



# HP Latex R1000/R2000/R530 Series 64 in and HP Latex R1000/R2000 98 in Extension Tables Introductory Information

## SUMMARY

Before using your printer, read, understand, and follow the Introductory Information.

## Legal information

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Edition 1

### **Legal notices**

The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statement accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

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# 1 HP Latex R1000/R2000/R530 Series 64 in and HP Latex R1000/R2000 98 in Extension table

## Introductory Information

This introductory document includes legal notices and safety precautions, describes the use of the control panel, and gives some relevant specifications.

### What is it?

Foldable tables for rigid substrate handling. When attached to the ends of standard tables, the extension tables enable safe and reliable handling of large rigid substrate sheets.

This HP Latex R printer document is a supplement to the main HP Latex R printer documentation. It includes legal notices, safety instructions, and warranty statement.

For more information, see your HP Latex R printer documentation.

### Where is the user guide?

The user guide for your printer and this accessory can be downloaded from:

- <http://www.hp.com/go/latexR1000/manuals>
- <http://www.hp.com/go/latexR2000/manuals>
- <http://www.hp.com/go/latexR530/manuals>

Further information is available from:

- <http://www.hp.com/go/latexR1000/support>
- <http://www.hp.com/go/latexR2000/support>

Videos and more information about how to use the printer can be found in:

- <http://www.hp.com/supportvideos>
- <http://www.youtube.com/HPsupportAdvanced>
- <http://www.hp.com/go/latexR1000/training>
- <http://www.hp.com/go/latexR2000/training>
- <https://www.hp.com/go/latexR530/training>

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## Safety precautions

Before using your printer, read, understand, and follow these safety precautions, and your local Environmental, Health, and Safety regulations.

You are expected to have the appropriate technical training and experience necessary to be aware of hazards to which you may be exposed in performing a task, and take appropriate measures to minimize the risks to yourself and to other people.



**NOTE:** Read and follow all safety precautions before installing and/or using any HP Latex R printer accessory.

## General safety guidelines

Please read these safety guidelines carefully.



**WARNING!** The information provided by the printer status beacon is for informational purposes only, and is not related to any safety provision or safety states. Warning labels on the printer must be always considered when operating the printer, regardless of the status indicated by the printer status beacon.

Turn off the printer and call your service representative in any of the following cases:



- A power cord or plug is damaged.
- The curing enclosures are damaged.
- The printer has been damaged by an impact.
- There is any mechanical or enclosure damage.
- Liquid has entered the printer.
- There is smoke or an unusual smell coming from the printer.
- The printer has been dropped or the curing module has been damaged.
- The printer is not operating normally.
- There is any mechanical or enclosure damage.

Turn off the printer in either of the following cases:


- During a thunderstorm
- During a power failure

Take special care with zones marked with warning labels.

## Important operating notes

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-  **WARNING!** Never leave the printer without supervision when the power switch is turned on.
  -  **CAUTION:** Automatic white-ink system maintenance cannot occur when the printer is completely powered down. If the printer will be unused for a long period of time (more than 48 hours), leave only the white-ink switch turned on, and follow the instructions in the User Guide about power on/off modes.
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## Electrical shock hazard

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-  **WARNING!** The internal circuits of curing zones, curing driver and built-in power supply operate at hazardous voltages capable of causing death or serious personal injury.
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The printer uses two power cords. Unplug both power cords before servicing the printer.

To avoid the risk of electric shock:


- The printer must be connected to earthed mains outlets only.
- Do not attempt to dismantle the curing modules.
- Do not remove or open any closed system covers or plugs.
- Do not insert objects through slots in the printer.

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-  **NOTE:** A blown fuse may indicate malfunctioning electrical circuits within the system. Call your service representative, and do not attempt to replace the fuse yourself.
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## Checking the functionality of the Residual Current Circuit Breakers

Following standard Residual Current Circuit Breaker (RCCB) recommendations, it is recommended that the RCCBs are tested on a yearly basis. The procedure is as follows:

1. Turn off the built-in computer using the Internal Print Server's Shutdown button. Do not turn off the printer from the mains switch or the circuit breakers.

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-  **NOTE:** The shutdown process takes some time to complete. Wait until the green power-enabled light is off before proceeding.
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2. Once the computer is off, test that the RCCB works correctly by pressing the test button.
  - If the RCCB does not trip when the test button is pressed, this indicates that it has failed. The RCCB must be replaced for safety reasons; call your service representative to remove and replace the RCCB.
  - If the RCCB trips, this indicates that it is working correctly; reset the RCCB to its normal on state.


## Fire hazard

The drying and curing subsystems of the printer operate at high temperatures. Call your service representative if the printer's built-in Residual Current Circuit Breaker (Ground Fault Circuit Interrupter) is repeatedly tripped. To avoid the risk of fire, take the following precautions:

- Use the power supply voltage specified on the nameplate.

- Connect the power cords to dedicated lines, each protected by a branch circuit breaker according to the rating of the wall socket. Do not use a power strip (relocatable power tap) to connect the power cords.
- Take care not to spill liquid on the printer. After cleaning, make sure all components are dry before using the printer again.
- Do not use aerosol products that contain flammable gases inside or around the printer.
- Do not block or cover the openings of the printer.
- Do not attempt to modify the drying or curing module, or the e-cabinet.
- Ensure that the operating temperature of the substrate, as recommended by its manufacturer, is not exceeded. If this information is not available, ask the manufacturer. Do not load substrates that cannot be used at an operating temperature above 125°C ( 257°F).
- Do not load substrates with auto-ignition temperatures below 250°C ( 482°F). If this information is not available, printing must be supervised at all times. See note below.

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 **NOTE:** Test method based on EN ISO 6942:2002: Evaluation of materials and material assemblies when exposed to a source of radiant heat, method B. The test conditions to determine the temperature when the substrate starts ignition (either flame or glow) were: Heat flux density: 30 kW/m<sup>2</sup>, copper calorimeter, K-type thermocouple.

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- Proper maintenance and genuine HP consumables are required to ensure that the printer operates safely as designed. The use of non-HP consumables (foams, filters, printhead cleaner roll, and inks) may present a risk of fire.
- The LED array supports, beam, and enclosures can reach high temperatures. To avoid the risk of fire, take the following precautions:
  - Take special care with zones marked with warning labels.
  - Do not place objects covering the LED array supports, beam, or enclosures.
  - Take care not to spill liquid on the accessory. After cleaning, make sure all components are dry before using the printer.
  - Do not attempt to modify the LED array supports, beam, or enclosures.

## Heat hazard

The drying and curing subsystems of the printer operate at high temperatures and can cause burns if touched.

Printzone lights, beam and enclosures can reach high temperatures. To avoid the risk of burns, take the following precautions:

- Do not touch the internal enclosures of the printer's drying and curing modules, nor the vapor removal thermal blankets.
- Take special care when accessing the substrate path.
- Take special care with zones marked with warning labels.
- Do not place objects covering the LED array supports, beam, or enclosures.


- Do not attempt to modify the LED array supports, beam, or enclosures.
- Remember to let the printer cool down before performing some maintenance operations.

## Mechanical hazard

The printer has moving parts that could cause injury. To avoid personal injury, take the following precautions when working close to the printer:

- Keep your clothing and all parts of your body away from the printer's moving parts.
- Avoid wearing necklaces, bracelets, and other hanging objects.
- If your hair is long, try to secure it so that it will not fall into the printer.
- Take care that sleeves or gloves do not get caught in the printer's moving parts.
- Avoid standing close to the fans, which could cause injury and could also affect print quality (by obstructing the air flow).
- Do not touch gears or moving rolls during printing.
- Do not operate the printer with covers bypassed.
- Do not touch alignment or lateral bars during printing.
- Use personal protective equipment to manipulate rigid substrates.

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 **WARNING!** Take care when loading or collecting substrate, and never put your hands below the alignment bar, drying beam, or curing modules after giving the command to print. Those parts may move and adjust automatically and can cause you serious injuries

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- For Roll Printing Kit accessory: Take care when using the air gun. When used for cleaning purposes, make sure to use it according to local regulations: additional safety provisions may apply.
- Ensure that the tables are properly latched to the printer before using them. Before unlatching the table always clear it, remove and store both drop-in rollers in position before folding the table.

## Light radiation hazard

UV radiation can be emitted from the LED array in compliance with the requirements of the exempt group of IEC 62471:2006: Photobiological safety of lamps and lamp systems. Optical barriers are used to determine the presence. However, you are recommended not to look directly for a long time at the output LEDs while they are on.

## Sound pressure level

The sound pressure level could exceed 70 dBA in some print modes. Hearing protection may be required.

## Chemical hazard

Safety data sheets identify ink ingredient and ventilation requirements to ensure any airborne exposure is adequately controlled.

Current printer ink systems material safety data sheets are available at: <http://www.hp.com/go/msds>.



Air conditioning and ventilation should meet local environmental and health and safety (EHS) guidelines and regulations. For more detailed information, see the “Ventilation and air conditioning” section included in the site preparation guide, available at:

<http://www.hp.com/go/latexR1000/manuals> and <http://www.hp.com/go/latexR2000/manuals>.

## Heavy substrate hazard

Special care must be taken to avoid personal injury when handling heavy substrates.

- Handling heavy substrate rolls always requires two people. Care must be taken to avoid back strain and/or injury.
- Always use a forklift, pallet truck, or other handling equipment to lift substrates. The printer has been designed to be compatible with many of these devices.
- Always wear personal protective equipment including boots and gloves.

## Ink handling and condensates

HP recommends that you wear gloves when handling ink system components and condensates.


## Ventilation


As with all equipment installations, to maintain ambient comfort levels, air conditioning and ventilation in the work area should take into account that the printer produces heat.


Air conditioning and ventilation should meet local environmental, health, and safety (EHS) guidelines and regulations.


For a more prescriptive approach to adequate ventilation, refer to the ANSI/ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 62.1-2013: Ventilation for Acceptable Indoor Air Quality. An example minimum exhaust rate of 2.5 L/s.m<sup>2</sup> (0.5 cfm/ft<sup>2</sup>) of fresh air for “copy, printing rooms” is specified.

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 **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 to prevent dust from entering the room.

 **IMPORTANT:** Read and follow all safety precautions before installing and/or using any HP Latex printer accessory.

 **IMPORTANT:** Check compatibility and incompatibility between different HP Latex printer accessories before any installation. This information can be found in the user guide at <http://www.hp.com/go/latexR1000/manuals> and <http://www.hp.com/go/latexR2000/manuals>.

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## Warranty statement

HP warrants to you, the end-user customer, that HP large-format printing accessories are free from defects in materials and workmanship. If HP receives notice of such defects during the warranty period (up to 90 days from date of purchase\*), HP will, at its option, either replace products that prove to be defective with the same or comparable product at HP's option, or HP may elect to refund your purchase price. This warranty will be voided by misuse, improper physical environment, accident, or improper maintenance. If you need warranty support during the warranty support period, you can locate your nearest HP support location here: <http://www.hp.com/support>.

To the extent allowed by local law, the above warranty is exclusive; no other warranty or condition, whether written or oral, is expressed or implied, and HP specifically disclaims any implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose. To the extent allowed by local law, in no event will HP or its suppliers be liable for direct, special, incidental, consequential (including lost profit or data), or other damage, whether based on contract, tort, or otherwise. The warranty terms contained in this statement, except to the extent lawfully permitted, do not exclude, restrict, or modify and are in addition to the mandatory statutory rights applicable to the sale of this product to you.

\* Proof of purchase required. Customers should retain a copy of the purchase order (PO). When submitting a claim, attach a copy of the PO including the name of the company from which the accessory was purchased, the purchase date, and the PO number.

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 **NOTE:** Check compatibility and incompatibility between different HP Latex printer accessories before any installation. This information can be found in the user guide at <http://www.hp.com>.

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