



**LiLiCHRO**

# midLiLi LLC Column

## Site Requirements

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## Purpose of Procedure

Your site must meet this specification or set of requirements to assure a successful and timely installation of your LiLiChro instrumentation. This document is designed to prevent delays during installation, and the initial use of the system in your application. This document outlines the supplies, consumables, space, and utility requirements for a midiLiLi. It also recommends tools and consumables that may help you get started. Use this document along with the midiLiLi documentation and Consumable Catalogue.

## midiLiLi LLC Column by LiLiChro

midiLiLi does not require installation by a specialist. Installation can be carried out by anyone who has experience in liquid chromatography and has replaced an HPLC column. Regardless, the midiLiLi is a liquid-liquid chromatography column that must be connected between the liquid chromatograph injector and detector. The connection requires chromatography tubing with an outer diameter of 1/16" and an inner diameter of at least 0.01". In addition, 10/32 connectors (normal HPLC 1/16" connectors).

## Requirement on the HPLC side

1. Pump: Analytical pumps with 4-20 ml/min flow rate, maximum pressure 100 bar.
  - a. Minimum config: 1 pump
  - b. Optimal config: 2 pumps
2. Detector: on demand
3. Injector
  - a. Minimum config.: Reodyne 7725i manual injector with 0.5 and 2 ml loops
  - b. Optimal: injector piston pump 0.1 - 10ml/min
4. Fraction Collector: on demand
5. Software

## Requirement on the laboratory side

A few commonly used solvents (hexane, heptane, methanol, ethanol, acetonitrile), a few litres of each.

## Delivery

Includes all necessary tools for Chromatographic System installation.

Complete all steps in the Installation Checklist that apply to the instrument. Note that the Installation Checklist is a separate document.

## Customer Responsibilities

Specific Site Preparation information (dimensions, weights, solvent, environmental, and electrical specifications):

1. Customer should have available solvents.
2. The site is well-ventilated and free of corrosive materials and overhanging obstacles.
3. Site temperature is within the recommended range of 10-30°C (50-86°F)
4. The site's ambient temperature conditions must be stable, +/- 3°C (5°F) or less is required to meet specifications. For greater temperature control options should be used for instrument cell space and solvent tanks.
5. Site humidity is within the recommended range of <80%, non-condensing.
6. Facility desk space is adequate and can support the weight (including possible vibration) of the midiLiLi system and the sufficient solvent and solute tanks.
7. A 230VAC outlet is required with IEC 60309 connector supplying 10A (or 110V 20A for low-voltage countries), with pins P+N+E. Line frequency should be 50 or 60Hz, with line voltage of 230V +/- 10% or 115V +/- 10% or 100V +/- 10% depending on country model.

## Important Information

If you have problems in providing anything described as a Customer Responsibility, please contact your local LiLiChro office for assistance.

## Dimensions and Weight

Select the facility floor space before your system arrives. Pay special attention to the local height requirements. Avoid facility space with overhanging shelves. Pay special attention to the weight and vibration of the instrument you have ordered. Make sure that your floor space can support this weight (including vibration).

Module	Weight	Height	Depth	Width
<b>midLiLi</b>	32 kg	340 mm	530 mm	430 mm