

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 *	Idea	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/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 *	Desktop						
Commercial name *	ideacentre 510S-08ISH						
Model number *	90FN						
Issue date *	2016-5-16						
Intended market *	☑ Global Europe Asia, Pacific & Japan Americas Other						
Additional information	ENERGY STAR® Qualified; GREENGUARD Certified						

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

Quality (Quality Control						
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 control such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀					

Model number *	90FN		
Issue date *	2016-5-16	Logo	Lenovo.

Product	roduct environmental attributes - Legal requirements							
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),	\boxtimes	П					
	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).	\boxtimes						
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)			\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.							
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm²/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)	\boxtimes						
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).	\boxtimes						
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).		Ħ	一一				
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).	X	П	\Box				
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).		П					
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).	\boxtimes						
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 %.

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tem *-mandatory to fill in. Additional information regarding each item may be found under P14. Yes No n.a. P6 Textement information
P6.1 Information for recyclers/treatment facilities is available (see legal reference).
P7 Design Disassembly, recycling Disassembly, part Disassembly, recycling Disassembly, part D
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 >25g have material codes according to ISO 11469 referring ISO 1043. P7.6* Labels are fee 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). P7.7* Upgrading can be done e.g. with processor, memory, cards or drives P7.8* Upgrading can be done e.g. with processor, memory, cards or drives 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 P7.11* Product cover/housing material type: Material type: ABS
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2. Chemical name: , CAS #:
0.01
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)
P7.20 Of total plastic parts' weight >25g, recycled material content is 0% .
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 *	90FN		
Issue date *	2016-5-16	Logo	Lenovo.

Product environmental attributes - Market requirements (continued) Requirement me Yes No n.										
P9 Energy consumption	on			r es ino	n.a					
9.1 For the product the f		els or energy cons	umptions are re	ported: 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						
Category I1										
Short Idle State - WOL Enabled	1 17.23 W	17.32 W	17.16 W	Use for ENERGY STAR V6 registration (P _{idle})						
Long Idle State - WOL Enabled	1 16.30 W	16.29 W	16.05 W	Use for ENERGY STAR V6 registration (P _{idle})						
Sleep (S3) - WOL Enabled	1.14 W	1.13 W	1.15 W	Use for ENERGY STAR V6 registration(P _{sleep})						
Sleep (S3) - WOL Disabled	W	W	W	Reference						
Off (S5) - WOL Enabled	0.49 W	0.50 W	0.53 W	Use for ENERGY STAR V6 registration(Poff)						
Off (S5) - WOL Disabled	W	W	W	Use for EuP						
Category I2			<u> </u>	L	<u> </u>					
Short Idle State - WOL Enabled	1 17.55 W	17.35 W	17.14 W	Use for ENERGY STAR V6 registration (P _{idle})						
Long Idle State - WOL Enabled	1 16.46 W	16.33 W	15.95 W	Use for ENERGY STAR V6 registration (P _{idle})	Ħ					
Sleep (S3) - WOL Enabled	1.15 W	1.15 W	1.16 W	Use for ENERGY STAR V6 registration(P _{sleep})	Ħ					
Sleep (S3) - WOL Disabled	W	W	W	Reference	Ħ					
Off (S5) - WOL Enabled	0.50 W	0.50 W	0.53 W	Use for ENERGY STAR V6 registration(P _{off})	Ī					
Off (S5) - WOL Disabled	W	W	W	Use for EuP	Ħ					
Category I3										
Short Idle State - WOL Enabled	1 18.52 W	18.29 W	18.45 W	Use for ENERGY STAR V6 registration(P _{idle}						
Long Idle State - WOL Enabled	1 17.53 W	17.62 W	17.42 W	Use for ENERGY STAR V6 registration(P _{idle})						
Sleep (S3) - WOL Enabled	1.17 W	1.16 W	1.18 W	Use for ENERGY STAR V6 registration (P _{sleep})	ĪĪ					
Sleep (S3) - WOL Disabled	W	W	W	Reference	Ħ					
Off (S5) - WOL Enabled	0.50 W	0.49 W	0.53 W	Use for ENERGY STAR V6 registration(P _{off})	Ī					
Off (S5) - WOL Disabled	W	W	W	Use for EuP	Ī					
Category D1				<u> </u>	_					
Short Idle State - WOL Enabled	1 22.66 W	22.52 W	22.07 W	Use for ENERGY STAR V6 registration(Pidle)	П					
Long Idle State - WOL Enabled	21.89 W	21.66 W	21.22 W	Use for ENERGY STAR V6 registration(P _{idle})	H					
Sleep (S3) - WOL Enabled	1.15 W	1.15 W	1.17 W	Use for ENERGY STAR V6 registration (P _{sleep})	H					
Sleep (S3) - WOL Disabled	W	W	W	Reference	H					
Off (S5) - WOL Enabled	0.50 W	0.50 W	0.53 W	Use for ENERGY STAR V6 registration(P _{off})	H					
Off (S5) - WOL Disabled	W	W	W	Use for EuP	H					
Category D2					_					
Short Idle State - WOL Enabled	1 24.73 W	23.42 W	22.88 W	Use for ENERGY STAR V6	Г					
Long Idle State - WOL Enabled	1 22.66 W	22.43 W	22.00 W	Use for ENERGY STAR V6	H					
Sleep (S3) - WOL Enabled	1.16 W	1.16 W	1.18 W	Use for ENERGY STAR V6 registration	H					
Sleep (S3) - WOL Disabled	W	W	W	Reference	H					
Off (S5) - WOL Enabled	0.49 W	0.50 W	0.53 W	Use for ENERGY STAR V6 registration(Poff)	H					
Off (S5) - WOL Disabled	W	W	W	Use for EuP	H					
EPS No-load External power supply / charger olugged in the wall outlet but disconnected from the product.)	W	W	W							
PTEC * Typical Energy Consumption	W	W	W							

TEC * Typical Er	EC * spical Energy Consumption kWh/week kWh/week		kWh/week						
ETEC * Annual Energy Consumption		Cat. I1 76.68	Cat. I1 76.95	Cat. I1 76.22	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.45 + P_{sleep} \times 0.05 + P_{long_ldle} \times 0.15 + P_{short_ldle} \times 0.35)$				
7	io.gy concumption	Cat. 12 77.88	Cat. I2 77.11	Cat. I2 76.14	ining_late it error is short_late it errory				
		Cat. I3 82.29	Cat. I3 81.66	Cat. I3 82.05					
		Cat. D1 100.69	Cat. D1 99.97	Cat. D1 98.15					
		Cat. D2 108.07	Cat. D2 103.77	Cat. D2 101.64					
		kWh/year	kWh/year	kWh/year					
			- WOL Enabled; P.	sleep: Sleep Mode(S3) - WOL Enabled; P _{idle} : Idle State - WOL Enabled				
Display re	solution* : Mega	pixels							
Print Spee	ed * : Image	es per minute							
Default tin	ne 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 STAR® verso Others specify:			g voluntary progra uct category: <mark>I1,I2</mark> ,					
P10	Emissions								
	Noise emission - De		ISO 9296						
P10.1				Declared A-weighted sound power	Declared A-weighted sound pressure level $L_{p extsf{Am}}$ (dB)	-			
				level $L_{W\!\!Ad}(B)$	Operator position Bystander positions Desktop Confusion				
	Idle * H	IDD:Idle		* 3.1	22				
	Operation * H	IDD: Operating		* 3.3	23				
	Other mode								
	Measured according to	o: ISO7779 Other	ECMA-74 (only if not covere	ed by ECMA-74 wi	ith L _{pAm} measurement distance m)				
P10.2	The product meets the	acoustic noise re	•		,				

		90FI																		
Issue date	*	2016-5-1	16												_ogo		L	eno	VO.	
Product	environn	nental a	ttribute	es - Ma	rket re	quire	mer	its (c	conti	nuec	d)						Re	quire	men	t met
Item								•										Yes	No	
	Chemica	al emissi	ons fro	m printi	ng prod	ducts														
P10.3*		formed ac					C 28	360)	stand	lard	, 0	ther s	pecify:							X
P10.4	Typical e	emission r	ate (prir	nt phase) is (mg	/h):														X
		Dust	Ozo			yrene			enzen			TVO	2							
P10.5		al emissio		ements Ozone	of the fo	llowing Styre	_	untar	y prog		s enzer		e met f		voc	7				\boxtimes
		nagnetic				C.j.c					020.			•		_				
P10.6		er display			irement	for low	freq	uenc	y elec	troma	agne	tic field	ds of the	e follov	ving vo	luntary				
P11	Consum	nable mat	erials f	or print	ing pro	ducts														
P11.1*	A Safety	Data She	et (SDS	S) is ava	ilable fo	or the in	nk/to	ner p	repara	ation,	ever	if not	legally	requir	ed (see	P4.3).				X
P11.2*	Paper co EN12281	ontaining 1.	post-co	nsumer	recycle	ed fibe	rs ca	an be	e used	d, pro	ovide	d that	it mee	ts the	require	ements	of			\boxtimes
P11.3*	2-sided ((duplex) p	rinting/c	opying	is an int	egrate	d pro	duct	functi	on.										\times
P12	Ergonon	nics for o	omput	ing pro	ducts															
P12.1*	The disp	lay meets	the erg	onomic	require	ments	of IS	O 92	41-30	7 for	visua	ıl displ	ay tech	nologi	es.			\boxtimes		
P12.2*	The phys	sical input	device	meets t	he requ	iremen	ts of	ISO	9995	and I	SO 9	241-4	10.					\boxtimes		
P13	Packagi	ng and d	ocume	ntation																
P13.1*		packag <mark>in</mark> ç				on			(kg):											
		<mark>packaging</mark> packaging							<mark>: (kg):</mark> : (kg):	0.2										
P13.2*	Product	plackagiii plastic pa	ckaging	is free t	from PV	'С.	VV	eigiii	. (kg).									\square		
P13.3*		media for					on (t	ick h	υx).											
1 10.0		ic 🔀, Pa				noman	011 (1	ioit b	OX).											
P13.4*		er user an				n, plea	ase s	pecif	y cont	ainec	d per	centag	e of po	st-con	sumer r	ecycled	l			
P14		nal inforn	nation (See Not	te B4)															
	NOTE: S informati knowledg	Supplier m ion contai ge availat I here is a	akes no ned in the	represonis docu e time o	entation ment. A f comple	II infor	mation s	on pro uppli	ovided er sha	l by s Ill hav	suppli ve no	er in tl obliga	nis docu ation to	ıment update	is provi e such i	ded bas nformat	ed o	n supported in the second in t	olier's forma	
P9		ergy Star ww.energ													.pgw_c	ode=C	0			

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

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	ideacentre 510S-08ISH	Logo
Model Number	90FN	Lenovo
Issue Date	2016-5-16	Lei IOVO.
Additional information		

	year of manufacture:	Available on product label						
e)	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:							
	Category (according to ErP Lot 3): Etec:							
(f)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enabled:							
	Category (according to ErP Lot 3): B Category (according to ErP Lot 3): C Category (according to ErP Lot 3): D Etec: 86.56 Etec: 81.61 Etec: 99.41							
g)	idle state power demand (Watts);	Cat. B: 27.54 Cat. C: 22.46 Cat. D: 23,83						
h)	sleep mode power demand (Watts);	Cat. B: 25,65 Cat. B:1.16 Cat. C: 0.82 Cat. D: 1.17						
i)	sleep mode with WOL enabled power demand (Watts) (where enabled);	Cat. B:1.16 Cat. C: 0.82 Cat. D: 1.17						
j)	off mode power demand (Watts);	Cat. B:0.53 Cat. C: 0.53 Cat. D: 0.54						
k)	off mode with WOL enabled power demand (Watts) (where enabled);	Cat. B:0.53 Cat. C: 0.53 Cat. D: 0.50						
[1)	internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable): 10% 82.26% 20% 87.39% 50% 88.50% 100% 85.78% Average 87.22%							
(m)	external power supply efficiency (if applicable): 10% 20% 50% 100% Average ; or level:							
0)	the minimum number of loading cycles that the batteries can withstand (applies only to notebook c	omputers):						
p-1)	the measurement methodology used to determine information mentioned in points (I) – in efficiency: 80 PLUS® Program	ternal PSU						
p-2)	the measurement methodology used to determine information mentioned in points (m) $-$ exefficiency: N/A	tternal PSU						

	batteries: N/A									
	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	r off mo	de was selected or prograr	mmed:					
	Begin menu -> Power -> Select sleep or off mode									
	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									
	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 power mo	of time after a peri de that has a lower	od of u power	ser inactivity in which the demand requirement than	e computer automatically reaches a sleep mode (in minutes):	25				
(v)	the length	of time before the	display	sleep mode is set to act	ivate after user inactivity (in minutes):	10				
(w)	information	on the energy-savir	ng potei	ntial of power managemen	t functionality:					
				N/A						
(x)	user inform	nation on how to ena	ble the	power management function	onality:					
				Refer to User Guide						
	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:									
Test voltage in V and frequency in Hz 230V/50Hz Total harmonic distortion of the electricity supply system ≤2% Information and documentation on the instrumentation, set-up and circuits used for electrical testing										
		Instrument		Range Used	Make and Model **					
		Туре	Or ***							
	AC Power Sour		1~280	0VAC;1~550HZ;1000VA.	NF;EC1000S; SN:9152124					
	Di	igital Watch		Full range	CASIO; HS-70W; SN:208Q08R					
	Power Meter		0~600V;0~20A		YOKOGAWA;WT210;SN:91M944 560					
		othermograph		15~35℃/15~90%	testo; 608-H1,SN:1034895602					
		nal anemometer		0~20m/s,-20~70°C	Testo;425;SN:02591883					
Addition		ht Measuring		1°;1-300cd/ m²	Konica Minolta;LS-110;					
Addition Notebook Battery Information: Yes No n/a This notebook computer is operated by battery/ies that cannot be accessed by a non-professional user.						be accessed and replaced				
		(Battery user replaceable)	The battery[ies] in this product cannot be easily replace themselves			ly replaced by users				