

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 Y900 RE-34ISZ				
Model number *	90FK				
Issue date *	2016-04-29				
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	Control	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 control such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	90FK		
Issue date *	2016-04-29	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).	\boxtimes			
P1.3*	Comment: Legal reference has no maximum concentration value. Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),				
F1.3	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				
P1.6*	chain containing at least 48% per mass of chlorine in the SCCP (see legal reference). Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS),			\square	
1 1.0	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			\boxtimes	
	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/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):	\boxtimes			
	http://www.lenovo.com/social_responsibility/us/en/materials.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	\boxtimes			
	design of the product). Exception: Batteries that are permanently installed for safety, performance, medical				
P3	or data integrity reasons do not have to be "easily removable". (See legal reference) 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*			H	+	
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).		<u> </u>	 	
	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).	\boxtimes			
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).		Ш		
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			\boxtimes	
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).	\boxtimes			
	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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Issue date *	2016-04-29	Logo	Lenovo

Product	environmental attributes - Market requirements - Environmental conscious design R	equire	ment	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).	\boxtimes			
P7	Design				
D7.4*	Disassembly, recycling	<u> </u>			
P7.1*	Parts that have to be treated separately are easily separable			<u>Ц</u>	
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.	\boxtimes			
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	\boxtimes			
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	\boxtimes			
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	\boxtimes			
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\boxtimes			
P7.8*	Upgrading can be done using commonly available tools	\boxtimes			
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			ī	
	Material and substance requirements				
P7.11*	Product cover/housing material type:				
	Material type: PC Material type: Steel				
P7.12	Electrical cable insulation materials of power cables are PVC free.		\boxtimes		
P7.13	Electrical cable insulation materials of signal cables are PVC free		\boxtimes		
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	\boxtimes			
P7.15	All printed circuit boards (without components) >25g are halogen free as defined in IEC61249-2-21. (See		$\overline{\boxtimes}$		
	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: <i>Brominated Epoxy Resin</i> , CAS #: 26265-8-7				
	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4:				
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: R40, CAS #: 5945-33-5 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
		\boxtimes			
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 10.59%.				
P7.21	Of total plastic parts' weight >25g, biobased material content is 0% .		_		
P7.22	Light sources are free from mercury				
P8	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg Batteries mg				
P8.1*	Battery chemical composition: Lithium manganese dioxide				
P8 2	Ratteries 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.

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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					
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 *	Ш
Peak (On-max)	W	W	W	Full load	
Category D2					
Short Idle State - WOL Enable	ed 54.21 W	56.04 W	51.89 W	Use for ENERGY STAR V6 registration(P _{idle})	
Long Idle State - WOL Enable	d 51.72 W	50.77 W	51.89 W	Use for ENERGY STAR V6 registration(P _{idle})	
Sleep (S3) - WOL Enabled	2.26 W	2.26 W	2.44 W	Use for ENERGY STAR V6 registration (P _{sleep})	
Sleep (S3) - WOL Disabled	W	W	W	Reference	
Off (S5) - WOL Enabled	0.60 W	0.61 W	0.80 W	Use for ENERGY STAR V6 registration(P _{off})	
Off (S5) - WOL Disabled	W	W	W	Use for EuP	
EPS No-load	W	W	W		
(External power supply / charge plugged in the wall outlet but disconnected from the product.					
PTEC * Typical Energy Consumption	W	W	W		
TEC * Typical Energy Consumption	kWh/week	kWh/week	kWh/week		
ETEC * Annual Energy Consumption	237.54 kWh/year	241.95 kWh/year	231.49 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.45 + P_{sleep} \times 0.05 + P_{long_idle} \times 0.15 + P_{short_idle} \times 0.35)$	
	P _{off} : Off Mode(St	5) - WOL Enabled; I	P _{sleep} : Sleep Mode	(S3) - WOL Enabled; P _{idle} : Idle State - WOL Enabled	
Display resolution* : Me	gapixels		-		\times
Print Speed * : Ima	ages per minute				
Default time to enter energy say	ve mode: 25 minutes	i			
P9.2* Information about the	ne energy save funct	ion is provided wit	th the product.		
ENERGY STAR® v Others specify:	the energy requirem rersion: Version 6.1		ng voluntary prooduct category:	gram/s:	
P10 Emissions	Doctored according t	o ISO 0206			
	Declared according to lode description	0 130 9290	Declared	Declared A-weighted	
			A-weighted	sound pressure level L_{mAm} (dB)	
			sound power	Dustandan nasitiana	
			level L_{WAd} (Desktop 🗵	
				or Desk side (only if product is not operator attended)	
Idle *	HDD:Idle		* 3.8	29	
Operation *	HDD: Operating		* 3.9	26	
Other mode					
Measured accordin	_	ECMA-74	= = .		
P10.2 The product meets	Other the acoustic noise re			with L _{pAm} measurement distance m) ary program/s:	\square

		90FK				
Issue dat	ssue date * 2016-04-29 Logo		go	_eno	VO.	
Product	environn	nental attributes - Market requirements (continued)	F	Require	ment	met
Item				Yes	No	n.a
	Chemica	al emissions from printing products				
P10.3*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:				\boxtimes
P10.4	Typical e	emission rate (print phase) is (mg/h):				X
		Dust Ozone Styrene Benzene TVOC				
P10.5		al emission requirements of the following voluntary program/s are met for : Oust Ozone Styrene Benzene TV0	oc 🗌			\boxtimes
		nagnetic emissions				
P10.6	program		ng voluntary			
P11	Consum	nable materials for printing products				
P11.1*		Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required				\boxtimes
P11.2*	EN1228		equirements of			
P11.3*	2-sided ((duplex) printing/copying is an integrated product function.				\boxtimes
P12		mics for computing products				
P12.1*	The disp	play meets the ergonomic requirements of ISO 9241-307 for visual display technologies				\boxtimes
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410.			\boxtimes	
P13	Packagi	ing and documentation				
P13.1*	Product Product	packaging material type(s): carton packaging material type(s): EPE packaging material type(s): weight (kg): 2.85 weight (kg): 0.685 weight (kg):				
P13.2*		plastic packaging is free from PVC.		\boxtimes		
P13.3*		media for user and product documentation (tick box): ic ⊠, Paper ⊠, Other □				
P13.4*	For pape fiber: 0°	er user and product documentation, please specify contained percentage of post-consu %	mer recycled			
P14		nal information (See Note B4)				
	informati knowled	Supplier makes no representations, guarantees, assurances or warranties whether exprision contained in this document. All information provided by supplier in this document is ge available at the time of completion, and supplier shall have no obligation to update so here is approximate and provided for informational purposes only. See a Lenovo According.	provided based such information	on supp	olier's format	iion
P9	See Ene	ergy Star Qualified Notebooks & Tablet Computers for the latest information: ww.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&p	gw_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

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 Y900 RE-34ISZ	Logo
Model Number	90FK	Lenovo
Issue Date	2016-04-29	Lei IOVO.
Additional information		

(d)	year of manufacture: Avai	ilable on product			
(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): D Etec: 182.50				
g)	idle state power demand (Watts);	50.71			
h)	sleep mode power demand (Watts);				
i)	sleep mode with WOL enabled power demand (Watts) (where enabled);	2.43			
j)	off mode power demand (Watts);				
k)	off mode with WOL enabled power demand (Watts) (where enabled);	0.78			
(1)	internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):				
	10% 81.05% 20% 85.57% 50% 86.88% 100% 83.78% Average 85.41%				
m)	external power supply efficiency (if applicable):				
	10% 20% 50% 100% Average ; or level:				
(o)	the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):	N/A			
p-1)	the measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency: **refer to 80 PLUS Program**				
p-2)	the measurement methodology used to determine information mentioned in points (m) – external PSL efficiency:	J			
	N/A				
p-3)	the measurement methodology used to determine information mentioned in points (o) – loadingcycles batteries:	3			
	N/A				

	power as defined in Point P9.1 in the Product IT Eco Declaration:						
	IEC 62623 / IEC EN50564:2011 measurement methodology						
(p)	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 off mode was selected or programmed:						
	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 min						
	the length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode (in minutes): 25 min						
(v)	the length of time before the display sleep mode is set to activate after user inactivity (in minutes): 10 min						
(w)	information on the energy-savi	ng potential of power manageme	ent functionality:				
	N/A						
(x)	user information on how to ena	ble the power management fund	ctionality:				
	Refer to User Guide						
	test parameters for measurement electricity supply system, — infor electrical testing:	quency in Hz, — total harmonic distortior the instrumentation, set-up and circuits u	n of the used				
	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 **				
	Type	Or *** 1~280VAC;1~550HZ;1000V					
	AC Power Source	A.	NF;EC1000S; SN:9152124				
	Digital Watch	Full range	CASIO; HS-70W; SN:208Q08R				
	Power Meter	0~600V;0~20A	YOKOGAWA;WT210;SN:91M94456 0				
	Hygrothermograph	15~35°C/15~90%	testo; 608-H1,SN:1034895602				
	Thermal anemometer Light Measuring	0~20m/s,-20~70°C 1°;1-300cd/ m²	Testo;425;SN:02591883 Konica Minolta;LS-110;				
Addition No	otebook Battery Information:	1 ,1-300cd/111	Romca Minora,E3-110,				
Yes	No	n/a This notebook comput	er is operated by battery/ies that cannot	be accessed and replaced			
(Battery not user replaceable) (Battery user replaceable)		by a non-professional user. The battery[ies] in this product cannot be easily replaced by users themselves					