


Product environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).
Additional information regarding each item may be found under P14.

Brand *	<i>Think</i>	Logo 
Company name *	<i>Lenovo</i>	
Contact information *	<i>Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com</i>	
Internet site *	<i>http://www.lenovo.com/social_responsibility/us/en/environment.html</i>	
Additional information	<i>The latest version of this document can be found at http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html</i>	

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	<i>Traditional Desktop</i>
Commercial name *	<i>ThinkCentre M800 Tower</i>
Model number *	<i>10FV, 10FW</i>
Issue date *	
Intended market *	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other
Additional information	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality Control		Requirement met	
		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Model number *	10FV, 10FW	Logo	Lenovo
Issue date *	2015/11/13		

Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/materials.html	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3	Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

Model number *	10FV, 10FW		
Issue date *	2015/11/13	Logo	Lenovo

Product environmental attributes - Market requirements (continued)	Requirement met
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Item	Yes	No	n.a.
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P9 Energy consumption

9.1 For the product the following power levels or energy consumptions are reported: [See P14](#)

Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	
Peak (On-max)	W	W	W	Full load	<input type="checkbox"/>

Category I3

Short Idle State - WOL Enabled	21.6 W	21.3 W	22.8 W	Use for ENERGY STAR V6 registration (P_{idle})	<input type="checkbox"/>
Long Idle State - WOL Enabled	20.3 W	20.0 W	20.7 W	Use for ENERGY STAR V6 registration (P_{idle})	<input type="checkbox"/>
Sleep (S3) - WOL Enabled	2.7 W	2.7 W	2.7 W	Use for ENERGY STAR V6 registration (P_{sleep})	<input type="checkbox"/>
Sleep (S3) - WOL Disabled	W	W	W	Reference	<input type="checkbox"/>
Off (S5) - WOL Enabled	0.9 W	0.9 W	0.9 W	Use for ENERGY STAR V6 registration (P_{off})	<input type="checkbox"/>
Off (S5) - WOL Disabled	W	W	W	Use for EuP	<input type="checkbox"/>

Category D1

Short Idle State - WOL Enabled	27.5 W	27.9 W	28.2 W	Use for ENERGY STAR V6 registration (P_{idle})	<input type="checkbox"/>
Long Idle State - WOL Enabled	26.2 W	26.1 W	27.9 W	Use for ENERGY STAR V6 registration (P_{idle})	<input type="checkbox"/>
Sleep (S3) - WOL Enabled	2.6 W	2.5 W	2.5 W	Use for ENERGY STAR V6 registration (P_{sleep})	<input type="checkbox"/>
Sleep (S3) - WOL Disabled	W	W	W	Reference	<input type="checkbox"/>
Off (S5) - WOL Enabled	0.9 W	0.9 W	0.9 W	Use for ENERGY STAR V6 registration (P_{off})	<input type="checkbox"/>
Off (S5) - WOL Disabled	W	W	W	Use for EuP	<input type="checkbox"/>
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W		<input type="checkbox"/>
PTEC * Typical Energy Consumption	W	W	W		<input checked="" type="checkbox"/>
TEC * Typical Energy Consumption	kWh/week	kWh/week	kWh/week		<input checked="" type="checkbox"/>
E _{TEC} * Annual Energy Consumption	123.5 kWh/year	124.5 kWh/year	127.8 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.45 + P_{sleep} \times 0.05 + P_{long_idle} \times 0.15 + P_{short_idle} \times 0.35)$ P_{off} : Off Mode(S5) - WOL Enabled; P_{sleep} : Sleep Mode(S3) - WOL Enabled; P_{idle} : Idle State - WOL Enabled	<input type="checkbox"/>

Display resolution* : Megapixels

Print Speed* : Images per minute

Default time to enter energy save mode: 25 minutes

P9.2* Information about the energy save function is provided with the product.

P9.3* The product meets the energy requirements of the following voluntary program/s:
ENERGY STAR® version: **Version 6.1** Tier: Product category:
Others specify:

P10 Emissions

Noise emission – Declared according to ISO 9296
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P10.1	Mode	Mode description	Declared A-weighted sound power level $L_{WA,d}$ (B)	Declared A-weighted sound pressure level L_{pAm} (dB)		
				Operator position <input checked="" type="checkbox"/> Desktop <input checked="" type="checkbox"/> or Desk side <input type="checkbox"/>	Bystander positions <input type="checkbox"/> (only if product is not operator attended)	
	Idle	* HDD: Idle	* 3.4	20		<input type="checkbox"/>
	Operation	* HDD: Operating	* 3.5	21		<input type="checkbox"/>
	Other mode					
Measured according to: <input checked="" type="checkbox"/> ISO7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74 with L_{pAm} measurement distance m)						

P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:

Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2.3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials)	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

Lenovo ErP Lot3 Information Sheet


- PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	<i>ThinkCentre M800</i>	
Model Number	<i>10FV, 10FW</i>	
Issue Date	<i>2015/11/13</i>	
Additional information		

P7.1.1 Product environmental attributes	
(d)	year of manufacture: <i>please refer to the product name plate</i>
(e)	<p>E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display:</p> <p>Category (according to ErP Lot 3): <i>na</i> Etec: <i>na</i></p>
(f)	<p>E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enabled:</p> <p>Category (according to ErP Lot 3): <i>D</i> Etec: <i>103.74</i></p>
(g)	idle state power demand (Watts); <i>28.45</i>
(h)	sleep mode power demand (Watts); <i>2.48</i>
(i)	sleep mode with WOL enabled power demand (Watts) (where enabled); <i>2.5</i>
(j)	off mode power demand (Watts); <i>0.76</i>
(k)	off mode with WOL enabled power demand (Watts) (where enabled); <i>0.76</i>
(l)	<p>internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):</p> <p>10% 79.1% 20% 85.21% 50% 87.53% 100% 83.46% Average 85.4%</p>
(m)	<p>external power supply efficiency (if applicable):</p> <p>10% 20% 50% 100% Average ;</p> <p>or level: NA</p>
(o)	the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):
(p-1)	the measurement methodology used to determine information mentioned in points (l) – internal PSU efficiency: <i>80 PLUS® Program</i>
(p-2)	the measurement methodology used to determine information mentioned in points (m) – external PSU efficiency: <i>NA</i>
(p-3)	the measurement methodology used to determine information mentioned in points (o) – loadingcycles batteries: <i>NA</i>
(p-4)	the measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration:

IEC 62623 / IEC EN50564:2011 measurement methodology

- (q) sequence of steps for achieving a stable condition with respect to power demand::

Power on -> Wait 5 minutes ->Stable condition
- (r) description of how sleep and/or off mode was selected or programmed:

Begin menu -> Power -> Select sleep or off mode
- (s) sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:

Control Panel->Power Options-> Change Settings-> Restore default settings for this plan
- (t) the **duration of idle state condition before the computer automatically reaches sleep mode**, or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes): **25**
- (u) the **length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power** demand requirement than sleep mode (in minutes): **25**
- (v) the **length of time before the display sleep mode is set to activate** after user inactivity (in minutes): **10**
- (w) information on the energy-saving potential of power management functionality:

NA
- (x) user information on how to enable the power management functionality:

refer to user guide

(z) test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing:

Instrument Type	Range Used Or ***	Make and Model **
AC Power Source	1~280VAC;1~550HZ;1000V A.	NF;EC1000S; SN:9152124
Digital Watch	Full range	CASIO; HS-70W; SN:208Q08R
Power Meter	0~600V;0~20A	YOKOGAWA;WT210;SN:91M944560
Hygrothermograph	15~35°C/15~90%	testo; 608-H1,SN:1034895602
Thermal anemometer	0~20m/s,-20~70°C	Testo;425;SN:02591883
Light Measuring	1° ;1-300cd/ m ²	Konica Minolta;LS-110;

Addition Notebook Battery Information:

Yes (Battery not user replaceable)	No (Battery user replaceable)	n/a	This notebook computer is operated by battery/ies that cannot be accessed and replaced by a non-professional user. The battery[ies] in this product cannot be easily replaced by users themselves
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	