



MD 94.310¹

SAUTER Declaration on materials and the environment



Type	EY-RC311F001
Designation	Room Controller ecos311¹
Product range	SAUTER EY-modulo 3 System
Product group of eco-balance	Building management – HVAC

Manufacturer Fr. Sauter AG
Im Surinam 55, CH-4058 Basel

Management system certified according to		Since	With
	ISO 9001:2015	10 Oct. 2018	SQS
	ISO 14001:2015	10 Oct. 2018	SQS
	ISO 45001:2018	10 Oct. 2018	SQS

Environmentally-compatible product design	Basis	Management system Fr. Sauter AG
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Process	Business process <ul style="list-style-type: none"> • Product innovation • Ecological accounting
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¹ Type: EY-RC311

Product description	CE conformity, function, operation, maintenance, servicing	See PDS 94.310,
Environmental risk	Fire protection according to Fire load Hazardous substances ¹ according to Hazardous substances ² according to Parts containing halogen (causing corrosive smoke) Liquids polluting the aquatic environment Explosive substances Transport hazardous goods class	EN 60695-2-11, EN 60695-10-2 16.2 MJ RoHS 2011/65/EU & 2015/863/EU compliant. Product category 9. REACH 1907/2006/ EC compliant. Printed circuit board None Battery / CR2032 (danger only if used improperly) ADR: 9 M4 (E), IATA: UN3091

Materials

	Total weight of product	725 g¹	Material Safety Data Sheet (MSDS)	EU waste code ³
Plastic				
PC		163.5 g	Not required	20 01 39
PP		1.0 g	Not required	20 01 39
Metal				
Steel of different alloys		0,5 g	Not required	20 01 40
Printed circuit board				
PCB assembly, included transformers		498.0 g	Not required	20 01 36
Packaging⁴				
Corrugated board PAP20		43.0 g	Not required	20 01 01
Paper PAP22		11.0 g	Not required	20 01 01
Foil LDPE 04		5,0g	Not required	20 01 01
Special components				
Lithium battery CR2032 (part of assembled basic circuit board)		3.0 g	Yes	20 01 34

¹ Refers to the total weight including packaging

² SVHC substances >0.1%w/w: see **Hazardous ingredients**

³ Directive 75/442/EEC and follow-on documents, ruling 2001/118/EC

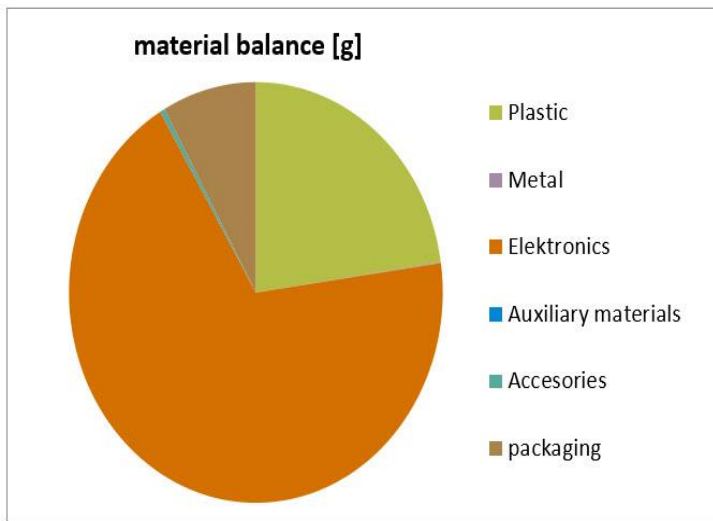
⁴ Directive 94/62/EC, 2004/12/EC, 2005/20/EC, 2018/852/EC

Hazardous ingredients

SVHC ingredient		Name of the ingredient	Effective concentration per article, %w/w
CAS number	EN number		
110-71-4	203-794-9	Ethylene glycol dimethyl ether (EGDME), 1,2-Dimethoxyethane	1 – 3.5
7439-92-1	231-100-4	Lead	< 10%

[Link to the candidate list of ECHA](#)

Materials balance



Material balance	g
Plastic	164,5
Metal	0,5
Elektronics	498,0
Auxiliary materials	0,0
Accesories	3,0
packaging	59,0
	725,0

Energy requirement in the utilisation phase

Power requirement for component

Max. power consumption 5.0 W

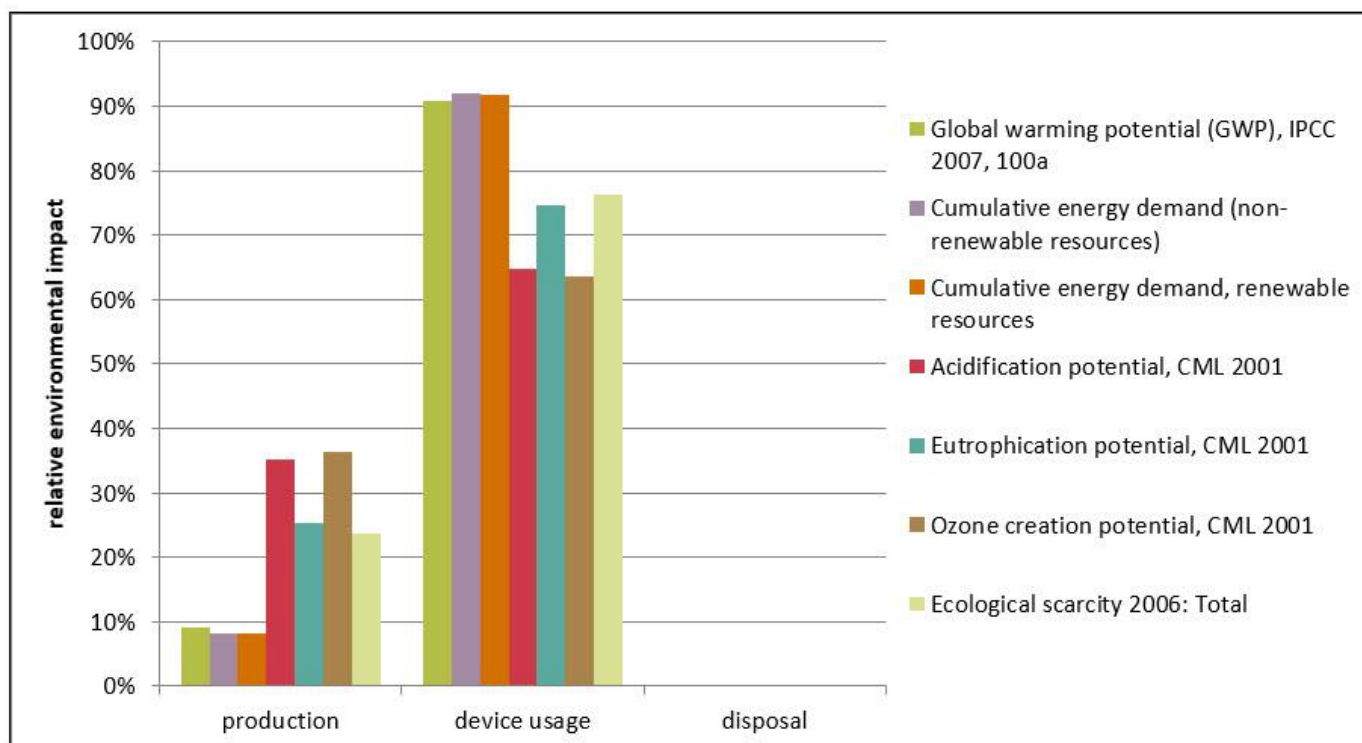
Typical energy consumption per year 43.2 kWh

The energy requirement evaluation was performed for a typical utilisation scenario. The European electricity mix from ecoinvent 2.2 was used to evaluate the power consumption in the utilisation phase.

Calculation of the environmental impact

Evaluation over the entire life stage of 8 years in a typical utilisation scenario. The results shown are based on a method of ecological scarcity that combines various environmental effects into an “environmental impact points” key figure. The method is based on Switzerland’s environmental targets and evaluates the individual effects depending on the “Distance to Target”.

Indikator	unit	production	device usage	disposal	Total
Global warming potential (GWP), IPCC 2007, 100a	kg CO2 eq.	19	190	-	209
Cumulative energy demand (non-renewable resources)	MJ eq.	339	3.850	-	4.190
Cumulative energy demand, renewable resources	MJ eq.	26,3	292	-	318
Acidification potential, CML 2001	kg SO2 eq.	0,43	0,78	-	1,21
Eutrophication potential, CML 2001	kg PO4-- eq.	2,11E-01	6,22E-01	0,00E+00	8,33E-01
Ozone creation potential, CML 2001	kg C2H4 eq.	1,81E-02	3,15E-02	0,00E+00	4,96E-02
Ecological scarcity 2006: Total	UBP	60.000	194.000	-	254.000,0



The relationship of the contributions made by the utilisation in comparison to those made by the reduction and disposal depends on the intensity of the utilisation (utilisation scenario).



Disposal

Product:

The device must be disposed of as waste from electrical and electronic equipment (electrical/electronic scrap) and must not be disposed of as household waste. This applies in particular to the assembled PCB.

Special treatment for special components may be compulsory by law or may make ecological sense.

WEEE (Waste Electrical and Electronic Equipment)

The local and currently valid laws (WEEE2012/19/EU) must be observed.

Battery:

If present and applicable, battery disposal fees will be paid by the importer. (See list of materials on page 2.)

Packaging:

Recyclable

How the environment benefits

With these products, we make a significant contribution to energy savings in buildings and to reducing climate change.

With only 5Wh energy consumption in basic operation, the primary energy requirement is outstandingly low. Its resource-saving compact design and easy single-sort disassembly result in optimal sustainability with a life expectancy of 8 years.

The eco-balance becomes even more optimal with the use of energy from renewable sources.

Extent of applicability

This declaration is an environmental declaration based on ISO 14025 and describes the environmental impact of the product over its entire life stage. The declaration is made in a compact form without an external check or registration.

The data gathered with existing data inventories for production processes has been evaluated from the ecoinvent 2.2 European database.

For the determination of the energy requirement during the utilisation phase of the product, standard HVAC applications and average climatic conditions in Switzerland were assumed, based on the ecological accounting for the corresponding product group.



Disclaimer: This declaration is for information purposes only.

Deviations from the information it contains can occur without notification. Fr. Sauter AG explicitly rules out any liability for any consequences that may result due to the above information.



Your local SAUTER representative will provide further information on environmental aspects, and specifically on disposal.

References

Ecoinvent 2010 ecoinvent data v2.2, Swiss Centre for Life Cycle Inventories, Dübendorf

FOEN 2008 eco-balances: method of ecological scarcity – eco-factors 2006, FOEN