

L1 Production Solution Site Prep Accessories List

 v01.12
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INTRODUCTION

This list includes accessories that must be purchased by the customer from third parties, including contacts, part numbers, etc. This is not an exhaustive list and is subject to change

CUSTOMER PURCHASED EQUIPMENT

Item	Supplier	Contact	Part #
PCU 90 UV Cure Used to post process parts Note: Does not include Nitrogen, regulators or necessary fittings for Nitrogen hook up	Dreve	Dreve America Claudia Grönheit Claudia.Groenheit@dreve.de Julie Halvorson Julie.Halvorson@dreve-america.com	PCU – 90 (See manual for all fittings)
Resin Pump-Vacuum Used for resin dispensing & reclamation	Vac-U-Max	info@vac-u-max.net	Model: 55C3D PN: MNL74595
Chillers Required for printer functioning	PolyScience	Burt Linnetz Pacific Combustion burt@pacificcombustion.com +1-800-342-4442 Mobile: +1-310-995-0053 Fax: +1-310-212-5333	CA10A3T1-41APCN (60Hz, 208-230V) CA10A2T1-41APCN (50Hz, 200-240V)
Coolant Required for printer functioning	2 gallons (8 Liters) per 6160T21A133D plus ¼ gallon (1 Liter) per printer. Please see L1 documentation for details.		
Oxygen Concentrator Required for printer functioning	AirSep	Chart James Klein James.Klein@caireinc.com Angelo Barberic (for Europe, Russia/CIS & MEA) Direct: +1-716-691-0202 ext. 6266 Mobile: +1-716-909-9171 angelo.barberic@caireinc.com	AS013-124 (120V) AS013-125 (220V)
Nitrogen Required for UV cure	Bottles, dewars or concentrators with N2 concentration of 99.0% or higher can be used and require a regulator. For high volume solutions, Carbon recommends a concentrator, which requires additional air compressor requirements. The Parker NITROSource Generator is a recommended concentrator solution. Contact Matt Belluomini (mbelluomini@parker.com) for model/sizing info.		
Forklift or Pallet Jack For installing equipment and moving resin	2750 lbf minimum lifting capacity		

OPTIONAL EQUIPMENT

Item	Description
Tote Dispensing Equipment	See Site Prep For Totes (only applicable if receiving resin in totes)
Small Shop Vacuum Used for general clean up	Recommend local hardware supply store
Backup Power System	Carbon recommends having all work cell equipment supported by backup power to prevent production downtime. Please refer to electrical requirements for all equipment.

CUSTOMER PURCHASED IT EQUIPMENT

To control the printer, you need a Windows or Mac computer with a modern browser on the same network as the printer. Carbon will not supply a computer with the printer. You can use any computer with the specifications given in this section. Additionally, to automate your factory, we require a symmetric, high-bandwidth connection to the internet. Please see the network requirements sheet for more information.

Computer Type	Processor	Memory	Graphics Card	Example
PC	2.6 GHz Intel Core i7-7700HQ Processor (6M Cache, up to 3.8 GHz)	16GB of 2400MHz DDR4	NVIDIA GeForce GTX 1050 with 4GB GDDR5	Suggested example
Mac	2.3 GHz quad-core Intel Core i7 (Turbo Boost up to 3.7GHz) with 6MB shared L3 cache	16 GB of 1600 MHz DDR3L onboard memory	Intel Iris Plus Graphics (13" MacBook Pro) AMD Radeon R9 M370X with 2GB of GDDR5 memory and automatic graphics switching (16" MacBook Pro)	Suggested example