

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

	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 M90z					
Model number *	3265, 0800,3091, 3373, 3429, 3650, 3678, 4285, 5205, 5248, 2471, 0852, 2557, 0870					
Issue date *	2010-05-12					
Intended market *	🛛 Global 🗌 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other					
Additional information	ENERGY STAR® 5.0 Qualified; EPEAT GOLD Rating; GREENGUARD Certified					

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Quality	Requireme	nt met	
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	\boxtimes	
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality contro such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	ThinkCentre M90z	1205 E	205 5249
	MTs: 3265, 0800,3091, 3373, 3429, 3650, 3678, 4 2471, 0852, 2557, 0870	-280, 0	205, 5248,
Issue date *	2010-05-12	Logo	lenovo

Product	environmental attributes - Legal requirements	Require	ment	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), hydrochlorofluorcarbons (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).	\boxtimes		
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).	\square		
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.	,		\boxtimes
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)			\boxtimes
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.			\boxtimes
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/materials.html	\boxtimes		
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)	\square		
P2.3*				
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).	\square		
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	\square		
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).	s 🔀		
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	\square		
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).			\boxtimes
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			\square
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 ar hexavalent chromium by weight of these together.	nd 🔀		
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\square		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montre Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	al 🔀		

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

Model number *	ThinkCentre M90z		
	MTs: 3265, 0800,3091, 3373, 3429, 3650, 3678, 4	285, 5	205, 5248,
	2471, 0852, 2557, 0870		
Issue date *	2010-05-12	Logo	lenovo

Product	Product environmental attributes - Market requirements - Environmental conscious design				
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	quire Yes	No	n.a.	
P6	Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes			
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.		H	H	
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		H	H	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ	Ħ	
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\square			
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:				
D7.40	Material type: Steel Material type: ABS Material type: PC/ABS				
P7.12	Electrical cable insulation materials of power cables are PVC free.	Ц_		<u> </u>	
P7.13	Electrical cable insulation materials of signal cables are PVC free			<u>Ц</u>	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.			<u> </u>	
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See		\boxtimes		
P7.16	Note B2) Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:	\square			
	Marking: ISO FR(nn)				
P7.17	Alt. 1 Chamical appairiestions of flows raterdants is printed size it beards - 25g (without components):				
	Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive), TBBPA (reactive), Other; chemical name: , CAS #:	\bowtie			
	TDDFA(additive) [], TDDFA(leactive) [], Other, Other, Otherhold(name), OAS #.				
	Alt. 2				
	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according				
D7.40	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.				
	1. Chemical name: , CAS #:				
	2. Chemical name: , CAS #:				
	3. Chemical name: , CAS #: 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)	\bowtie			
P7.20	Of total plastic parts' weight >25g, recycled material content is 43 %.				
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sources are free from mercury		\boxtimes		
Do	If mercury is used specify: Number of lamps: 2 and max. mercury content per lamp: 2.6 mg				
P8.1*	Batteries Battery chemical composition: Lithium Manganese Dioxide				
P8.2	Batteries meet the requirements of the following voluntary program/s:				
10.2	Dattones most 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.

	ThinkCentre M90z MTs: 3265, 0800,3091, 3373, 3429, 3650, 3678, 4	1285, :	5205, 5248, 2471,
	0852, 2557, 0870		
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	duct environmental attributes - Market requirements (continued) Requirement m							
Item	_					Yes No	n.a.	
P9								
9.1 For the product the following power levels or energy consumptions are reported: See P14								
Energy mo	ode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC		eference / Standard for energy modes and test ethod *		
Category A								
Idle State	- WOL Enabled	25.8 W	25.9 W	26.8 W	Us	se for ENERGY STAR V5 registration (P _{idle})		
Sleep (S3)) - WOL Enabled	W	W	W	Us	se for ENERGY STAR registration(P _{sleep})		
Sleep (S3)) - WOL Disabled	1.6 W	1.6 W	1.78 W	Re	eference		
Off (S5) -	WOL Enabled	0.63 W	0.72 W	0.90 W	Us	se for ENERGY STAR V5 registration(Poff)		
Off (S5) -	WOL Disabled	W	W	W	Us	se for EuP		
Peak (On-	·max)	77.20 W	77.30 W	79.20 W	F	Full load		
Category	В	ł	•	•				
Idle State	- WOL Enabled	27.1 W	27.1 W	28.6 W	Us	se for ENERGY STAR V5 registration (Pidle)		
Sleep (S3)) - WOL Enabled	W	W	W	Us	se for ENERGY STAR registration(P _{sleep})		
Sleep (S3)) - WOL Disabled	1.75 W	1.76 W	1.87 W	Re	eference		
Off (S5) -	WOL Enabled	0.72 W	0.73 W	0.92 W	Us	se for ENERGY STAR V5 registration(Poff)		
Off (S5) -	WOL Disabled	W	W	W	Us	se for EuP		
Peak (On-	·max)	82.00 W	82.00 W	83.40 W	F	Full load		
EPS No-lo		W	W	W			\boxtimes	
	oower supply / ugged in the wall							
outlet but o	disconnected from							
the produc	it.)							
PTEC * Typical En	ergy Consumption	W	W	W			\square	
TEC *		kWh/week						
Typical En	ergy Consumption		kWh/week	kWh/week				
ETEC *	argu Canaumatian	CatA: 94.14;	CatA: 94.92;	CatA: 99.02;		r _{EC} = (8760/1000) x (Poff x 0.55 + Psleep x		
Annual En	ergy Consumption	CatB: 99.19 kWh/year	CatB: 99.25 kWh/year	CatB: 105.47 kWh/year	0.0	05 + Pidle x 0.4)		
		Poff: Off Mode(S5) -	WOL Enabled; P _{slee}	p: Sleep Mode(S3)) - WC	OL Enabled; P _{idle} : Idle State - WOL Enabled		
Display res	solution* : N	legapixels						
Print Spee	d* : I	mages per minute					\square	
Default tim	e to enter energy s	ave mode: 25 minutes	8					
P9.2*		the energy save func	•					
P9.3*		ts the energy requirem						
	Others specify:	version: Version 5.0	dated July 1, 20	09 Her:	Proc	duct category:	H	
P10	Emissions							
Dia i		- Declared according	to ISO 9296					
P10.1	Mode	Mode description		Declared A-weighted		Declared A-weighted sound pressure level L_{pAm} (dB)		
				sound powe				
				level L_{WAd}	(B)	Operator position Bystander positions		
						or Desk side (only if product is not		
	Idla	* HDD:Idle		* 2 2		operator attended)		
	Idle Operation	* HDD: Operating		* 3.3	-+	24 24	+	
	Other mode	nee. operating		0.0	-+	£7		
		ing to: 🔀 ISO7779 🗌	ECMA-74	1		1	1	
		Other		ered by ECMA-74	4 witł	h L _{pAm} measurement distance m)		
P10.2	The product meet	ts the acoustic noise r						

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Issue date *	2010-05-12	Logo	lenovo	

Product	environmental attributes - Market requirements (continued)	equire	ment	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:			\boxtimes
P10.4	Typical emission rate (print phase) is (mg/h):			\times
	Dust Ozone Styrene Benzene TVOC			
P10.5	Chemical emission requirements of the following voluntary program/sare met for :			\boxtimes
	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).			\boxtimes
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.			\square
P11.3*	2-sided (duplex) printing/copying is an integrated product function.			\times
P12	Ergonomics for computing products			
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	\boxtimes		
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	\boxtimes		
P13	Packaging and documentation			
P13.1*	Product packaging material type(s): Corrugated cardboard weight (kg): 1.34			
	Product packaging material type(s): FPE weight (kg): 0.46			
P13.2*	Product packaging material type(s): weight (kg): Product plastic packaging is free from PVC.	\square		
P13.3*	Specify media for user and product documentation (tick box):			
P13.3	Electronic X, Paper X, Other			
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled			
1 10.4	fiber: 0%			
P14	Additional information (See Note B4)			
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied,	regardir	ig the	
	information contained in this document. All information provided by supplier in this document is provided based			
	knowledge available at the time of completion, and supplier shall have no obligation to update such information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representational purposes only.			lion
	information.		nore	
P9	See Energy Star Qualified Notebooks & Tablet Computers for the latest information:			
	http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO			

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

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