Product Environmental Profile

HP Color LaserJet 4700 Series Printer
September/2005

hp

Hewlett-Packard Company
LaserJet Business Products
11311 Chinden Boulevard
Boise, Idaho USA 83714

Product description

Model: HP Color LaserJet 4700 (Q7491A) and 4700n (Q7492A)

Weight: 47.7 kg
Height: 58.2 cm
Width: 52.1 cm
Depth: 59.8 cm

Model: HP Color LaserJet 4700dn (Q7493A)

Weight: 48.9 kg
Height: 62.9 cm
Width: 52.1 cm
Depth: 59.8 cm

Model: HP Color LaserJet 4700dtn (Q7494A)

Weight: 104.3 kg
Height: 101.1 cm
Width: 63.0 cm
Depth: 71.5 cm

Model: HP Color LaserJet 4700ph+ (Q7495A)

Weight: 130.5 kg
Height: 137.6 cm
Width: 63.0 cm
Depth: 71.5 cm
(All measurements provided are for a non-packaged product)

Environmental certifications

This product conforms to the following voluntary environmental program criteria:

- ENERGY STAR®

- Blue Angel *(Color LaserJet 4700dn model)*

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Other features

HP has designed this product with the following additional features to help the user conserve resources:

- Instant-On Fusing—saves energy
- Automatic Two-Sided Printing (Duplexer Accessory)—saves paper
- N-Up Printing—saves paper

Warranty, service & options

Standard Warranty: 1 years
Extended Warranty: Optional

Spare Parts Available: 5 years after end of production
Service Available: 5 years after end of production

The product can be upgraded, or its useful life extended as follows:

- Expandable Memory
- Optional Network Connectivity
- Optional Accessories (Duplexer, 500-Sheet Feeder, Stapler/Stacker)

Operational data

Operational Mode: up to 31 pages-per-minute in normal print mode (letter size paper)

Energy Consumption:

Operation:	< 623 W
Sleep:	< 18 W (Per U.S. EPA ENERGY STAR® Test Guidelines)
Idle/Ready/Standby:	< 66 W
Off:	< 0.3 W

Acoustical Noise: (declared sound power (LwAd) per ISO 7779/ISO 9296)

Operation:	6.7 bels (A)
Idle/Ready/Sleep:	4.7 bels (A)

Chemical Emissions:

Air emissions testing is performed in accordance with "Test method for the determination of emissions from hardcopy devices with respect to awarding the environmental label for office devices RAL-UZ 62, RAL-UZ 85 and RAL-UZ 114"   BAM   Jun 2003.

The exposure scenario (concentration) is based on a generic office model; consisting of two hours of printing in an eight-hour day in a 32 cubic meter room with a ventilation rate of 0.8 air changes per hour. (For color printing systems, a combination of black/white and color images are generated during the air emissions testing.)

| parameter | concentration (mg/m³-) | |
	operation	standard/guideline
ozone	Below Quantifiable Limit	0.200 [1]
TVOCs [4]	0.070	0.500 [2]
dust	0.012	0.050 [3]

(1) from US and German occupational exposure limits (Threshold Limit Values established by the American Conference of Governmental Industrial Hygienists and Maximale Arbeitsplatz Konzentration in the Federal Republic of Germany)
(2) based on indoor air quality guidelines established for USEPA and State of Washington new office occupancies
(3) based on indoor air quality guidelines established for State of Washington new office occupancies
(4) TVOCs – total volatile organic compounds

Product safety information

For chemical information about related HP printer supplies, please refer to Material Safety Data Sheets for these products at: http://www.hp.com/go/msds

Product restricted materials

The information in this section refers to materials restricted by regulation or law and applies to parts, components and products sold by HP. This product does not contain:

- Asbestos
- Cadmium as a stabilizer, coloring agent or surface coating treatment.
- Lead carbonates or sulfates are not contained in any paint applied.
- Mercury (except lamps containing less than 10 mg)
- Chlorofluorocarbons (CFCs), halons, HCFCs, HBFCs, 1,1,1 trichloroethane, carbon tetrachloride or methyl bromide.
- Chlorinated or brominated dioxins or furans are not present at a concentration that is currently prohibited by law.
- Polychlorinated biphenyls (PCB) or polychlorinated terphenyls (PCT).

For additional product material information about this product, see "additional product materials" below. For product material information for associated batteries and packaging, see "batteries" and "packaging", below.

Additional product materials

- Plastic parts do not contain polybrominated biphenyls (PBBs) or polybrominated biphenyl ethers (PBBEs) (also known as polybrominated biphenyl oxides (PBBOs)).
- Halogenated flame-retardants are not used in the housing plastics.

Batteries

The batteries contained in or supplied by Hewlett-Packard for this product do not contain mercury or cadmium.

Type:	Lithium Carbon Monofluoride coin cell
Weight:	1.6 g
Location:	Attached to printer formatter PCA.

- Easily Removable: No

Packaging

- Packaging materials do not contain lead, mercury, cadmium or hexavalent chromium as an intentionally added element. The sum concentration of incidental lead, mercury, cadmium and hexavalent chromium in the packaging for this product is less than 100mg/kg.

- No chlorofluorocarbons (CFCs), halons, HCFCs, HBFCs, 1,1,1 trichloroethane, carbon tetrachloride or methyl bromide are used in plastic foam packaging materials.

- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

External:

Corrugated Paper[1]   Weight: 4.94 kg

Internal:

Polystyrene-Foam   Weight: 1.34 kg
Polyethylene-Foam   Weight: 0.00 kg
Polyethylene-Bag(s)   Weight: 0.15 kg
Other?   Weight: 9.12 kg

[1]Actual weight will vary depending on geographic location.

HP designs packaging to be recyclable where practical. The recyclability of the packaging depends on the availability of municipal recycling programs for the packaging used.

- To ensure compliance with local packaging take-back requirements, in the following European countries, HP is a member of a packaging recovery scheme. Some countries are operating a "Green Dot" system as indicated.

Countries with Green Dot systems

- Austria (ARA)

- Belgium (Fostplus: consumer products) (Val-I-Pac: professional products)

- France (Eco-Emballages)

- Germany (DSD)

- Ireland (Repak)

- Portugal (Punto Verde SA)

- Spain (Ecoembes)

- Sweden (Repa Registret)

Countries with no Green Dot system

- Finland (PYR Ltd)

- Italy (Conai)

- Norway (Materialretur)

- Switzerland (SWICO)

- UK (Valpak)

- Some larger HP offices also accept HP product packaging* from customers in countries or areas without local packaging recovery schemes. Contact your local HP sales office for more information.

*This does not include packaging that is contaminated or contains dangerous substances, which should be disposed of in accordance with local regulations.

End-of-life management/ recyclability

Hewlett-Packard offers end-of-life HP product return programs in certain geographic areas.
To determine if a program is available for this HP product in your area, please refer to our recycling
Web site at http://www.hp.com/recycle or contact your nearest HP sales office. Products
returned to HP will be recycled, recovered or disposed of in a responsible manner

This HP product is designed to enhance end-of-life disposal options by:

- Marking plastic parts weighing more than 25g according to ISO 11469 international standards
- Eliminating glues and adhesives from product construction where technically feasible
- Using common fasteners
- Including snap-in features
- Plastic housing parts are not coated or painted.

This HP product contains the following materials that may require special handling at end-of-life:

- A lithium ion battery located on the printer formatter PCA.

For recycling information, you can contact http://www.hp.com/recycle or contact your local
authorities or the Electronics Industries Alliance: http://www.eiae.org.

Company information

- Environmental Policy
  Hewlett-Packard Company established an environmental policy in 1992 with the goals of
  providing products and services that are environmentally sound throughout their lifecycles and
  conducting its operations worldwide in an environmentally responsible manner. HP has
  strengthened that commitment with the intent to be the recognized leader in inventing
  environmentally sustainable solutions for the common good.
- ISO 14001
  In June 2000 HP achieved ISO 14001 certification—the international standard for environmental
  management systems—of its worldwide manufacturing operations. Issued by the independent
  registration firm, Bureau Veritas Quality International (BVQI), this global certification is your
  assurance that HP's policies, procedures and organization for managing the environmental
  aspects of our operations meet the voluntary requirements of ISO 14001.
- Ozone-Depleting Substances
  Hewlett-Packard has eliminated all manufacturing process uses of chlorofluorocarbons (CFCs),
  HBFCs, halons, 1,1,1 trichloroethane (TCA), carbon tetrachloride and methyl bromide, and we
  require suppliers to avoid using these chemicals in their manufacturing processes.

For more information

The following information is available online at http://www.hp.com/environment
- More about HP's commitment to the environment
- Material Safety Data Sheets (MSDS) for HP printer supplies
- Environmental profiles for many related HP products
- End-of-life return and recycling programs for selected HP products, depending upon geographic
  location