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## 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 *	<a href="#">Lenovo</a>	
Company name *	<a href="#">Lenovo</a>	
Contact information *	<a href="#">Lenovo Global Environmental Affairs</a> <a href="#">Alvin L. Carter</a> <a href="#">1009 Think Place</a> <a href="#">Building 2 / 5J3</a> <a href="#">Morrisville, North Carolina 27560</a> <a href="mailto:alcarter@lenovo.com">alcarter@lenovo.com</a>	
Internet site *	<a href="http://www.lenovo.com/social_responsibility/us/en/environment.html">http://www.lenovo.com/social_responsibility/us/en/environment.html</a>	
Additional information	<a href="#">The latest version of this document can be found at</a> <a href="http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html">http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html</a>	

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 *	<a href="#">Workstation</a>
Commercial name *	<a href="#">ThinkStation E32 SFF;</a>
Model number *	<a href="#">SFF:30A2, 30A3</a>
Issue date *	<a href="#">2013.07.31</a>
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	<a href="#">ENERGY STAR® Qualified; EPEAT Gold Rating, GREENGUARD Certification</a>

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	<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 <a href="http://www.itecodeclaration.org">www.itecodeclaration.org</a> ).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Model number *	<b>ThinkStation E32 SFF</b>	<b>MT:30A2, 30A3</b>	Logo	<b>lenovo</b>
Issue date *	2013.07.31			

Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
<b>P1 Hazardous substances and preparations</b>				
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 <sup>2</sup> /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): <a href="http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.html#environment">http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.html#environment</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P2 Batteries</b>				
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"/>
<b>P3 Safety, EMC connection to the telephone network and labeling</b>				
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"/>
<b>P4 Consumable materials</b>				
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"/>
<b>P5 Product packaging</b>				
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 *	<b>ThinkStation E32 SFF MT:30A2, 30A3</b>		Logo	<b>lenovo</b>
Issue date *	2013.07.31			

**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: [See P14](#)  
The product is shipped w/ WOL Enabled.

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 *	<input type="checkbox"/>
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**Category D**

Idle State - WOL Enabled	33.96W	33.94W	33.40W	Use for Energy Star V5 registration( $P_{idle}$ )	<input type="checkbox"/>
Sleep (S3) - WOL Enabled	0.83W	0.85W	1.05W	Use for Energy Star V5 registration( $P_{sleep}$ )	<input type="checkbox"/>
Off (S5) - WOL Enabled	0.57W	0.59 W	0.78W	Use for Energy Star V5 registration( $P_{off}$ )	<input type="checkbox"/>
Peak (On-max)	139.09W	136.86w	135.77w	Full load	<input type="checkbox"/>

**Category C**

Idle State - WOL Enabled	35.00 w	34.78 w	33.68 w	Use for Energy Star V5 registration( $P_{idle}$ )	<input type="checkbox"/>
Sleep (S3) - WOL Enabled	0.84 w	0.86 w	1.11 w	Use for Energy Star V5 registration( $P_{sleep}$ )	<input type="checkbox"/>
Off (S5) - WOL Enabled	0.57 w	0.58 w	0.78 w	Use for Energy Star V5 registration( $P_{off}$ )	<input type="checkbox"/>
Peak (On-max)	139.55 w	139.86 w	134.76 w	Full load	<input type="checkbox"/>

**Category B**

Idle State - WOL Enabled	N/A	N/A	N/A	Use for Energy Star V5 registration( $P_{idle}$ )	<input type="checkbox"/>
Sleep (S3) - WOL Enabled	N/A	N/A	N/A	Use for Energy Star V5 registration( $P_{sleep}$ )	<input type="checkbox"/>
Off (S5) - WOL Enabled	N/A	N/A	N/A	Use for Energy Star V5 registration( $P_{off}$ )	<input type="checkbox"/>
Peak (On-max)	N/A	N/A	N/A	Full load	<input type="checkbox"/>

EPS No-load (External power supply / charger plugged in the wall)	W	W	W		<input type="checkbox"/>
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TEC Typical Energy Consumption	kWh/week	kWh/week	kWh/week		<input checked="" type="checkbox"/>
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ETEC * Annual Energy Consumption	Cat D: 122.11; Cat C:125.75 ; Cat B: N/A;  Cat A: N/A; kWh/year	Cat D:122.14; Cat C: 125.04; Cat B: N/A;  Cat A: N/A; kWh/year	Cat D: 121.25; Cat C: 122.26 ; Cat B: N/A;  Cat A: N/A kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{sleep} \times 0.1 + P_{idle} \times 0.3)$	<input type="checkbox"/>
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$P_{off}$ : Off Mode(S5) - WOL Enabled;  $P_{sleep}$ : Sleep Mode(S3) - WOL Enabled;  $P_{idle}$ : Idle State - WOL Enabled

Display resolution :	Megapixels		<input type="checkbox"/>
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Print Speed :	Images per minute		<input checked="" type="checkbox"/>
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Default time to enter energy save mode:	30 minutes		<input type="checkbox"/>
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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 5.2** Product category: **A,B,C,D**  
Others specify:

**P10 Emissions**

**Noise emission – Declared according to ISO 9296**

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 or Desk side <input type="checkbox"/>	Bystander positions <input type="checkbox"/> (only if product is not operator attended)	
	Idle	* HDD: Idle	* 3.9	29.8		<input type="checkbox"/>
	Operation	* HDD: Operating	* 4.0	29.8		<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:

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Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
<b>Chemical emissions from printing products</b>				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard <input type="checkbox"/> , other specify:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P10.4	Typical emission rate (print phase) is (mg/h): Dust                  Ozone                  Styrene                  Benzene                  TVOC			<input checked="" type="checkbox"/>
P10.5	Chemical emission requirements of the following voluntary program/s are met for : Dust <input type="checkbox"/> Ozone <input type="checkbox"/> Styrene <input type="checkbox"/> Benzene <input type="checkbox"/> TVOC <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Electromagnetic emissions</b>				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P11 Consumable materials for printing products</b>				
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P12 Ergonomics for computing products</b>				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P13 Packaging and documentation</b>				
P13.1*	Product packaging material type(s): <b>Corrugated paper</b> weight (kg): <b>0.988 (85% recycled)</b> Product packaging material type(s): <b>Laminated EPE</b> weight (kg): <b>0.206(20% recycled)</b> Product packaging material type(s): <b>HDPE</b> weight (kg): <b>0.016(30% recycled)</b>			
P13.2*	Product plastic packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> , Paper <input checked="" type="checkbox"/> , Other <input type="checkbox"/>			<input type="checkbox"/>
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: <b>0% (Japan only 70%)</b>			<input type="checkbox"/>
<b>P14 Additional information (See Note B4)</b>				
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P7.17	<b>Product does not contain free TBBPA in printed circuit boards(without components)&gt;25g.</b>			
P9	<b>See Energy Star Qualified (insert appropriate Product type; i.e. Desktop, Notebook, etc.) for the latest information: <a href="http://downloads.energystar.gov/bi/qplist/laptops_prod_list.xls">http://downloads.energystar.gov/bi/qplist/laptops_prod_list.xls</a> (insert appropriate web url)</b>			

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