

Congratulations on your recent purchase of a CEM automated peptide synthesizer!

The ability to get your system installed quickly depends heavily upon your prompt response. Please carefully read the information outlined below, then complete this form and return it to Will Sweatman via email as soon as possible.

If you have any questions, please contact Will Sweatman directly at:
(704) 821-9366 ext. 1272 or by email, will.sweatman@cem.com

CEM is open Monday through Friday, from 8:30 AM until 5:00 PM (Eastern Time), excluding major holidays.

Overview

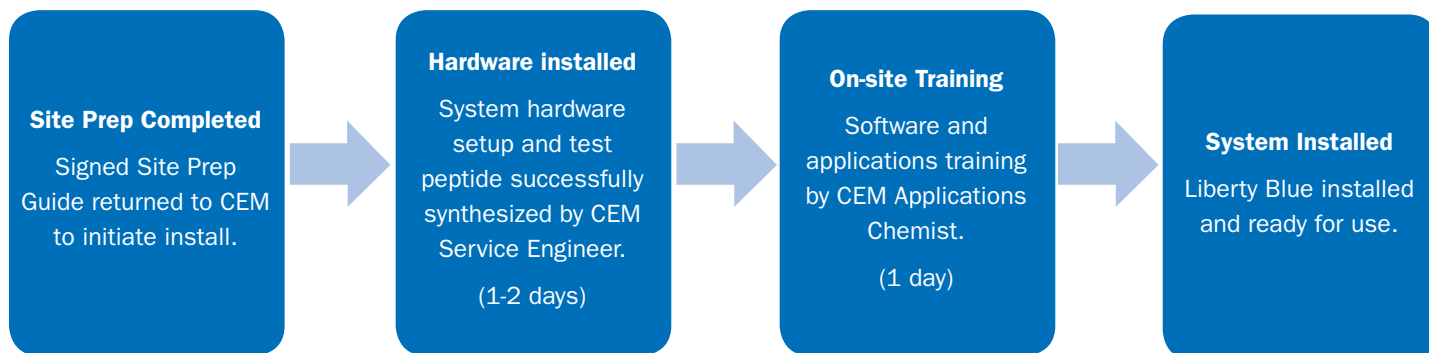
Here's an overview of what to expect leading up to the installation of the Liberty Blue™ System and details on how we can work together to keep things moving as quickly as possible.

First, we will need you to complete and return this form. This document serves to confirm a couple of things so that we can schedule your installation: (1) acknowledges that the site is ready or will be ready prior to the arrival of the CEM Service Engineer, (2) advises us of the work that will need to be performed during the installation, and (3) initiates communication with our lab staff.

Second, the Installation Coordinator will reach out to you to schedule the installation and training date. Our goal will be to install the system within 2 - 3 weeks from initial contact.

Lastly, your system will be installed. Typically, this process takes two - three days. On the first day or two the CEM Service Engineer will install the Liberty Blue system and ensure proper performance running a test peptide. The final day will be to provide training and applications support by the CEM Applications Chemist.

In short, our aim is to install your system within three weeks of shipment, but we can't do this without your help! Please sign and return this form as soon as possible.



Site Preparation

It is the responsibility of the purchaser to prepare a suitable site for the instrument prior to the arrival of a CEM Service Engineer.

Please initial next to each site requirement to acknowledge that the following site preparation information will be available prior to installation and training.

Location

Designated area with a sturdy workbench capable of handling at least 100 lbs (45 kg)

Bench space for the Liberty Blue module and microwave: 20 in (50.8 cm) W x 21 in (53.3 cm) D x 30 in (76.2 cm) H

Bench Space for Optional HT 12/24 Resin Transfer Module (must be directly beside Liberty Blue Module):

*HT12 Resin Loader: 11 in (27.9 cm) W x 18" (45.7 cm) D x 31 in (78.7 cm) H

*HT24 Resin Loader (in addition to HT12): 11 in (27.9 cm) W x 18" (45.7 cm) D x 31 in (78.7 cm) H

Space for CEM Supplied Controller (laptop): 15 in (38.1 cm) W x 10 in (25.4 cm) D x 16 in (40.6 cm)

Space for Waste Reservoir - Standard Waste Reservoir is a 6 L Container. An optional 20 L container is available.

Electrical Requirements

Two (2) Electrical Connections (110 - 140 VAC, 60 Hz, 10 Amp or 220 - 240 VAC, 50 Hz, 5 Amp)

- * Liberty Blue module Power Strip
- * Controller (Computer) Power Cord

Dedicated, grounded outlet no more than 8 feet (2.5 M) from unit

* Instrument is supplied with a region specific power cord

Environmental Constraints

A fume hood or adequate ventilation within 6 feet of unit that pulls a minimum of 30.5 CFM at point of connection

A temperature range of 41°F (5°C) to 104°F (40°C)

Relative humidity must not exceed 85%

Inert Gas Source

High purity grade nitrogen or argon

- * No less than 90% purity
- * Capable of supplying a minimum of 35 psi and maximum of 100 psi
- * Within 10 feet of right side of instrument installation site (facing front of instrument)
- * CEM provides a 1/8" - 1/4 NPT fitting. Please specify fitting size required if different from the one provided

Reagents and Solvents

The following reagents are required on-site so that the system test peptide can be completed during the installation. Larger quantities will be needed for continuous instrument operation. CEM provides the resin, Oxyma Pure, and Fmoc amino acids needed to run the test peptide.

NOTE

If an alternate activation scheme is being used, these activators and associated solvents must be available on-site, in lieu of DIC/Oxyma Pure.

Name	CAS #	Quality	Quantity
<u>Main Solvent (choose one)</u>			
DMF (Dimethylformamide)	68-12-2	≥99.8%	4 L
DMF (Dimethylformamide)	127-19-5	≥99.8%	4 L
NMP (N-Methylpyrrolidone)*	872-50-4	≥99.0%	4 L
<u>Deprotection (choose one)</u>			
Piperidine	110-89-4	>95%	100 mL
Piperazine**	110-85-0	>95%	50 g
<u>Activators (both required, initial)</u>			
DIC (N,N-Diisopropylcarbodiimide)	693-13-0	>95%	50 mL
Oxyma Pure (Ethyl(hydroxyimino)cianoacetate)	3849-21-6	>95%	50 grams
<u>Resin Cleavage Workup (all required, initial)</u>			
DCM (Dichloromethane)	75-09-2	>95%	100 mL
TFA (Trifluoroacetic acid)	76-05-1	>95%	50 mL
TIS (Triisopropylsilane)	6485-79-6	>95%	5 mL
DODt (2,2'-(Ethylenedioxy)diethanethiol)	14970-87-7	>95%	5 mL
Diethyl Ether	60-29-7	>95%	100 mL

*If NMP is used as the coupling solvent, the microwave coupling method needs to be extended to 5 minutes with the temperature limited to 75 °C (See Operation Manual Supplement for more information).

**If using piperazine, it is recommended that it be prepared as a 10% w/c solution in a 1:9 mixture of ethanol:NMP

*** HOBt, HOAt, or 6-Cl-HOBt can be used in place of Oxyma Pure if desired (See Operation Manual Supplement for more information).

Recommended Chemical Suppliers

Fmoc Amino Acids, Oxyma Pure & Resins: CEM Corporation

Solvent and Chemicals: Sigma Aldrich, Fisher Scientific, EMD Millipore, Bachem

WARNING

The reagent and solvent information provided above was current at the time of this publication. Always refer to the manufacturer's current SDS sheets and the appropriate laboratory safety information prior to any chemical use.



Signature

Thank you for taking time to review the Site Preparation Guide.
By signing below, you acknowledge that the installation site will be ready as outlined (page 2) and reagents will be provided (page 3) prior to the arrival of the CEM Representative.

Customer Details & Signature:

Name: _____

Title: _____

Company: _____

Installation Address:

Street: _____

City: _____ State: _____ Zip: _____

Email: _____

Phone: _____ Mobile: _____

Date: ____ / ____ / ____ Signature: _____

Please send completed form to:
Will Sweatman

Email: will.sweatman@cem.com

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