

Environmental declaration Type II

GENERAL PRODUCT INFORMATION

<i>Name of product series</i>	<i>Packaging</i>
CORRIGO E/EXOCOMPACT Gen.III	Cardboard

COMPANY INFORMATION

Company, address and telephone

AB REGIN

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Company description

Regin is the collected trademark for products and systems within building automation. The company's knowledge is based on many years of wide experience within control, automation and flow control. Regin AB has a certified quality assurance system according to ISO 9001

Ongoing environmental work

Regin designs products on commission from clients as well as for resale. The company has no production of its own and has thereby no product related consequences for the environment. Regin can control environmental aspects related to product development and when choosing suppliers and components.

Regin AB intend to begin working with environmental certification according to ISO 14 001.

Regin AB intend to gradually start developing MVD Type II (Regins own environmental declaration) for our products.

PRODUCT INFORMATION

General

Recommended field of application is stated in the technical documentation.

There is an unambiguous and lasting label (manufacturer, product name, serial number etc) on the product.

The labelling is linked to the technical documentation which makes the product clearly identifiable.

Product design

The product series Corrigo E and EXOcompact is based on the same electronic platform which differs only by software. Corrigo E is pre-programed, configurable and EXOcompact is free programmable. In each platform there are a range of models with different amount of in-, outputs and communication protocol. E81/C81 have 8 in-, outputs, E151/C151 have 15 in-, outputs etc. There are also models with internal display option.

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Component modules	Weight gram	Weight %
Electronics (amount of comp. are different in each model)	115-227	50-66
Cover	117-123	34-50

PRODUCT INFORMATION, RESOURCES AND HAZARDOUS SUBSTANCES

Component modules	Resources (metals, organic, non-organic substances)	Hazardous substances (Kd, Hg, Pb, PCB, PVC, PBB, PBBE etc)
Electronics	<i>Epoxy, Cu, Ag, Fe, Zn, Quartz, TBBP-A</i>	<i>TBBP-A</i>
Cover	<i>PC/ABS, PC</i>	
Buttons	<i>Rubber</i>	
Battery CR2032	<i>Lithium cell</i>	

Notes, the products content

The Lithium cell for memory backup has to be exchanged every 5th year at most. The lithium cell is placed in a holder on the base card.

PRODUCTION

Regin has no production of its own and has thereby no product related consequences for the environment.

The components are mounted manually and thereafter soldered together with classified soldering.

The environmental consequences are negligible, and consists solely of air outlet from soldering

The operation does not need licensing

DISTRIBUTION

Production district

Hultsfred

Mode of transportation

Lorry, train

Mode of distribution

The commodity is normally distributed via a warehouse/wholesaler.

Wrapping Material

Wood, paper, plastic

Packaging material can not be returned

Regin AB is connected to REPA

BUILDING PHASE

Documented instructions for mounting and commissioning are included with the commodity.

In the instructions there are recommendations concerning

- Safeguard measurement for handling procedures and mounting.
- Handling of the commodity at the workplace and during mounting.

USAGE PHASE

Running

The product needs surplus energy (electricity) during normal operation.

The product does not have any environmental impact to the surrounding environments during normal operation.

Normally, the product does not need any maintenance.

It is possible to estimate the products life span in advance.

There is no documentation concerning expected life span at different conditions.

Documented instructions for appropriate operation and maintenance are appended with the product.

Emergency

In case of fire the plastic can evolve gases harmful to human health. The amounts of these substances are small due to the size of the product.

Circuit boards can emit toxic flue gases.

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DEMOLITION

The product is prepared for environmentally sound dismantling.

Dismantling of the product:

1. Plastics parts with a screwdriver in the split between front and bottom.
2. PCB parts with bottom by placing a screwdriver by the hooks holding it in place. Sort as electrical scrap.
3. Remove Lithium cell and sort it as battery.

WASTE MANAGEMENT

The long life span of the product means that the recycling situation can be different from today when the product shall be recycled.

The product is required, by law, to be handled according to standard waste management procedures.

The materials can easily be separated into a high separation degree.

The casing, buttons and encoder consist of PC and can therefore, theoretically, be recycled.

Recovering of energy through combustion is considered as the best option in the present situation, since the plastic does not contain any substances dangerous for the environment.

Circuit boards with components are required by law to be dismantled and constituent components identified. Swedish companies within electronic recycling separate in three main fractions. Recycling of materials, recovering of energy and dangerous waste.

Identified metallic constituents are returned to metal recycling.

Combustible materials are returned for safe disposal in a licensed incinerator.

Dangerous waste is returned for destruction to a licensed entrepreneur.

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THE CHALLENGER IN BUILDING AUTOMATION