

Product Environmental Profile

Maquet Volista StandOP

Surgical Light

Maquet Volista StandOP

Product Environmental Profile

Product description

The profile has been achieved with the most representative configuration among our sales. Maquet Volista StandOP surgical light 400/600 DF, with adjustable color temperature & Volista VisioNIR, AIM and boost mode, a SA suspension 850/1000, a power supply VPS 2 COM and a recessed touchscreen.

Use

The cupolas are adjusted to 100,000 Lux minimum and operate 10 hours per day, 300 days per year during 10 years.

What is a Product Environmental Profile?

Our Product Environmental Profile is part of our Life Cycle Assessment (also known as life cycle analysis). This is a methodology for assessing environmental impacts associated with all the stages of the life cycle of a commercial product, process, or service. For instance, in the case of a manufactured product, environmental impacts are assessed from raw material extraction and processing (cradle), through the product's manufacture, distribution and use, to the recycling or final disposal of the materials composing it.

In 2020, a product improvement project has been implemented and has allowed to reduce CO₂ emissions of the Maquet Volista StandOP by 3%.

Manufacturing

More of 99% of components are considered for each configurations, the total mass of the model is >95% of the real mass.


The following tab summarizes the distance between suppliers and the Getinge French assembling plant.



			
France	1,000 km (621 mi)	-	French assembling plant 
Europe	3,500 km (2,174 mi)	-	
North Africa	1,000 km (621 mi)	+ 7,000 km (4,349 mi)	
Africa	1,000 km (621 mi)	+ 12,000 km (7,456 mi)	
Asia	1,000 km (621 mi)	+ 19,000 km (11,806 mi)	
North America	1,000 km (621 mi)	+ 14,000 km (8,699 mi)	
South America	1,000 km (621 mi)	+ 14,000 km (8,699 mi)	
Middle East	1,000 km (621 mi)	+ 8,000 km (4,970 mi)	
Oceania	1,000 km (621 mi)	+ 19,000 km (11,806 mi)	

Distribution

The following tab summarizes distances between Getinge French assembling plant and customers. The distribution is done at 90% by boat and 10% by plane.

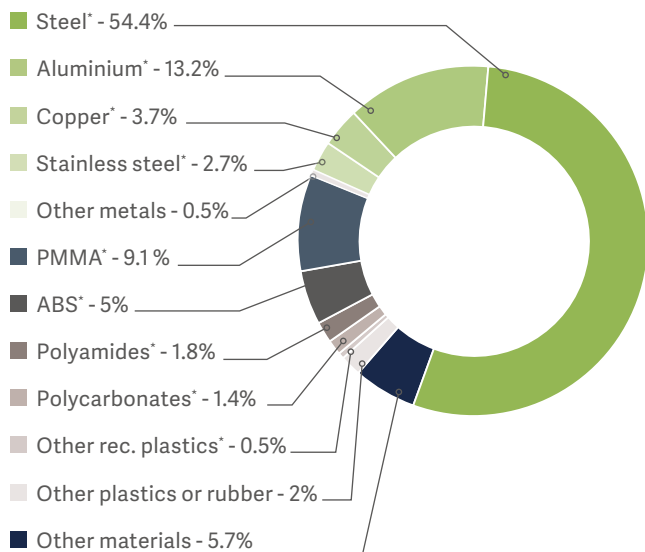
French assembling plant	Truck		Truck + Ship		Truck + Plane		Region
	1,000 km (621 mi)	3,500 km (2,174 mi)	-	-	-	-	
	-	-	2,400 km (1,491 mi)	12,000 km (7,456 mi)	2,000 km (1,242 mi)	10,000 km (6,213 mi)	France
	-	-	-	-	-	-	Europe
	-	OR	2,400 km (1,491 mi)	12,000 km (7,456 mi)	2,000 km (1,242 mi)	10,000 km (6,213 mi)	Africa
	-	OR	3,800 km (2,361 mi)	19,000 km (11,806 mi)	2,000 km (1,242 mi)	10,000 km (6,213 mi)	Asia/Japan
	-	OR	2,800 km (1,739 mi)	14,000 km (8,699 mi)	2,000 km (1,242 mi)	10,000 km (6,213 mi)	North America
	-	OR	2,800 km (1,739 mi)	14,000 km (8,699 mi)	2,000 km (1,242 mi)	10,000 km (6,213 mi)	South America
	-	OR	1,600 km (994 mi)	8,000 km (4,970 mi)	800 km (497 mi)	4,000 km (2,485 mi)	Middle East
	-	OR	3,800 km (2,361 mi)	19,000 km (11,806 mi)	2,400 km (1,491 mi)	12,000 km (7,456 mi)	Oceania

Results

The EIME (Environmental Impact and Management Explorer) software version 5.8.1, and its database, version CODDE-2018-11 were used for the Life Cycle Assessment (LCA). Indicators for PEP ecopassport PCR3 – 2015 are used.

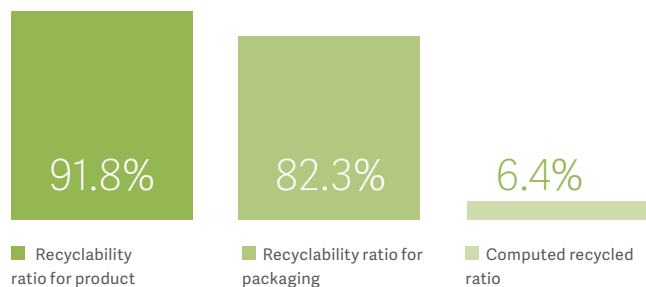
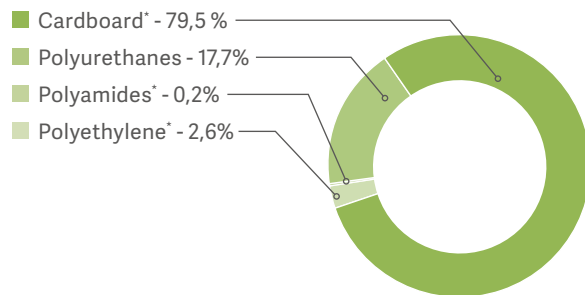
Product

Real weight of the product : 85,3 kg / 188,05 lb



Packaging

Packaging weight : 16.36 kg / 36.07 lb



*Material recyclable

The following materials are considered recyclable

- Steel, Alu, Bronze, Brass, Copper (except cables)
 - Cardboard, Paper
 - Thermoplastics (PMMA, PVC, ABS, ABS-PC, PC, PS, PET, PE, PA, PP, POM)
- Thermosetting plastics, elastomers and other materials not listed are considered non-recyclable

Environmental impact

France, Europe, North and South America, Asia, Japan, Oceania, Middle East, Africa

In order to evaluate the environmental impact and footprints of each geographical area, the following categories are used as indicators.

A - Acidification potential of soil and water - Unit: kg SO₂ eq.

ADPe - Abiotic depletion (elements, ultimate reserves)

Unit: kg antimony eq.

ADPf - Abiotic depletion (fossil fuels) - Unit: MJ

AP - Air pollution - Unit: m³

EP - Eutrophication (fate not incl.) - Unit: kg PO₄ eq.

GWP - Global warming (GWP100) - Unit: kg CO₂ eq.

ODP - Ozone layer depletion ODP steady state - Unit: kg CFC-11 eq.

POCP - Photochemical oxidation (high NO_x) - Unit: kg ethylene eq.

WP - Water Pollution - Unit: m³

France

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	45.86%	99.64%	51.83%	80.49%	63.9%	48.89%	4.21%	53.8%	48.01%
Distribution	2.59%	0.01%	2.34%	2.25%	3.39%	2.86%	0.1%	2.53%	19.61%
Use	51.22%	0.35%	45.43%	16.38%	27.94%	47.05%	95.66%	42.44%	29.89%
End of life	0.33%	0%	0.39%	0.88%	4.77%	1.19%	0.04%	1.22%	2.49%
Total	6.72	0.063	19,678	141,640	1.135	2,065.7	0.00220	0.467	127,470

CO₂ impact for the life cycle of the product:
~ 2.07 tones CO₂ equivalent

Europe

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	9.73%	99.72%	20.58%	40.69%	38.25%	20.83%	9.19%	15.55%	24.58%
Distribution	0.79%	0.01%	1.39%	1.4%	2.97%	1.55%	0.22%	1.07%	11.09%
Use	89.41%	0.27%	77.88%	57.46%	55.93%	77.12%	90.51%	83.02%	63.06%
End of life	0.07%	0%	0.16%	0.45%	2.85%	0.51%	0.08%	0.35%	1.27%
Total	31.65	0.063	49,565	280,180	1.895	4,849.80	0.00101	1.614	248,970

CO₂ impact for the life cycle of the product:
~ 4.85 tones CO₂ equivalent

North America

(based on USA data)

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	35.52%	99.91%	15.12%	22.87%	34.08%	17.67%	52.7%	24.75%	17.83%
Distribution	15.8%	0.02%	5.48%	2.07%	11.19%	5.09%	1.47%	8.33%	18.32%
Use	48.43%	0.07%	79.29%	74.82%	52.18%	76.81%	45.4%	66.36%	62.92%
End of life	0.26%	0%	0.11%	0.25%	2.54%	0.43%	0.44%	0.56%	0.92%
Total	8.67	0.062	67,477	498,550	2.127	5,716	0.00018	1.014	343,270

CO₂ impact for the life cycle of the product:
~ 5.72 tones CO₂ equivalent

South America

(based on Brazil data)

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	56.18%	99.82%	45.56%	52.91%	56.33%	37.47%	34.38%	40.87%	33.19%
Distribution	24.99%	0.02%	16.53%	4.78%	18.49%	10.8%	0.96%	13.76%	34.12%
Use	18.42%	0.16%	37.57%	41.73%	20.98%	50.82%	64.37%	44.45%	30.97%
End of life	0.41%	0%	0.34%	0.58%	4.2%	0.91%	0.29%	0.93%	1.72%
Total	5.48	0.063	22,387	215,450	1.287	2,696	0.00027	0.614	184,370

CO₂ impact for the life cycle of the product:
~ 2.70 tones CO₂ equivalent

Asia
(based on
China data)

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	26.36%	99.93%	9.14%	14.33%	25.16%	12.97%	62.83%	21.3%	13.6%
Distribution	13.61%	0.02%	3.46%	1.45%	8.75%	3.89%	1.76%	8.13%	14.38%
Use	59.83%	0.05%	87.34%	84.07%	64.21%	82.82%	34.88%	70.09%	71.32%
End of life	0.19%	0%	0.07%	0.16%	1.88%	0.32%	0.53%	0.48%	0.7%
Total	11.68	0.062	111,637	795,750	2,881	7,788	0.00015	1.179	450,070

CO₂ impact for the life cycle of the product:
~ 7.79 tones CO₂ equivalent

Japan

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	42.41%	99.92%	22.3%	34.36%	42.32%	22.26%	21.4%	28.54%	18.77%
Distribution	21.89%	0.02%	8.44%	3.47%	14.71%	6.68%	0.6%	10.89%	19.84%
Use	35.39%	0.06%	69.09%	61.79%	39.81%	70.52%	77.82%	59.92%	60.42%
End of life	0.31%	0%	0.17%	0.38%	3.16%	0.54%	0.18%	0.65%	0.97%
Total	7.26	0.062	45,737	331,750	1,713	4,538	0.00043	0.880	326,070

CO₂ impact for the life cycle of the product:
~ 4.54 tones CO₂ equivalent

Oceania
(based on
Australia
data)

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	25.53%	99.93%	9.07%	14.15%	24.34%	11.98%	51.18%	18.68%	13.31%
Distribution	14.26%	0.03%	3.95%	1.53%	9.73%	4.08%	1.47%	7.74%	15.55%
Use	60.02%	0.04%	86.92%	84.17%	64.11%	83.64%	46.92%	73.16%	70.45%
End of life	0.18%	0%	0.07%	0.16%	1.82%	0.29%	0.43%	0.42%	0.69%
Total	12.06	0.062	112,517	805,550	2,979	8,429	0.00018	1.344	459,870

CO₂ impact for the life cycle of the product:
~ 8.43 tones CO₂ equivalent

Middle East

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	42%	99.92%	19.59%	27.36%	39.68%	18.88%	38.9%	25.13%	24.31%
Distribution	10.1%	0.01%	3.42%	1.54%	6.9%	2.88%	0.99%	4.51%	16.05%
Use	47.59%	0.06%	76.84%	70.8%	50.46%	77.78%	59.78%	69.79%	58.39%
End of life	0.3%	0%	0.15%	0.3%	2.96%	0.46%	0.33%	0.57%	1.26%
Total	7.33	0.062	52,057	416,660	1,827	5,348.6	0.00024	0.999	251,770

CO₂ impact for the life cycle of the product:
~ 5.35 tones CO₂ equivalent

Africa
(based on
Egypt data)

	A	ADPe	ADPf	AP	EP	GWP	ODP	POCP	WP
Manufacturing	46.09%	99.93%	30.99%	37.49%	44.75%	21.17%	8.61%	26.66%	18.35%
Distribution	19.3%	0.02%	11.06%	3.23%	14.07%	6.01%	0.24%	8.49%	18.65%
Use	34.27%	0.05%	57.72%	58.87%	37.84%	72.3%	91.08%	64.25%	62.06%
End of life	0.33%	0%	0.23%	0.41%	3.34%	0.52%	0.07%	0.61%	0.95%
Total	6.68	0.062	32,917	304,060	1,62	4,772	0.00107	0.942	333,570

CO₂ impact for the life cycle of the product:
~ 4.77 tones CO₂ equivalent



With a firm belief that every person and community should have access to the best possible care, Getinge provides hospitals and life science institutions with products and solutions aiming to improve clinical results and optimize workflows. The offering includes products and solutions for intensive care, cardiovascular procedures, operating rooms, sterile reprocessing and life science. Getinge employs over 10,000 people worldwide and the products are sold in more than 135 countries.

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