens.
- Do not place the instrument near equipment that generates intense magnetic fields such as electric welding equipment, high frequency furnaces, pole transformers, etc.
- Protect the instrument from excessive dust.
- Connect the instrument to power lines that are free from sudden changes or voltage fluctuations.
- If you must use power motor driven equipment (such as a stirrer or vibrator) in the same line as your instrument, ensure that a noise reduction unit is in the same power line

2.1 Conditions for the installation

Confirm that the following requirements exist before installing the instrument:

Power supply and ground terminal

Line voltage:	100-250 V AC
Frequency:	50 / 60 Hz
Power consumption:	20 W
Ground terminal:	A grounded outlet should be within 2 meters of the instrument.
PC interface:	Serial port RS 232 (see also winCATS Environmental Specifications)

Exhaust gas recipient

Drying air from chamber	Fume hood or similar, capable of receiving approx. 300 L/min (waste) air during drying process.
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History:

Version 3: *(22. February 2008)*

- SOP Header: "Reviewed by" added
- Chapter 2.1 Line voltage changed to 100~250V

Version 2: *(22. February 2008)*

- New formatting with Arial font
- RS232 Interface info added for use with PC,

Version 1: *(25. April 2005)*

- new for ADC2