



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 *	ThinkCentre	
Company name *	Lenovo	
Contact information *	Alvin L Carter 1009 Think Place Building 2 / 5J3 Morrisville, North Carolina 27560 alcarter@lenovo.com	
Internet site *	www.pc.ibm.com/www/lenovo/about/environment	
Additional information		

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 *	Personal Computer
Commercial name *	ThinkCentre M90/M90p
Model number *	SFF: 5485, 5536, 5567, 5864, 5391, 5472, 5548, 6213, 3026, 3039, 3137, 3149, 3245, 3269, 3319, 3394, 3491, 3627
Issue date *	2010, January 05
Intended market *	☒ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other
Additional information	ENERGY STAR® 5.0 Qualified; EPEAT Gold Rating, GREENGUARD Certification

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

Quality Control		Requirement met	
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	☒	☐
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).	☒	☐

Model number *	ThinkCentre M90/M90p SFF: 5485, 5536, 5567, 5864, 5391, 5472, 5548, 6213, 3026, 3039, 3137, 3149, 3245, 3269, 3319, 3394, 3491, 3627
Issue date *	2010, January 05
Logo	

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)	☒	☐	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	☒	☐	
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.	☒	☐	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	☒	☐	
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).	☒	☐	
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.	☐	☐	☒
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)	☐	☐	☒
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.	☐	☐	☒
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.	☒	☐	☐
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/environment.html	☒	☐	☐
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)	☒	☐	☐
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)	☒	☐	☐
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)	☒	☐	☐
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).	☒	☐	☐
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	☒	☐	☐
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).	☒	☐	☐
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	☒	☐	☐
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).	☐	☐	☒
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	☐	☐	☒
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).	☐	☐	☒
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.	☒	☐	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	☒	☐	☐
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.	☒	☐	☐

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

Model number *	ThinkCentre M90/M90p SFF: 5485, 5536, 5567, 5864, 5391, 5472, 5548, 6213, 3026, 3039, 3137, 3149, 3245, 3269, 3319, 3394, 3491, 3627
Issue date *	2010, January 05
Logo	lenovo

Product environmental attributes - Market requirements - Environmental conscious design			Requirement met		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.	
P6	Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	☒	☐	☐	
P7	Design				
	Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	☒	☐	☐	
P7.2*	Plastic materials in covers/housing have no surface coating.	☐	☒	☐	
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	☒	☐	☐	
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	☒	☐	☐	
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	☒	☐	☐	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	☒	☐	☐	
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	☒	☐	☐	
P7.8*	Upgrading can be done using commonly available tools	☒	☐	☐	
P7.9.	Spare parts are available after end of production for: 5 years			☐	
P7.10	Service is available after end of production for: 5 years			☐	
	Material and substance requirements				
P7.11*	Product cover/housing material type: Material type: ABS Material type: Material type:				
P7.12	Electrical cable insulation materials of power cables are PVC free.	☐	☒	☐	
P7.13	Electrical cable insulation materials of signal cables are PVC free	☐	☒	☐	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	☒	☐	☐	
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)	☐	☒	☐	
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking:	☐	☐	☒	
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) ☐ , TBBPA (reactive) ☒ , Other; chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: Brominated Epoxy Resin See P14	☐	☐	☐	
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: Comment: No legal limits exist, this is a market requirement. Provide a list of all used flame retardants including MSDS for each flame retardant. The list must contain complete chemical name, CAS number and supplier. 1. Chemical name: , CAS #: , Supplier: 2. Chemical name: , CAS #: , Supplier: 3. Chemical name: , CAS #: , Supplier: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:	☐	☐	☐	
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	☒	☐	☐	
P7.20	Of total plastic parts' weight >25g, recycled material content is +25% .				
P7.21	Of total plastic parts' weight >25g, biobased material content is 0% .				
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg	☐	☐	☒	
P8	Batteries				
P8.1*	Battery chemical composition: Lithium Manganese Dioxide			☐	
P8.2	Batteries meet the requirements of the following voluntary program/s:			☒	

Note B2: IEC61249-2-21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

Model number *	ThinkCentre M90/M90p SFF: 5485, 5536, 5567, 5864, 5391, 5472, 5548, 6213, 3026, 3039, 3137, 3149, 3245, 3269, 3319, 3394, 3491, 3627		
Issue date *	2010, January 05	Logo	lenovo

Product environmental attributes - Market requirements (continued)					Requirement met	
Item					Yes	No n.a.
P9 Energy consumption						
9.1 For the product the following power levels or energy consumptions are reported:						
Energy mode * Category D (see P14)	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)	192.5 W	181.3 W	147.8 W	Full load		
Idle State	52.9 W	53.0 W	53.3 W	Idle State for ES		
Sleep(S3) - WOL Enable	2.25 W	2.3 W	2.73 W	Sleep Mode w/ WOL Enabled for ES		
Off(S4/S5) - WOL Enable	0.59 W	0.66 W	1.05 W	Off Mode w/ WOL Enabled for ES		
	W	W	W			
	W	W	W			
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W			
P _{TEC} Typical Energy Consumption	W	W	W	(Workstation Levels) $P_{TEC} = 0.35 \cdot P_{off} + 0.10 \cdot P_{sleep} + 0.55 \cdot P_{idle}$		
TEC Typical Energy Consumption	kWh/week	kWh/week	kWh/week			
E _{TEC} * Annual Energy Consumption	189.19 kWh/year	190.04 kWh/year	192.84 kWh/year	(Desktop, Integrated Desktop, and Notebook Levels) $E_{TEC} = (8760/1000) \cdot (P_{off} \cdot T_{off} + P_{sleep} \cdot T_{sleep} + P_{idle} \cdot T_{idle})$		
Display resolution :	Megapixels					
Print Speed :	Images per minute					
Default time to enter energy save mode: 10 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 5.0 dated July 1, 2009 Product category: Others specify:				☒	☐
P10 Emissions						
Noise emission – Declared according to ISO 9296						
P10.1	Mode	Mode description	Declared A-weighted sound power level L_{wAd} (B)	Declared A-weighted sound pressure level L_{pAm} (dB)	P1 0.1	
				Operator position ☒ Desktop ☒ or Desk side ☐		
	Idle	* HDD: Idle	* 3.3	23		
	Operation	* HDD: Operating	* 3.5	25		
	Other mode					
	Measured according to: ☒ ISO7779 ☐ ECMA-74 ☐ 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:				☐	☐

Model number *	ThinkCentre M90/M90p SFF: 5485, 5536, 5567, 5864, 5391, 5472, 5548, 6213, 3026, 3039, 3137, 3149, 3245, 3269, 3319, 3394, 3491, 3627		
Issue date *	2010, January 05	Logo	lenovo

Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
Chemical emissions from printing products				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard ☐ , other specify:	☐	☐	☒
P10.4	Typical emission rate (print phase) is (mg/h): Dust Ozone Styrene Benzene TVOC			☒
P10.5	Chemical emission requirements of the following voluntary program/s are met for : Dust ☐ Ozone ☐ Styrene ☐ Benzene ☐ TVOC ☐	☐	☐	☒
Electromagnetic emissions				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:	☐	☐	☒
P11 Consumable materials for printing products				
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	☐	☐	☒
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	☐	☐	☒
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	☐	☐	☒
P12 Ergonomics for computing products				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	☒	☐	☐
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	☒	☐	☐
P13 Packaging and documentation				
P13.1*	Product packaging material type(s): <i>EPE</i> weight (kg): <i>0.12</i> Product packaging material type(s): <i>Corrugated</i> weight (kg): <i>1.2</i> Product packaging material type(s): weight (kg):			
P13.2*	Product plastic packaging is free from PVC.	☒	☐	☐
P13.3*	Specify media for user and product documentation (tick box): Electronic ☒ , Paper ☒ , Other ☐			☐
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: <i>0%(Japan only 70%)</i>			☐
P14 Additional information (See Note B4)				
NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.				
P7.17	<i>Product does not contain free TBBPA in printed circuit boards(without components)>25g.</i>			
P9	See Energy Star Qualified Computers for the latest information: http://www.energystar.gov/index.cfm?fuseaction=find_a_product.ShowProductGroup&pgw_code=CO Category D desktops will have: Greater than or equal to 4 Physical Cores. Models qualifying under Category D are also configured with a minimum of 1 of the following 2 characteristics: * Greater than or equal to 4 gigabytes (GB) of System Memory; and/or * A Discrete GPU with a Frame Buffer Width greater than 128-bit.			

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