

OJ ELECTRONICS A/S
STENAGER 13 B
DK-6400 SØNDERBORG
DENMARK

T. +45 73 12 13 14
F. +45 73 12 13 13
WWW.OJELECTRONICS.COM
OJ@OJELECTRONICS.COM
CVR 10643597



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OJ Declaration on Environment and Materials OJ-DRHX series (1-8 Nm) Drives for rotating heat exchangers

Environmental commitment of OJ Electronics A/S

Green vision

OJ Electronics will continue to develop intelligent solutions, which provide maximum comfort with minimum energy consumption.

Green strategy

For OJ Electronics, sustainability is a business approach that aims to achieve the best possible outcome not just for ourselves, but for our stakeholders and the environment too.

Impact

In all our business decisions and processes, we at OJ Electronics seek to strike a responsible balance between economic, human, and environmental considerations

Products concerned

The data is representative of the OJ-DRHX H0 series (1-8 Nm) of drives for rotating heat exchangers.

Reference product is OJ item no. OJ-DRHX-1220-MAD5



Data are representative of OJ item numbers:

XX-DRHX-1055-YYYY
XX-DRHX-1220-YYYY

XX representing letters "OJ" or customer two-letter abbreviation.
YYYY representing different combinations of letters and digits,
referring to different options for add-on modules, connections,
fans and classifications.

Constituent materials

The products consist of the following fractions or components:

Component	Material	Weight (g)	Weight % of total
Box frame, lid, isolation cover, fixture, lens	Plastic, PC	330	35%
Cable Glands	Plastic, PA	10	1%
Bottom plate	Aluminum	380	40%
Nuts	Brass	8	<1%
Screws	Steel	10	1%
Isolation pad	Silicone	2	<1%
Electronics	PCB, components	210	22%
	Total	950	100%

We declare that to the best of our knowledge the products meet the requirements of RoHS3, Restriction of Hazardous Substances Directives 2011/65/EU (RoHS2) with amendments, including Directive 2015/863/EU (RoHS3).

We declare that to the best of our knowledge the products meet the requirements of POP, Regulation (EU) 2019/1021 of the European Parliament and of the Council on persistent organic pollutants with amendments.

We declare that no nano materials have been intentionally added to the product.

In accordance with REACH, Registration, Authorisation and Restriction of Chemicals, European Union Regulation (EC) 1907/2006 with amendments, we hereby declare that the product includes the following components with a content of Substances of Very High Concern, SVHC, above the limit of 0,1%, referring to the SVHC Candidate List of 10th of June 2022.

Component *)	Component weight (g)	SVHC	CAS-no.	Substance concentration (% w/w)	RoHS Exemption
UFM15PL-TP	0,017953	Lead	7439-92-1	3,2%	7.a
UCD1H101MNL1GS	Not available	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	>0,1%	No
SMBJ6.5CA-E3/5B	0,093	Lead	7439-92-1	7,1%	7.a, 7.c-1
TBS22M-TP	0,197	Lead	7439-92-1	0,4%	7.a
STGIPQ5C60T-HZ	Not available	Lead	7439-92-1	>0,1%	7.a, 7.c-1
B57153S0100M000	0,7	Lead	7439-92-1	5,5%	7.a

*) Where alternative components might be used, "worst case" is reported

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Packaging

Products are delivered from OJ Electronics A/S on wooden pallets in wooden frames. Products are layered in frames. Cardboard inserts separate layers. Pallet with frames is wrapped in plastic foil or strapped with plastic strapping, depending on size of delivery.

Pallet: Euro pallet, heat treated according to ISPM 15
Frame: Frame for euro pallet, heat treated according to ISPM 15
Insert: brown cardboard
Wrapping foil: Plastic, LLPDE
Strapping: Plastic, PP

Number of frames and inserts and amount of wrapping foil and strapping used depend on size of delivery. For very small orders (one or a few pieces), packaging might differ from description.

Manufacturing

The products are manufactured at OJ Electronics A/S, Sønderborg, Denmark. OJ Electronics has an environmental certification according to ISO 14001:2015.

Installation

For the installation of the products, only standard tools are needed.

Use

No consumables are necessary to use these products.

End of life

Development team at OJ Electronics A/S aims to integrate product end-of-life factors in the design phase.

Hazardous Waste

The electronics include components with a content of SVHC above the limit of 0,1% as stated under "Constituent materials".

OJ is in the process of registering products in the SCIP database in accordance with EU Waste Framework Directive (EU) 2018/85. This declaration will be updated as soon as a SCIP registration number is available.

Recycling

Recyclability rate is estimated to 95%.

Products can be separated into following waste fractions:

Fraction	% mass of products
Metal (aluminum, steel)	41%
Plastic (PP and PA)	36%
Electronic card, components	22%
Other	1%

Packaging is 100% reusable (pallet, frames) or recyclable (inserts, wrapping foil, strappings).

Best regards
OJ ELECTRONICS A/S

Karin Schmidt, Quality Coordinator