

# HP Photosmart ML1000 Minilab Solutions

## Site Installation Preparation Specifications



This document provides information needed to successfully design and prepare your retail space for the installation of HP Photosmart ML1000 Minilab Solutions. The designated space and required infrastructure should be prepared prior to the site-ready inspection date listed on the order form.

Infrastructure requirements include sufficient electrical power, network cabling, and adequate ventilation.

Please take the time to review this document and schedule the appropriate installation and preparation activities in order to meet your site-ready inspection date.

This document includes information about the HP Photosmart ML1000 Minilab. (It does not include information about equipment that is not HP-supported or other HP devices included as part of HP Photo Center Solutions.)

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# 1 Customer Responsibilities

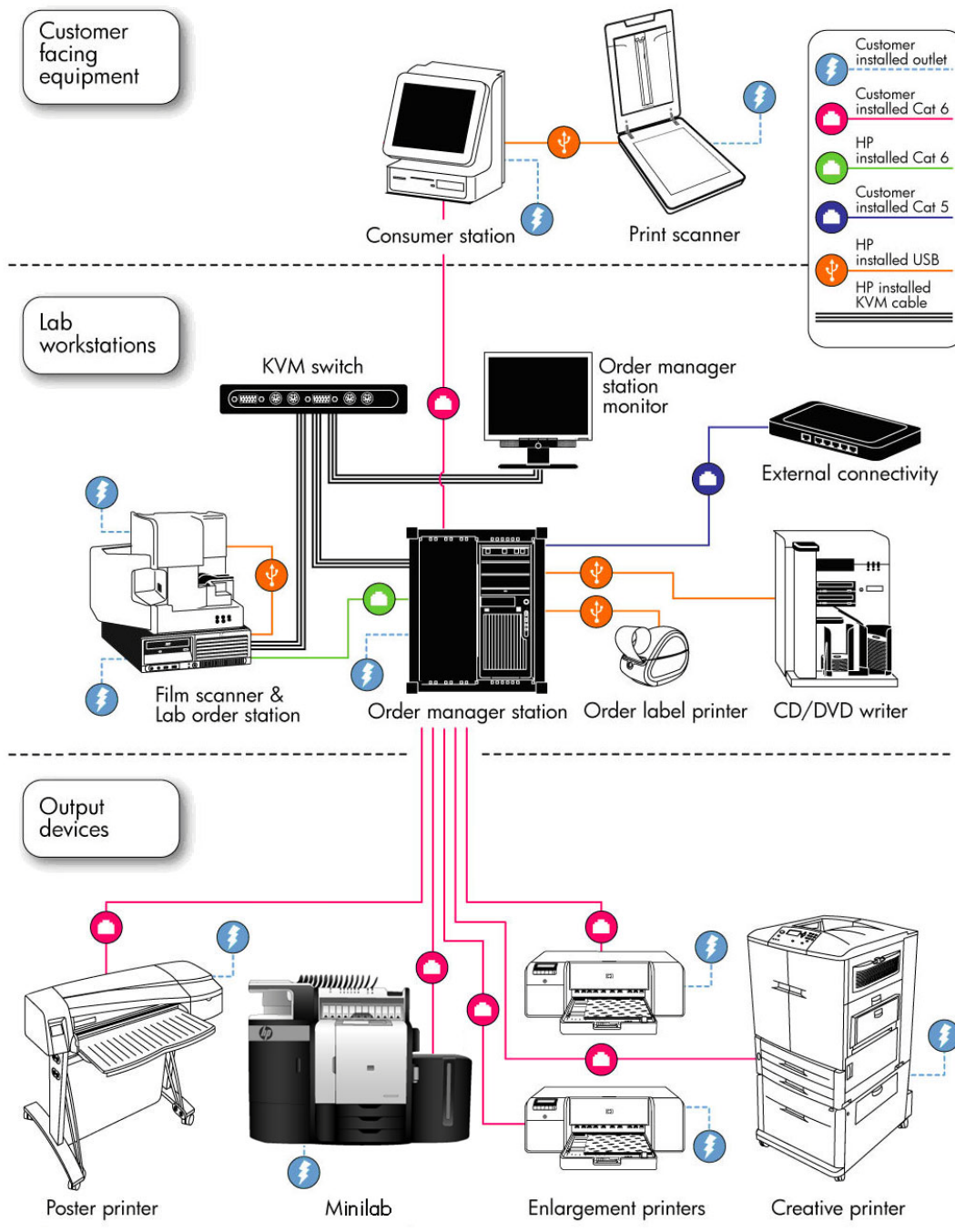
There are three major customer responsibilities that must be completed prior to the site-ready inspection date. These are:

1. Create adequate space for the HP Photosmart ML1000 Minilab equipment. Take into consideration the dimensions of all four components of the minilab, as well as other devices included in the Photo Center. You must also consider the space needed to unpack, operate, and service the minilab. Refer to Table 3.1, and Sections 5, 8, and 10.
2. Prepare the site with adequate power. Take into consideration the amperage required for the minilab. Refer to Table 3.1, as well as Section 4. Refer to Table 3.1, as well as Sections 2 and 7.
3. Prepare to receive the minilab, clear space in the receiving area, and provide detailed delivery instructions to HP. Refer to Section 10.

## 2 Equipment and Connections

The following illustration shows a complete HP Photo Center with the minilab included. The HP Photo Center installed at your location may not include every device shown here.

Figure 2.1: Equipment and connections



## 3 Dimensions, Clearances, Power Requirements, and Connections

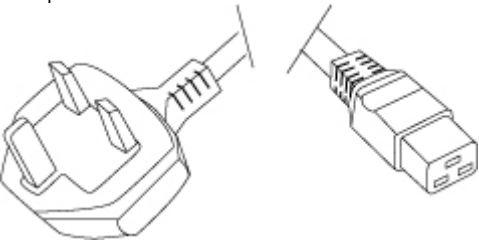
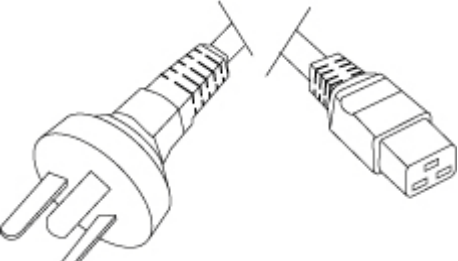
Table 3.1: Equipment dimensions, clearances, power requirements, and connections

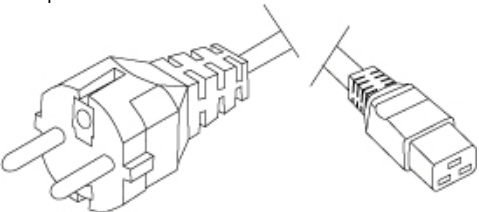
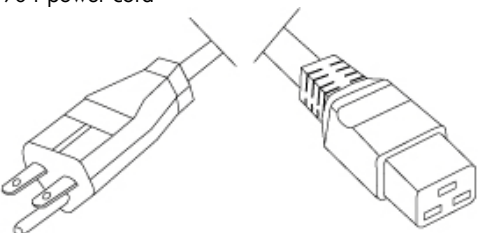
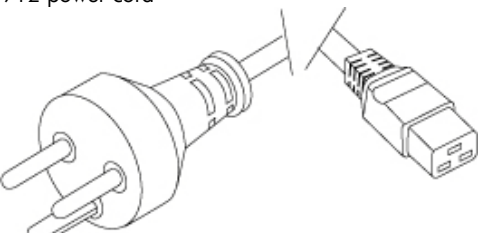
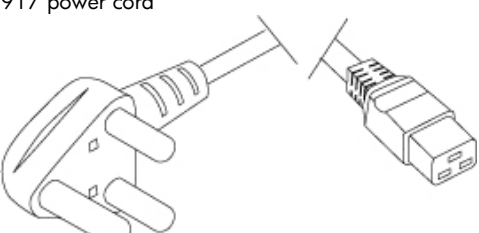
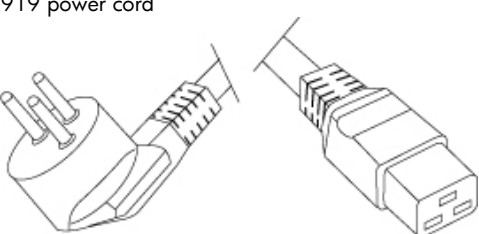
Equipment	Weight kg (lbs)	Dimensions		Power requirements	Connections	Notes
		W	D x H as cm (in)			
HP Photosmart ML1000 Minilab		190 x 142 x 302.3 (75 x 56 x 119)		200-240V AC (+6%; -10%) 12A 50/60Hz Dedicated circuit required	Cat 6	Depth includes HP Photo Finisher in the extended position
- Print Engine	304 (671)	91 x 79 x 152 (36 x 31 x 60)				
- HP Photo Finisher	153 (336.6)	51 x 58 x 137 (20 x 23 x 54)				
- Order Sorter	22 (48.4)	135 x 33 x 41 (53 x 13 x 16)				
- Tray 5	43 (94.6)	48 x 46 x 75 (19 x 18 x 29.5)				

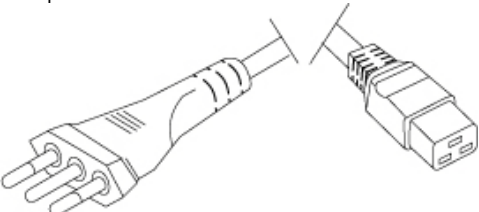
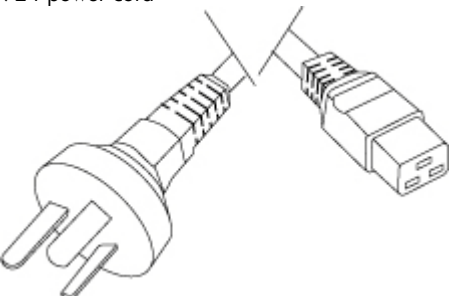
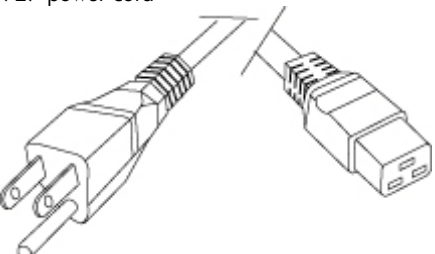
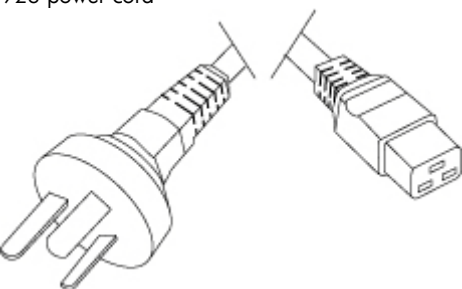
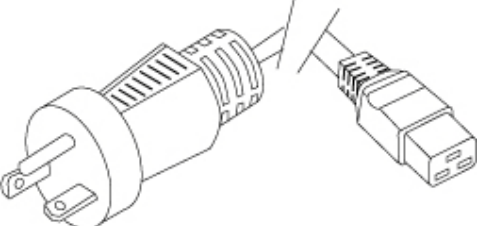
## 4 Electrical Requirements

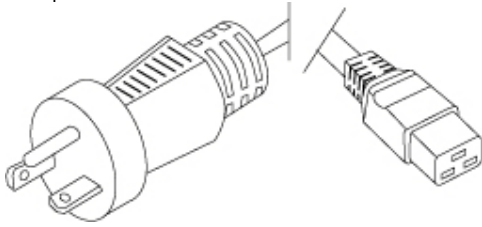
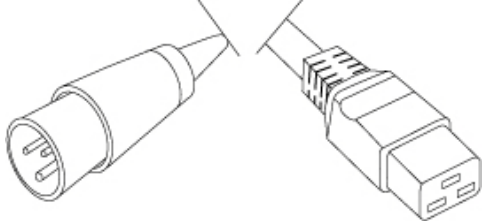
- All outlets should be 220V, grounded, and installed in compliance with local building codes.
- Each circuit should provide the necessary cumulative amperage for all the equipment intended to be powered by that circuit indicated in Table 3.1.
- All power outlets should be easily accessible and located near the equipment.
- All circuits should support power cords and wiring that are standard to the region. The accepted plugs and sockets for the minilab are listed, according to country, in the table below.

Table 4.1: Electrical Hardware

Country/Region	Plug/Socket	Power cord rating
<ul style="list-style-type: none"> <li>• United Kingdom</li> <li>• Bahrain</li> <li>• Hong Kong SAR</li> <li>• Ireland</li> <li>• Kuwait</li> <li>• Lebanon</li> <li>• Malaysia</li> <li>• Malta</li> <li>• Nigeria</li> <li>• Oman</li> <li>• Qatar</li> <li>• Saudi Arabia</li> <li>• Singapore</li> <li>• UAE</li> </ul>	<p data-bbox="711 852 862 873">900 power cord</p> 	13A, 250V AC
<ul style="list-style-type: none"> <li>• Australia</li> <li>• Fiji</li> <li>• New Zealand</li> <li>• Solomon Islands</li> <li>• Tonga</li> </ul>	<p data-bbox="711 1136 862 1157">901 power cord</p> 	15A, 250V AC

Country/Region	Plug/Socket	Power cord rating
<ul style="list-style-type: none"> <li>• Algeria</li> <li>• Antilles</li> <li>• Austria</li> <li>• Belgium</li> <li>• Croatia</li> <li>• Czech Republic</li> <li>• Egypt</li> <li>• Estonia</li> <li>• Ethiopia</li> <li>• Finland</li> <li>• France</li> <li>• Germany</li> <li>• Greece</li> <li>• Hungary</li> <li>• Iceland</li> <li>• Indonesia</li> <li>• Italy</li> <li>• Korea</li> <li>• Latvia</li> <li>• Lebanon</li> <li>• Lithuania</li> <li>• Luxembourg</li> <li>• Morocco</li> <li>• Netherlands</li> <li>• Norway</li> <li>• Poland</li> <li>• Portugal</li> <li>• Russia</li> <li>• Serbia-Montenegro</li> <li>• Slovakia</li> <li>• Slovenia</li> <li>• Spain</li> <li>• Sweden</li> <li>• Tunisia</li> <li>• Turkey</li> <li>• Vietnam</li> </ul>	<p>902 power cord</p> 	<p>16A, 250V AC</p>
<ul style="list-style-type: none"> <li>• Japan</li> </ul>	<p>904 power cord</p> 	<p>15A, 250V AC</p>
<ul style="list-style-type: none"> <li>• Denmark</li> </ul>	<p>912 power cord</p> 	<p>13A, 250V AC</p>
<ul style="list-style-type: none"> <li>• South Africa</li> <li>• India</li> <li>• Namibia</li> </ul>	<p>917 power cord</p> 	<p>16A, 250V AC</p>
<ul style="list-style-type: none"> <li>• Israel</li> </ul>	<p>919 power cord</p> 	<p>16A, 250V AC</p>

Country/Region	Plug/Socket	Power cord rating
<ul style="list-style-type: none"> <li>Chile</li> </ul>	921 power cord 	16A, 250V AC
<ul style="list-style-type: none"> <li>China</li> </ul>	924 power cord 	15A, 250V AC
<ul style="list-style-type: none"> <li>Brazil</li> <li>Philippines</li> <li>Thailand</li> </ul>	927 power cord 	15A, 250V AC
<ul style="list-style-type: none"> <li>Argentina</li> </ul>	928 power cord 	16A, 250V AC
<ul style="list-style-type: none"> <li>USA</li> <li>Canada</li> </ul>	930 power cord 	20A, 250V AC

Country/Region	Plug/Socket	Power cord rating
<ul style="list-style-type: none"> <li>Taiwan</li> </ul>	938 power cord 	20A, 250V AC
<ul style="list-style-type: none"> <li>Switzerland</li> <li>Lichtenstein</li> </ul>	948 power cord 	16A, 250V AC

## 5 Equipment Dimensions

Having the predetermined area open and clean prior to the inspection is critical. HP cannot schedule the several resources that are involved in shipping and delivery unless HP is certain all is ready. Predetermine where the equipment will go, and have the space cleared and open for the equipment prior to the site-ready date.

For specific dimensions, see Table 3.1. For clearance dimensions, see Chapter 10 Clearance Requirements.



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## 6 Environmental Considerations

Table 6.1: Environmental guidelines

Operating Temperature	Relative Humidity	Storage/ Shipping Temperature	Storage/ Shipping RH	Altitude
15°C to 27°C (59°F to 80°F)	20% to 65%	-40°C to 65°C (-40°F to 149°F)	5% to 90%	Operating: 0 to 2438 m (8000 ft) Storage/Shipping: 0 to 5906 m (15000 ft) *

\* Minilab must still be shipped in a pressurized environment.

- The minilab must not be exposed to any change in temperature/humidity that causes condensation to form in or on the equipment.
- Lighting will play a large role in image perception.
- Avoid placing printing components in the path of other ventilation equipment or obtrusive air flows.

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## 7 Ethernet Connectivity Requirements

It is the customer's responsibility to install the required CAT-6 network cabling prior to the site-ready inspection date.

- Use pre-made cables only (no on-site crimped cables or connections).
- Cable directly between the minilab's print engine and the fulfillment station PC switch, with no intermediate hubs, switches, or routers.
- Label both ends of each cable for identification with a scheme such as "A, B, C."
- Ethernet connector wall plates may be used.
- No crossover cables required.
- Maximum cable length allowed is 30 m (100 ft).
- For direct cabling (recommended):
  - RJ45 male endpoint connectors.
  - Leave a 1.5 m (5 ft) coil of cable at each termination point.

## 8 Network Cabling Responsibility

It is the customer's responsibility to install the required network cabling prior to the site-ready inspection date.

Connect to Photo Center router (Eth 0/2 port). General cable specifications from Photo Center Devices – Ethernet Connectivity Requirements (above) apply.

External connectivity requirements include outbound Internet connectivity at a minimum bandwidth of 64kbps with either native IPSec protocol support or open outbound UDP ports 500 & 4500 to the 213.155.89.112/28 and 156.152.40.41.

Internet connectivity at a bandwidth of 512kbps is recommended, and may be shared; other connected services offered by HP may have additional connectivity requirements.

The following tables specify which cables are to be installed by the customer prior to site-ready inspection, and which are to be installed by HP during Photo Center installation.

**NOTE:** Certain devices will not require installed cabling if an operations console is included in the Photo Center installation.

Table 8.1: Customer-installed network cabling

	Wired to:	Installed by:	Quantity
Consumer station location	Network switch/router location	Customer, prior to Site-ready Inspection	1+
Behind-counter HP Photosmart ML1000 Minilab location	Network switch location	Customer, prior to Site-ready Inspection	1+
Retailer LAN Switch/Router (for external connectivity or 3rd-party minilab connection)	Network switch/router location	Customer, prior to Site-ready Inspection	1

Table 8.2: HP-installed network cabling

	Wired to:	Installed by:	Quantity
Order manager PC	Network switch	HP service technician, during installation	1
VPN Router	Network switch	HP service technician, during installation	1
Lab order station PC	Network switch	HP service technician, during installation	1

## 9 Receiving, Uncrating, and Space Requirements

Adequate space is needed for uncrating and initial assembly of the minilab. Two to five pallets need to be accommodated. Please refer to Table 10.1 for examples.

Verify that the path from the point of entry to the installation site meets the minimum required size — 0.9 m (3 ft) (width) x 0.9 m (3 ft) (diameter) x 1.8 m (6 ft) (height) — is free of obstruction and is free of stairs.

Customers assume responsibility for recycling and disposal of all packaging and crating materials. However, the HP logistics provider can also process recycling and dispose of all packaging and crating materials. A surcharge fee may apply.

It is the customer's responsibility to receive and safely hold the equipment until the scheduled install date and time. If it is not possible to house the equipment prior to the arrival of the installers, a coordinated delivery and installation may be arranged. A surcharge fee may apply.

**NOTE:** Make sure that a hand truck or furniture cart is available for use.

Please contact your sales representative for details.

Figure 9.1: Space requirements

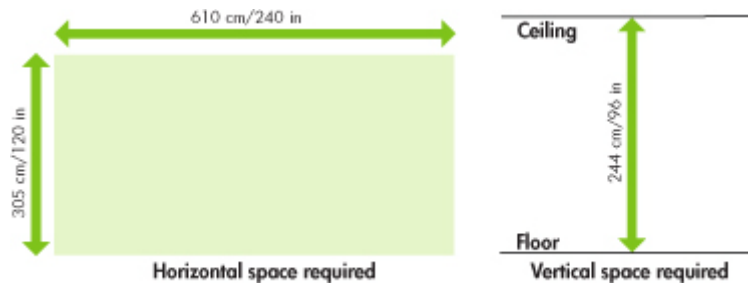


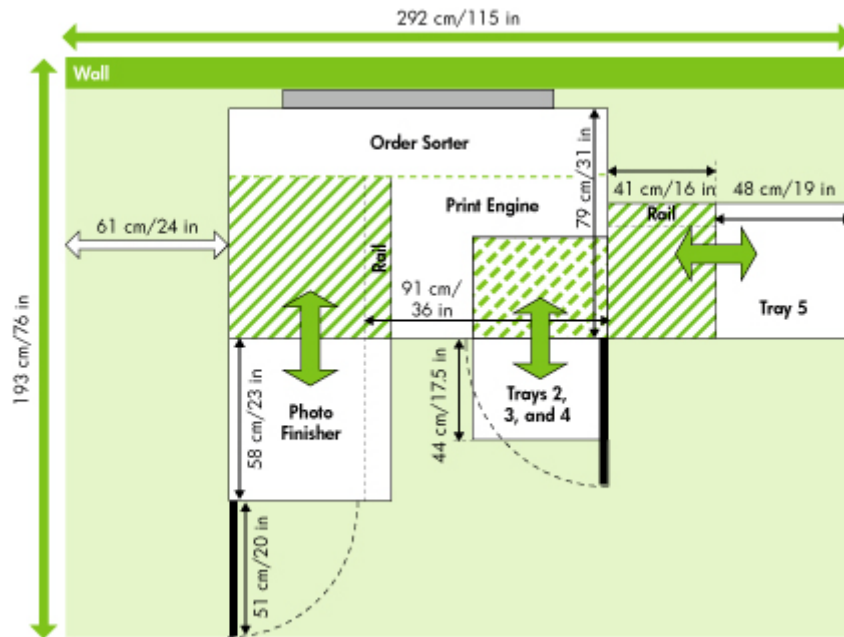
Table 9.1: Number of pallets varies by HP Photosmart ML1000 Minilab solution

Configuration	Approximate number of pallets
Base minilab solution	2-5
	Dimensions WxDxH in cm (inches)
Crate or pallet	122 x 102 x 178 (48 x 40 x 70)

## 10 Clearance Requirements

In laying out the location of the HP Photosmart ML1000 Minilab equipment within your workflow, be certain there is adequate clearance for operation and service.

### Minilab operator space requirements

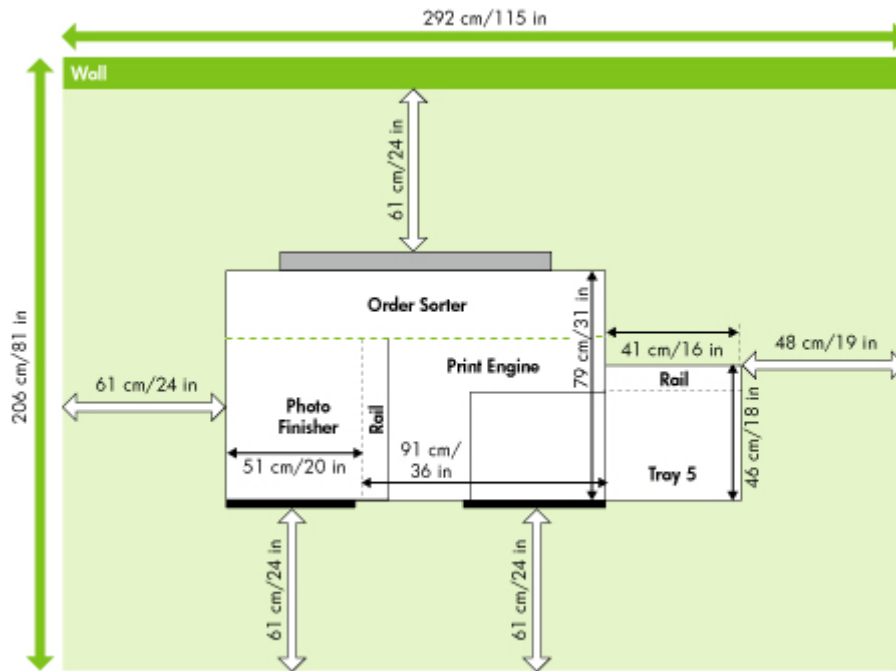


**NOTE:** Use this illustration to make sure that there is sufficient space around the print engine to operate it, open the trays, or detach the components to clear jams.

Table 10.1: HP Photosmart ML1000 Minilab operator space dimensions

Configuration	Width in cm (in.)	Depth in cm (in.)	Total Clearance Required
HP Photosmart ML1000 Minilab	292 cm (115 in)	193 cm (76 in)	5.6 sq. m (61 sq. ft.)

## Minilab service space requirements



**NOTE:** Use this illustration to make sure that there is sufficient space around the print engine to remove Trays 2, 3, and 4, remove the rear cover and service the print engine, or extend the photo finisher or Tray 5.

Table 10.2: HP Photosmart ML1000 Minilab service space dimensions

Configuration	Width in cm (in.)	Depth in cm (in.)	Total Clearance Required
HP Photosmart ML1000 Minilab	292 cm (115 in)	206 cm (81 in)	6.01 sq m (64.8 sq ft)

## 11 Recommended Supplies

Table 11.1: Supplies for Daily Use (supplies vary by equipment installed)

	Recommended Quantity		Recommended Quantity
HP 76 black ink cartridge C5089A	1	HP Vivid Photo glossy (1000 sheets) 16 x 22 cm (6.25 x 8.5 in) Q8900A	1
HP 76 cyan ink cartridge C5090A	1	HP Vivid Photo matte (1000 sheets) 16 x 22 cm (6.25 x 8.5 in) Q8901A	1
HP 76 gray ink cartridge C5094A	1	HP Vivid Photo glossy (1500 sheets) 13.3 x 19 cm (5.25 x 7.5 in) Q8902A	1
HP 76 light magenta ink cartridge C5093A	1	HP Vivid Photo matte (1500 sheets) 13.3 x 19 cm (5.25 x 7.5 in) Q8903A	1
HP 76 magenta ink cartridge C5091A	1	HP Vivid Photo glossy (750 sheets) 21 x 31 cm (8.25 x 12.25 in) Q8904A	1
HP 76 yellow ink cartridge C5092A	1	HP Vivid Photo matte (750 sheets) 21 x 31 cm (8.25 x 12.25 in) Q8905A	1
		HP Vivid Photo glossy (1000 sheets) 21 x 22 cm (8.25 x 8.5 in) Q8906A	1
		HP Vivid Photo matte (1000 sheets) 21 x 22 cm (8.25 x 8.5 in) Q8907A	1

Table 11.2: Infrequently Accessed Supplies (back-room stock)

	Recommended Quantity
HP Minilab ink droplet collector (CG161A)	1
HP Minilab backside printer ribbon (CG145A)	1
HP Minilab backside printer ribbon (CG145A)	1
HP Minilab finisher trim bag (CG160A)	1
HP Equipment cleaning wipe (CG146A)	1
HP Minilab large pen wipe (CG143A)	1

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