

SX20 Stopped-Flow Installation Information

This document provides a comprehensive description of the SX20 installation requirements. To assist with the installation of your new instrument please have these requirements ready for the visit of the installation engineer.

Laboratory Site Requirements

Work Surface

The SX20 is best installed in a clean, air conditioned laboratory environment and is normally set up as shown in the picture below (printer not shown). A sturdy, stable, vibration-free work surface is recommended for optimum performance.



The minimum space required for the SX20 is as follows:

SX20 standard system: 1.5m x 0.8m x 0.6m

SX20 system with AM.1 accessory: 1.8m x 0.8m x 0.6m

Layout Variation

To maximise bench space, some users opt to locate the lamp power supply unit on a shelf above the main system to reduce the space requirement of the SX20. This requires a set of extended cables that if requested can be supplied with the instrument. The shelf should be no higher than 0.5m above the height of the work bench.

Electrical Supply

The system is supplied with a filtered mains distribution board which requires an earthed mains electricity supply of 85-264V.

Compressed Gas Supply

The stopped-flow sample handling unit is pneumatically driven and requires a compressed gas (normally nitrogen) supply regulated to 8bar (125psi). The installation site must be equipped with either a laboratory supply or gas cylinder with regulator capable of fulfilling this requirement.

A 5m length of armoured hose (5mm internal diameter) is supplied with the instrument to allow connection to the supply. **Please ensure the cylinder is fitted with a suitable stem connector as shown in the picture opposite.**



Water Bath Connection for Temperature Control

The stopped-flow sample handling unit may be connected to a circulating water bath for temperature control of measurements. The SX20 is supplied with snap-fit connectors for rapid connection to water bath hoses of 8mm internal diameter.

Test Reaction Chemistry

Owing to stringent regulations relating to air travel and chemicals it is not always possible for the installation engineer to carry test chemistry to the installation. Please visit the Applied Photophysics website for details of recommended test reactions for absorbance, fluorescence and fluorescence polarisation modes of operation.

Filters

The SX20 is supplied with 2 glass cut-off filters for fluorescence applications. Please contact the Technical Support team to discuss filter requirements.

Xenon Arc Lamps

The SX20 is supplied with a 150W xenon arc lamp (ozone-free) mounted in the lamp housing. A mercury-xenon lamp and ozone-producing xenon lamp are also available for various applications and can be supplied at the time of instrument installation.

Additional User Manuals

The SX20 is supplied with one user manual. The software installation CD contains copies of the manual in PDF format.

For further details concerning any aspect of the installation, please contact the technical support department.