

PL-SP 260VS Pre-Installation Site Preparation Check List

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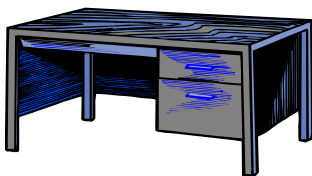


Thank you for choosing Polymer Laboratories' PL-SP 260VS.

1. Purpose:

In order to accommodate your new instrument in your laboratory it is very important that you first review carefully the following requirements for electrical service, exhaust fume ventilation and bench space. It is essential that these be in place in advance of the scheduled installation date. Your local area service representative will call to schedule installation and training date that is convenient to you. If you have any questions please call Instrument Service Department at +44 (0) 1694 724333.

2. Bench Space:



The standard instrument will require the following bench space: Width 505cm (20"), Depth 585cm (23"), Height 46cm (18").

Provide adequate space around the unit to allow for the motion of the horizontal shaker

The instrument is heavy, weighing 45Kgs (99 lbs.), and thus it is advisable to locate the system on a sturdy bench.

3. Extraction Requirements:



The unit must be sited in a fume cupboard or suitably extracted environment when used with hazardous and dangerous chemicals.

Situate the instrument in a well-ventilated area.

4. Power:



USA and Japan 115V (AC) $\pm 10\%$
50/60 Hz, 10A max. Single phase with protective earth.

Europe 230V (AC) $\pm 10\%$
50/60 Hz, 5A max. Single phase with protective earth



The mains supply should be fitted with an RCCB.
Ensure the power switch and appliance coupler remain accessible at all times.

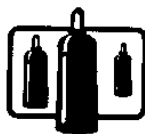
5. Environmental Conditions:



Temperature 10 to 30°C (49 to 81°F)
Non-condensing

Humidity 40-80%

6. Gas Supply



The hood of the unit is fitted with a 4mm push-fit gas pipe coupling. Nitrogen purge gas should be fed into the hood at approx 1SLM.

⇒ *For operation with other inert gases contact Polymer Laboratories for advice.*

6. Precautions:

Solvent Vapours

Do not use this equipment in hazardous atmospheres or with hazardous materials for which it was not designed.



Please exercise care when using solvents with the instrument: vapour sensor is not present in the PL-sp 260VVS

Drying Out Period

After positioning the instrument on the bench it should be run empty at 120°C for period of 1 hour to drive any residual moisture out of the heater elements. **The electrical safety of the instrument cannot be guaranteed until it has dried out.** See Sections 4.1, 4.3 & 4.4 for instructions on connecting power and setting the temperature.

Preventative Maintenance

Periodically inspect the power lead for signs of wear or damage. Contact Polymer Laboratories Service Department to obtain a replacement lead – it must be fitted with a ferrite to maintain EMC compatibility.

Temperature

The Sample Preparation System is designed to control the temperature of the sample preparation vials to temperatures up to 260°C and therefore the metal hot plates, vials and the base of the hand pipettor will be extremely hot during normal operation. Please handle these components carefully wearing suitable protective gloves. Heat sensitive warning labels are affixed to the hot sections of the instrument for your protection.



BEWARE HOT SURFACES !

Toxic and Flammable Vapours

To prevent the risk of accumulation of toxic and/or harmful vapours, the system **must** be used in a fume cupboard or suitably extracted area when operated at elevated temperatures and with organic solvents. Additional vapour removal can be achieved by

connecting the hood of the hot plate to an extraction system via standard 2”(50mm) flexible ducting.

Risk Reduction Procedures for Flammable Liquids



THE FOLLOWING PRECAUTIONS ARE EXTREMELY IMPORTANT!

- Keep any sources of ignition (e.g. sparks or naked flames) well away from hot solvents!
- Always wear a grounded anti-static wrist strap when manipulating flammable liquids.
- Ensure the temperature of solvents is always kept at least 10°C below their boiling point.
- Always use extraction or ventilation to minimise the concentration of flammable vapours.
- Remove solvent reservoir containers and cover all vials before shaking.
- The hood of the unit should be purged with Nitrogen during shaking.
- Reduce the exposed surface area of solvents to a minimum by replacing vial caps and container lids as quickly as possible.
- Replace the hood whenever possible.
- Do not overfill containers – allow plenty of room for solvent motion during shaking.
- Use the minimum necessary quantity of solvents.
- Mop up any spillages immediately.

Thank you for your attention to these matters. Please feel free to call the Instrument Service Department at +44 (0)1694 724333 with any questions you may have regarding the installation or operation of the Instrument. We look forward to serving all of your GPC and HPLC needs.