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1 Overview

Introduction

Your printer is supplied ready to use after a few simple installation procedures described in detail in the Assembly instructions. It is important to read the information provided in this guide thoroughly and to ensure complete compliance with all installation and operation requirements, safety procedures, warnings, cautions and local regulations. A well prepared site helps to provide a smooth and easy installation.

Documentation

The following manuals are provided with your printer, and can also be downloaded from http://www.hp.com/go/Latex300/manuals/.

- Introductory information
- Limited warranty
- Legal information
- Site preparation guide (this guide)
- Assembly instructions
- User’s guide

Customer responsibility

You are responsible for preparing the physical site for the installation of the printer.

- Prepare the building’s electrical system to meet the printer’s requirements and the Electrical Code requirements according to the local jurisdiction of the country where the equipment is installed. See Electrical configuration on page 6.

  \(\text{NOTE:}\) Make sure that a certified electrician reviews the setup and configuration of the electrical system used to power the printer. See Electrical configuration on page 6.

- Meet temperature and humidity requirements and ensure proper ventilation for the printer. See Environmental specifications on page 4.

- Meet all requirements for RIP, networking and printing supplies. See RIP workstation characteristics on page 5, Networking on page 5 and Printing supplies on page 6.

- Prepare the unloading route so the printer can be unloaded and maneuvered into place. See Unloading route on page 3.
Installation time schedule

Allow a minimum of three hours for the installation. The installer may require the help of three people to perform certain tasks during installation.
2 Site preparation requirements

Physical space requirements

Unloading route

The route between the unloading area of the printer and the installation site, including any corridors and doorways through which the printer must be transported, is important to proper site preparation and must be checked before the arrival of the printer. This pathway must be clear when the printer arrives.

<table>
<thead>
<tr>
<th>Table 2-1 Printer physical specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
</tr>
<tr>
<td>Depth</td>
</tr>
<tr>
<td>Height</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Width with packaging</td>
</tr>
<tr>
<td>Depth with packaging</td>
</tr>
<tr>
<td>Height with packaging</td>
</tr>
<tr>
<td>Weight with packaging</td>
</tr>
</tbody>
</table>

Doorways: minimum width 1.01 m (40 in) × minimum height 1.67 m (66 in) required.

The space required for assembly is 3 m (10 ft) in front and 1 m (3.5 ft) at the sides and rear.

Most of the installation process requires one person, but four people are required to perform certain tasks.
Environmental specifications

These environmental conditions must be kept within the specified ranges to ensure the correct operation of the printer. Failure to do so may cause print-quality problems or damage sensitive electronic components.

**Table 2-2 Printer environmental specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative humidity range for best print quality</td>
<td>40–60%, depending on substrate type</td>
</tr>
<tr>
<td>Relative humidity range for printing</td>
<td>20–80%, depending on substrate type</td>
</tr>
<tr>
<td>Temperature range for best print quality</td>
<td>20 to 25°C (68 to 77°F), depending on substrate type</td>
</tr>
<tr>
<td>Temperature range for printing</td>
<td>15 to 30°C (59 to 86°F)</td>
</tr>
<tr>
<td>Temperature range when not in operation</td>
<td>-25 to +55°C (-13 to +131°F)</td>
</tr>
<tr>
<td>Temperature gradient</td>
<td>no more than 10°C/h (18°F/h)</td>
</tr>
<tr>
<td>Maximum altitude when printing</td>
<td>3000 m (10000 ft)</td>
</tr>
</tbody>
</table>

**NOTE:** The printer must be kept indoors.

**NOTE:** If the printer or ink cartridges are moved from a cold location to a warm and humid location, water from the atmosphere can condensate on the printer parts and cartridges and can result in ink leaks and printer errors. In this case, HP recommends that you wait at least 3 hours before turning on the printer or installing the ink cartridges, to allow the condensate to evaporate.

In addition to controlling the temperature, humidity, and temperature gradient, there are other environmental conditions that must be met during site preparation.

- Do not install the printer where it will be exposed to direct sunlight or a strong light source.
- Do not install the printer in a dusty environment. Remove any accumulated dust before moving the printer into the area.

**Ventilation and air conditioning**

As with all equipment installations, to maintain ambient comfort levels, air conditioning or ventilation in the work area should take into account that the printer produces heat. Typically, the printer's power dissipation is 2.2 kW (7.5 kBTU/h). Air conditioning and ventilation should meet with local environmental, health and safety (EHS) guidelines and regulations. Consult your usual air conditioning or EHS specialist for advice on the appropriate measures for your location.

For a more prescriptive approach to adequate ventilation, you could refer to the ANSI/ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) 62.1-2007 Ventilation for Acceptable Indoor Air Quality. As an example, a minimum exhaust rate of 2.5 L/s.m² (0.5 cfm/ft²) of fresh make up air for "copy, printing rooms" is specified.

Special ventilation equipment (air filtration) is not required to meet U.S. OSHA requirements on occupational exposure to VOCs from water-based HP Latex Inks. Special ventilation equipment installation is at the discretion of the Customer. Customers should consult state and local requirements and regulations.

**NOTE:** The ventilation and air conditioning units should not blow air directly onto the printer.

**NOTE:** Maintaining positive air pressure in the print production room will help prevent dust from entering the room.
NOTE: HP suggests to provide 6 ACH (air changes per hour) of fresh air ventilation and a minimum room volume of 30 m³.

Designing the optimal print production area

Your printer requires enough space to perform the following tasks:

- Print
- Replace a substrate roll
- Service the printer or replace printer components
- Ensure the printer is well ventilated

Your printer has the following dimensions:

<table>
<thead>
<tr>
<th></th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>2307 mm (90.8 in)</td>
<td>840 mm (33.07 in)</td>
<td>1380 mm (54.3 in)</td>
</tr>
</tbody>
</table>

The space required is illustrated in the following diagram:

RIP workstation characteristics

Each RIP has specific requirements. Check with your RIP vendor to find out the requirements for the PC that you'll be using for the RIP station. See [http://www.hp.com/go/latexrips](http://www.hp.com/go/latexrips) for a complete list of certified RIP stations available for this printer. Make sure that the RIP station is fully functional and ready for installation.

This printer includes an easy RIP in the box.

Networking

You are responsible for all networking requirements, and you must complete the following tasks:

NOTE: In order to perform remote support, the printer must have access to the Internet using the LAN connection.
● Have a Gigabit Ethernet network ready for the day of installation.

● Provide a CAT-6 LAN cable to connect the printer to your LAN and RIP workstation.

● Provide a Gigabit Ethernet switch.

To get the full features for your printer, it should be connected to the Internet. Most unmanaged networks are directly connected to the Internet. However, some networks require a web proxy. A proxy is a server that acts as an intermediary between computers on your local network and servers on the internet. Before setting up the printer, please check if your network requires a web proxy.

To check this open Internet Explorer or Safari on any computer within your network, and browse to the http://hp.com site. If you cannot connect to hp.com, your network does not have internet access and you need to consult with your IT provider on how to configure internet access. If you can connect to hp.com, you can check the browser settings for proxy configuration as follows:

● For Internet Explorer, go to Tools > Internet Options > Connections > Local Area Network (LAN) Settings. In the "Proxy server" part of the window, if the "Use a proxy server" box is unchecked, you do not need a web proxy. If it is checked, make a note of the Address and Port settings in the main window, or in the HTTP part of the Advanced settings window.

● For Safari, go to Preferences > Advanced > Proxies > Change Settings. If the "Web Proxy (HTTP)" box is unchecked, you do not need a web proxy. If it is checked, make a note of the Web Proxy Server name (before the ":"), and port (after the ":").

● Proxy server names are typically like "proxy.mycompany.com" and proxy port is typically 80, but details are network dependent.

If you are unable to determine whether you need a web proxy or how to configure it, please consult with your network administrator or Internet Service Provider. When in doubt, you probably do not need a web proxy.

**Printing supplies**

The following supplies should be purchased in addition to the printer and should be available on the day of installation:

● Six HP 821 ink cartridges, one for each color: black, cyan, magenta, yellow, light cyan and light magenta, and one HP 821 optimizer cartridge.

● At least one roll of substrate to perform calibrations and printhead alignment during printer setup.

**Electrical configuration**

**NOTE:** If configuration of the building electrical system used to power the printer needs to be modified to meet printer requirements, an electrician is required. Make sure that your electrician is appropriately certified according to local regulations and supplied with all the information regarding the electrical configuration.

Your printer requires the following electrical components to be supplied and installed by the customer, according to the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.
Single phase power

**Table 2-4 Single phase line specifications**

<table>
<thead>
<tr>
<th></th>
<th>Printer</th>
<th>Curing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of power cords</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Input voltage</td>
<td>~200-240 V ±10% (two wires and protective earth)</td>
<td></td>
</tr>
<tr>
<td>Input frequency</td>
<td>50 / 60 Hz</td>
<td></td>
</tr>
<tr>
<td>Maximum load current (per power cord)</td>
<td>3 A</td>
<td>13 A</td>
</tr>
<tr>
<td>Power consumption per power cord in printing mode</td>
<td>200 W</td>
<td>2.0 kW</td>
</tr>
<tr>
<td>Power consumption in ready mode</td>
<td></td>
<td>70 W</td>
</tr>
</tbody>
</table>

Circuit breakers

**NOTE:** The circuit breakers must meet the requirements of the printer and shall be in accordance with the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.

The printer requires two Power Cords that meet the following requirements.

**Table 2-5 Dedicated lines per SKU**

<table>
<thead>
<tr>
<th></th>
<th>Printer</th>
<th>Curing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dedicated line</td>
<td>Not required. Do not overload lines.</td>
<td>Not required. Do not overload lines.</td>
</tr>
<tr>
<td></td>
<td>Refer to Table 2-4</td>
<td>Refer to Table 2-4</td>
</tr>
<tr>
<td>Branch circuit breaker</td>
<td>2 poles, 16 A/20 A according to Local Laws and printer maximum load current</td>
<td></td>
</tr>
<tr>
<td>Residual current circuit breaker</td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 poles, 30 mA residual, at least 20 A capacity</td>
<td></td>
</tr>
</tbody>
</table>

1 Also known as Ground Fault Circuit Interrupter (GFCI)
NOTE: The Power Distribution Unit (PDU) must be rated to meet the power requirements of the printer, and shall be in accordance with the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.

WARNING! Do not use a power strip (relocatable power tap) to connect both power cords.

Wall receptacles and power cords

Two power cords are provided with your printer, according to the printer’s electrical specifications. If those cords do not reach your PDU and/or UPS, a certified electrician must install suitable extension cables on the day of installation.

To make sure you have the right wall socket outlets (wall receptacles) ready for installation, check the following:

1. The wall socket outlets must be suitable for printer input ratings. See Single phase power on page 7.

2. The wall socket outlets must be suitable for the power cord plug type used in the country of installation. The Table 2–6 Power cord specifications on page 8 list examples of the power cords and the plugs provided with the printer according to the country. To make sure you have the right wall receptacle, find your country in the appropriate table and check the plug type.

WARNING! Use only use the power cord supplied by HP with the printer. Do not use a power strip (relocatable power tap) to connect both power cords. Do not damage, cut or repair the power cord. With a damaged power cord, there is risk of fire and electric shock. Always replace a damaged power cord with an HP-approved power cord.

<table>
<thead>
<tr>
<th>HP Part Number *</th>
<th>Length</th>
<th>Plug type</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>8120-6360</td>
<td>2.5 m</td>
<td>NEMA 6-20P, 240 V, 20 A, non-locking</td>
<td></td>
</tr>
</tbody>
</table>
*Alternative part numbers are valid with the same specifications and markings.

Table 2-7 Appliance coupler (printer connection)

<table>
<thead>
<tr>
<th>Country</th>
<th>Appliance coupler (power cable)</th>
<th>Appliance coupler inlet (printer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Detachable terminal as per IEC60320-1 C19 (squared type)</td>
<td>Detachable inlet as per IEC60320-1 C20 (squared type)</td>
</tr>
</tbody>
</table>

![C19](image1) ![C20](image2)

NOTE: Place the wall receptacle close enough to the printer so the plug can be plugged and unplugged easily.

**Powerline disturbances**

As with all computer and electronic equipment, reliable operation of your printer depends on the availability of relatively noise-free AC power.

- In order to ensure optimum performance and reliability, your printer should be protected from variations in line voltage. Lightning, line faults or the switching of lighting or machinery can generate line transients that far exceed the peak value of the applied voltage. If not reduced, these microsecond pulses can disrupt system operation and damage the printer.

- It is recommended to include overvoltage (OVP) and transient protection in the power supply to the printer.

- All electrical noise-generating equipment, such as fans, fluorescent lighting and air-conditioning systems, should be kept separate from the power source used for your printer.

**Grounding**

The printer must be connected to a good-quality ground line in order to avoid electrical risk. Please note your obligation to comply with the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.

The following grounding tasks must be fulfilled to meet the site preparation requirements:

- Grounding wires must be insulated and at least equal in size to the phase conductors.

- Ground impedance must be less than 0.5 Ω or comply with the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.
3 Site preparation checklist

- Are the wall receptacles (wall sockets) suitable for the power cord plug type provided by HP?
- Are the wall receptacles (wall sockets) and electrical installation suitable for the printer’s rated current?

**NOTE:** See Table 2-4 for specific information.

- Do you need a web proxy? If so, write down proxy server name and port.
- Do you have a LAN cable long enough to connect the printer to the network?
- Have the temperature and humidity requirements been satisfactorily met in the print production area, and is there adequate ventilation or air conditioning?
- Have the temperature and humidity requirements been satisfactorily met in the storage area?
- Is the print production area free from dirt and dust?
- Have you arranged for supplies such as substrate and ink cartridges to be available on the day of installation?
- Have you met the requirements specified in this guide?