

SOP 173/03	Installation Environment Specification		
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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 Linomat IV, which has to be available at installation to ensure reliable operation of the instrument.

2 Installation environment

The place for installation should meet the following requirements:

Bench space: Width 500 mm
Depth 400 mm
Height 380 mm
Weight 10.5 kg

Operating temperature: The temperature should be within a range of 15 to 35 degrees centigrade and free from significant variations.

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.

Other 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.
- 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 may discolor the instrument paint surfaces.

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- Do not use the instrument in an environment with moving ambient air (draft).
- 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

Line voltage: 115 or 230V AC (see rating plate on instrument).

* *The instrument is equipped with a switched power supply, working properly if AC line voltage is between 90 and 260V.*

Frequency: 50 or 60 Hz

Power capacity: 60 VA

Ground terminal: A grounded outlet should be within 2 meters of the instrument.

Gas supply

N ₂ or compressed air	Required pressure:	4-6 bar (60-90 psi)
	Gas consumption:	1.0 L/min (spray)
	Additional (Option):	4-5 L/min (Inert Gas Blanket)