

ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

Annex B2 - Product environmental attributes Workstations and Servers

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Logo	•		
Company name *	Lenovo				
Contact information *	Lenovo Global Environmental Affairs				
e-mail address	Alvin L Carter		Lenovo		
	alcarter@lenovo.com				
Internet site *	http://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/ecodeclaration				

The company declares (based on product specification or test results based obtained from sample testing), that the product					
conforms to the statement	nts given in this declaration.				
Type of product *	Workstation				
Commercial name *	ThinkStation P320 Tower				
Model number *	30BG,30BH,30BR				
Issue date *	2017/3/6				
Intended market *	🔀 Global 📃 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other				
Additional information	ENERGY STAR® Qualified; EPEAT Gold Rating, GREENGUARD certified				

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About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products.

Product environmental attributes - Legal requirements Require Item Yes P1.1 Products do comply with current European ROHS Directive. (See legal reference and NOTE B1) Xet P1.2 Products do ont contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. Xet P1.3 Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. Xet P1.4 Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorarbons (HCFC), Halons, carbontetrachloride, 1, 1, 1- trichloroethane, methy loromide (see legal reference). Xet P1.4 Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference). Xet 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). Xet Comment: Max limit in legal reference when tested according to EN1811:2011-5. P1.7 REACH Article 31 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibilit/us/en/environment.html Xet P2.1 If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal			
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P6.1* Information for recyclers/treatment facilities is available (see legal reference).			

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model nu	ımber *	30BG,30BH,30BR	Logo				
Issue dat	te *	2017/3/6		Len		Оти	
Product	environ	mental attributes - Market requirements (See General NOTE GN	below)				
		onmental conscious design		Require		met	
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.	
P7.1*		Disassembly, recycling at have to be treated separately are easily separable		\square			
P7.2*		naterials in covers/housing have no surface coating.			╞	<u> </u>	
P7.3*		arts > 100 g consist of one material or of easily separable materials.			╞	╞	
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.						
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly	available tools		╞	⊢⊢	
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).			⊢⊢	⊢⊢	
- 7.0	Product						
P7.7*		ng can be done e.g. with processor, memory, cards or drives					
P7.8*		ng can be done using commonly available tools			H	H	
P7.9		arts are available after end of production for: 5 years				H	
P7.10		s available after end of production for: 5 years				Ħ	
-		and substance requirements					
P7.11*	Product	cover/housing material type (e.g. plastics, metal, aluminum):	rial type:				
P7.12		n materials of external electrical cables are PVC free.	iai typei		\boxtimes		
P7.13	Insulatio	n materials of internal electrical cables are PVC free.					
P7.14	weight (*	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) 1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flan chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm)	ne retardants, a	and			
		ng more than 25% post-consumer recycled content.	, emenne m pe				
P7.15		circuit boards, PCBs (without components) are low halogen: all 🗌 PCBs > as defined in IEC 61249-2-21. (See 1NOTE B2)	• 25 g 🗌 are	ow	\boxtimes		
P7.16	Marking:					\square	
P7.17	Alt. 1: Ch	nemical specifications of flame retardants in printed circuit boards > 25 g (without PA (additive), TBBPA (reactive) (See NOTE B3), Other: <i>Brominated Epoxy</i>	components): v Resin , CAS #:				
	according	nemical specifications of flame retardants in printed circuit boards (without compo g ISO 1043-4:		\square			
P7.18	concentr 1. Chemi	ame retarded plastic parts > 25 g contain the following flame retardant substant ations above 0,1%: ical name: , CAS #: (See NOTE B4) ical name: , CAS #: "	ces/preparations	s in			
		ical name: , CAS #: " nemical specifications of flame retardants in plastic parts > 25 g according ISO 10	43-4:				
P7.19		parts > 25 g, flame retardant substances/preparations above 0,1% are used which		— Ħ	Ħ		
	assigned	the following Risk phrases; and Hazard statements:					
P7.20*	The source(s) for these classifications is/are found at (add URL(s)): , (See note B5) Postconsumer recycled plastic material content is used in the product (See Note B6):		\square				
	lfYES;a a) Oft ape or	 at least one of the two alternatives below shall be answered; at least one of the two alternatives below shall be answered; at least one of the two alternatives below shall be answered; at least one of the two alternatives below shall be answered; be weight of recycled material is 264 g. 	nt (calculated a				

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model nun	nber *	30BG,30	BH,30BR			Logo		
Issue date	*	2017/3/6					Lenov	
Product e	environr	nental at	tributes - Market r	equirements (contir	nued)		Requirem	ent met
Item				• • • •	/		Yes No	
	Material	and subs	stance requirements	(continued)				
P7.21*	Biobase	d plastic m	aterial content is used	in the product (See No	OTE B7)			1
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp.							
P8	If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg Batteries							
P8.1*	Battery chemical composition: Lithium Manganese Dioxide							
P9	-		tion (See NOTE B8)					
P9.1				s or energy consumption	ons are reported:			
Energy mo			Power level at	Power level at	Power level at	Reference/Stand		у
Deals (Ora			100 V AC	115 V AC	230 V AC	modes and test r	nethod *	
Peak (On-i	max)		119.33 W	116.70 W	114.86 W	Full load		
Category	<u>y</u>							
Short Idle	State - W	OL	51.23 W	56.65 W	60.22 W	Use for ENERG	Y STAR V6	
Enabled						registration (P _{id}		
Long Idle	State - W	OL	50.31 W	50.09 W	53.31 W	Use for ENERG	Y STAR V6	
Enabled						registration (P _{id}		
Sleep (82)		nebled	1.64 W	1.59 W	1.61 W	Use for ENERG		
Sleep (S3)	- WOL E	паріец	7.04 VV	1.59 VV	7.07 VV	registration(P _{sle}		
Sleep (S3)	- WOL D	isabled	W	W	W	Reference		
Off (S5) - V	VOL Ena	bled	0.69 W	0.68 W	0.71 W	Use for ENERG		
						registration(P _{off} ,		
Off (S5) - V	NOL Disa	bled	W	W	W	Use for ErP		
			W	W	W	Reference		
			W	W	W	Reference		
EPS No-loa	ad		W	W	W			
(External power s	upply / charger	plugged in the						
wall outlet but disc PTEC *	connected from	the product.)	28.44 W	30.57 W	32.49 W			
Typical Ene	ergy Cons	umption	20.44 11	50.07 11	52.45 W			
ETEC * Annual Ene	ergy Cons	umption	kWh/year	kWh/year	kWh/year	$E_{TEC} = (8760/100)$ + $P_{sleep} \times 0.35$ + $P_{sleep} \times 0.35$		\boxtimes
			D		Marta (02) MOL Frank	P _{short_Idle} x 0.30)		-
External Dr				DL Enabled; P _{sleep} : Sleep I Efficiency Marking Pro		eu; r _{idle} : laie State -	NUL ENADIEO	
Display res			cy Level (Internationa egapixels	Enciency Marking Pro				
			0 1					
			ve mode: 25 minutes	on is provided with the	product			
P9.2* P9.3			the energy save functi class (monitors only):	on is provided with the	product.			
		,	ass (monitors only):					
P10	Emissio Noise e		Declared according to	ISO 9296 (See NOTE	B9)			
P10.1	Mode		lode description		Statistical upper lim	it A-weighted sound	power level, Lu	_{(A.c} (B)
	Idle		Idle		* 3.4		- , - ,	
	Operatio		Oper		* 3.4			
	Other m	ode 🛛	eclared A-weighted sour	d pressure level (dB) L _{pAm}	22 (operator position	on desktop – idle)		
	Other m	ode D	eclared A-weighted sour	d pressure level (dB) L _{pAm}		on desktop – operatir	ng)	
	Measure		ng to: 🔀 ISO 7779 🗌	ECMA-74				
	weasule		Other	only if not covered by	FCMA-74)			
	L			(

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model nu	mber *	30BG,30BH,30BF	2				Logo				
Issue dat	:e *	2017/3/6					Lenovo			м	
Product	environ	mental attributes	- Market requirer	nents (cor	tinued)			Req	uirer	nent	me
Item								Ň	Yes	No	n.a
		magnetic emission									
P10.4	, program	ı(s):	requirement for low	frequency e	ectromagnetic field	ds of the foll	owing volun	tary			
P12		mics for computing									
P12.1*	The disp	play meets the ergor	nomic requirements o	of ISO 9241-3	307 for visual displ	ay technolo	gies.				\geq
P12.2*	The phy	sical input device m	eets the requirement	s of ISO 999	5 and ISO 9241-4	10.				\boxtimes	
P13	Packag	ing and documenta	ation								
P13.1*	Product	packaging material packaging material packaging material	type(s): EPE	weight (kg weight (kg weight (kg): 0.389						
P13.2*	Product	plastic primary pack	aging is free from P\	/C.					\times		
P13.3*	For pro- consum	duct primary corrug er recovered fiber co	ated fiberboard pack ontent: 70 %	kaging, spec	cify the contained	percentage	of minimur				
P13.4*	Specify	media for user and	oroduct documentatio Other	on (tick box):							
P13.5	Úser an		tem if paper documer ation on paper media						\boxtimes		
	Totally of	hlorine-free									
	Elemen	al chlorine-free							\mathbf{X}		
	Process	ed chlorine-free									
P14	Volunta	ry programs									
P14.1	The pro	duct meets the requ	irements of the follow	ving voluntar	y program(s):						
	Eco-lab	Y STAR® el: Greenguard el: EPEAT	Criteria version: 6. Criteria version: Criteria version:	1	Date: Oct-2014 Date: Date:	Product of Product of Product of		orkstation			
P15	Additio	nal information (Se	e NOTE B10)								
P9			pecific configuration	n may vary;	description of the	e tested pro	oduct config	guration:			
	NOTE: informat knowled	Supplier makes no r ion contained in this ge available at the t I here is approximat	epresentations, guara document. All inform ime of completion, ar e and provided for in	antees, assunation provid	rances or warranti ed by supplier in th hall have no obliga	es whether his documer ation to upda	express or in nt is provided ate such info	mplied, reg d based on rmation. Tl	supp ne info	lier's ormat	ion
P9	See Ene	ergy Star Qualified N	lotebooks & Tablet C ndex.cfm?fuseaction=				code=CO				

NOTE B10 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 B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

Lenovo ErP Lot3 Information Sheet - Workstation/Server -

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:

Workstation, mobile workstation, desktop thin client, small-scale server and computer server

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

Commercial name	ThinkStation P320 Tower	Logo	
Model Number	30BG,30BH,30BR		
Issue Date	2017/3/6		Lenovo.
Additional information	ENERGY STAR® Qualified; EPEAT Gold Rating, GREENGUARD co	ertified	

P7.3.1 P	roduct environmental attrib	outes						
(d)	Year of manufacture:			Available on product label				
(e)	Internal/external power supply efficiency: PCE026-EL1G: 10% 79.10% 20% 85.21% 50% 87.53% 100% 83.46% Average 85.40% HK350-12PP: 10% 78.79% 20% 84.37% 50% 87.19% 100% 83.88% Average 85.15% FSP250-30AGBAA: 10% 80.10% 20% 85.25% 50% 86.76% 100% 83.27% Average 85.10% FSP400-40AGPAA: 10% 86.34% 20% 90.92% 50% 92.29% 100% 89.96% Average 91.06%							
(f)	Test voltage in V and frequenc Total harmonic distortion of the	ncy in Hz the electricity supply system tion on the instrumentation, set-up by in Hz 230V/50Hz e electricity supply system $\leq 2\%$	and circuits used for electrical testing:					
			d circuits used for electrical testing					
	Instrument Type	Range Used Or ***	Make and Model **					
	AC Power Source	1~280VAC;1~550HZ;1000VA.	NF;EC1000S; SN:9152124					
	Digital Watch	Full range	CASIO; HS-70W; SN:208Q08R					
	Power Meter	0~600V;0~20A	YOKOGAWA;WT210;SN:91M944 560					
	Hygrothermograph	15~35℃/15~90%	testo; 608-H1,SN:1034895602					
	Thermal anemometer	0~20m/s,-20~70 ℃	Testo;425;SN:02591883					
	Light Measuring	1°;1-300cd/m ²	Konica Minolta;LS-110;					
		•						
(g)	Maximum power (Watts)			149.24				
(h)	Idle state power (Watts)			55.69				
(i)	Sleep mode power (Watts)			1.62				
(j)	Off mode power (Watts)			0.73				
(I-1)	Measurement methodology used to determine information mentioned in points (e): 80 PLUS test method							
(I-2)	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							
Additiona	al information							