



hp hardware

environmental  
profile

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Hewlett-Packard Company  
Shared Printer Organization  
POB 15  
Boise, ID USA 83707-0015

## product description

Model: HP Color LaserJet 4650 Series Printers

Models: Weight, Width x Depth x Height

HP Color LaserJet 4650 (Q3668A):	36.8 kg, 48.1 x 50.8 x 56.7 cm
HP Color LaserJet 4650n (Q3669A):	36.8 kg, 48.1 x 50.8 x 56.7 cm
HP Color LaserJet 4650tn (Q3670A):	36.8 kg, 48.1 x 50.8 x 56.7 cm
HP Color LaserJet 4650dtn (Q3671A):	44.0 kg, 48.1 x 50.8 x 69.4 cm
HP Color LaserJet 4650hdn (Q3672A):	65.8 kg, 48.1 x 64.6 x 103.4 cm

(Measurements provided are for a non-packaged product)

## environmental certifications

This product conforms to the following voluntary environmental program criteria:

- ENERGY STAR® (Version 3.0)
- Blue Angel (March 2004 Edition)

## other features

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

- Inductive Fusing (Fast turn on) - saves energy
- Automatic Two-Sided Printing (4650 dn/dtn/hdn models only)—saves paper
- N-Up Printing—saves paper

## warranty, service & options

Standard Warranty: 1 year  
Extended Warranty: 1-5 years, 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 (Printer Cabinet, 500-Sheet Input Tray, two by 500-sheet paper feeder, Network Connectivity Options)

## operational data

Operational Mode: up to 22 pages-per-minute color or monochrome printing

Power Consumption (Maximum level for all models):

Operation:	<560 W
Ready:	<40 W
Sleep:	<31 W (Per U.S. EPA ENERGY STAR® Test Guidelines)
Off:	<0.3 W

Default time to Sleep mode = 30 minutes

Acoustical Noise (LaserJet 4650): (declared sound power ( $L_{wAd}$ ) per ISO 7779/ISO 9296)

Operation:	6.4 bels
Ready:	5.0 bels

Chemical Emissions:

(Per RAL-UZ 85, Annex 3,4,5)

Ozone Operation: Below Quantifiable Level  
TLV/MAK=0.2 mg/m<sup>3</sup>

Styrene Operation: 0.63 mg/m<sup>3</sup>  
TLV/MAK=85 mg/m<sup>3</sup>

Dust Operation: Below Quantifiable Level  
TLV=10mg/m<sup>3</sup> inhalable particulate, 3mg/m<sup>3</sup> respirable  
particulate; MAK=6mg/m<sup>3</sup>

TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists.

MAK (Maximale Arbeitsplatz Konzentration): Maximum workplace concentration in the Federal Republic of Germany.

Note: Tests are conducted using HP printing supplies. Results with other than HP supplies may differ.

## 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>

## recycled paper use

This product is capable of using recycled papers when the paper meets the guidelines outlined in the HP Print Media Guide. This product is suitable for the use of recycled paper according to EN 12281.

## 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

- This product does not contain batteries.

## 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 or DIN 6120 standards.

Packaging Weight (LaserJet 4650 model):

Corrugate/Paper <sup>1</sup>	Weight: 10.65 kg
Wood	Weight: 7.71 kg
Polypropylene Foam	Weight: 0.62 kg
Polyethylene-Bag(s)	Weight: 0.17 kg

<sup>1</sup>Made with recycled paper. Actual proportions of recycled content 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/go/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

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

- Lead in solder.

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

The information presented in this document is based largely on the recommendations made by the ECMA Standardizing Information and Communication Systems Technical Committee 38, Technical Report 70, and is believed accurate and reliable for operating the HP Color LaserJet 4650 printer series, including recommended maintenance and use of supplies and accessories that meet all requirements and recommendations presented in the user/service manuals. Data are the most current available to Hewlett-Packard at the time of preparation and is issued as a matter of information only. No warranty as to accuracy or completeness is expressed or implied. The information in this document is subject to change without notice.

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