SPIRO-G

ENVIRONMENTAL PRODUCT DECLARATION

COMPANY INFORMATION: REC Indovent AB

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Quality certified ISO 9001:2015
Environmental certified ISO 14001:2015

Following data concerns Pipe Register G, with size 425x125 mm.

1. PRODUCT DESCRIPTION

The Pipe Register G is a damper for supply and exhaust air and can be directly installed in circular visible ducts.

For recommended range of application we refer to the product catalogue.

2. DECLARATION OF CONTENTS

The product is made of sheet steel and is stove enamelled in white epoxy. The valves are equipped with a gasket of PVC to form an airtight seal against the duct.
The product does not contain substances that are included in the Priority guide PRIO from Swedish National Chemical Inspectorate.

3. INPUT MATERIALS

Material:	weight-%	weight(kg)
Sheet steel	99,7	1,3
PVC	0,15	0,002
Paint	0,15	0,002

(The paint contains of 60% polyester and 40% epoxy)

Energy consumption during material production:

Material:	MJ/Pipe Register G:
Sheet steel	4,63
Paint	0,11
PVC	0,13
Total:	4,87

Emissions to water during material production (expressed as g/ Pipe Register G):

Chloride (Cl^-)	0,81
Sodium (Na^+)	0,32
Nitrate (NO_3^-)	0,74
Nitrogen (N_{tot})	0,14
Suspended material	0,078
COD	0,071

Emissions to air during material production (expressed as g/ Pipe Register G):

Carbon dioxide (CO_2)	601,12
Nitrogen oxides (NO_x)	1,17
Sulphur oxides (SO_x)	0,24
Hydrocarbons (HC)	0,11
Particles	0,10
Methane (CH_4)	0,037

4. PRODUCTION

Energy consumption during production phase: N/A

Emissions to water: N/A
Emissions to air: N/A

Production waste (rest products): N/A

5. DISTRIBUTION OF FINAL PRODUCT

Packing material: Cardboard boxes, corrugated cardboard
The packing material can be recycled and then re-used, producing either new material or energy.
REC Indovent is affilated with REPA (Return system for packing material)

Transportation:
Way of transportation: Truck, ferry
Fuel: Diesel,
Environmental Class 2
(0,005 % sulphur)

Estimated emissions due to transportation (expressed as g/valve):

Carbon dioxide (CO_2)	173,6
Nitrogen oxides (NO_x)	1,5
Hydrocarbons (HC)	0,09
Carbon monoxide (CO)	0,17
Particles (PM)	0,02

6. USING PHASE

The product is emission free during use.

7. DISPOSED PRODUCT

The disposed product does not contain environmentally hazardous waste. Materials that are parts of the disposed product should be separated in order to enable re-use alternatively recycling.

8. ENVIRONMENTAL IMPACT

Environmental impact that the largest emissions are associated with:

Chloride + Sodium	No environmental effect
Nitrate	Nutrification, acidification
COD	Consumption of oxygen in seas and lakes
Carbon dioxide	Greenhouse effect
Sulphur oxides	Acidification
Nitrogen oxides	Groundleve ozone, acidification, nutrification

9. OTHER INFORMATION

Characterization factors according to SS-EN15804. Calculated according to the standard SS-EN 15978. TYPE II - ISO 14025

Characterization factors for production phase:			
	GWP	(Global Warming Potential)	0,13 kg CO_2- equivalents
	AP	(Acidification Potential)	0,29 g SO_2- equivalents
	POCP	(Photochemical Ozone Creation Potential)	0,00086 g ethene-e equivalents
	EP	(Eutrophication potential)	0,60 g PO_4^{3-}- equivalents