

# Product Sustainability Report (PSR) Assortment 2025



# Product Sustainability Report (PSR)

The Product Sustainability Report (PSR) provides information about the sustainable aspects of the relevant product category. This is based on extensive environmental data from detailed life cycle assessments (LCAs).

## Life cycle assessment (LCA)

under DIN EN ISO 14040

## Tools

SimaPro, EcoInvent, UVEK environmental database

## Perspectives

Cradle-to-cradle and cradle-to-gate; assessment based on three methods: CO<sub>2</sub> footprint measured in CO<sub>2</sub>, the ecological scarcity method measured in environmental impact points and the monetary equivalent value method measured in Swiss francs (CHF).

## Category

Ovens

## Issued by

V-ZUG AG, Industriestrasse 66,  
6302 Zug, Switzerland

## Verified by

Carbotech AG, environmental projects and consultancy, Gasometerstrasse 9, 8005 Zurich, Switzerland



# Table of contents

<b>About V-ZUG</b>	<b>Page 5</b>
<b>Sustainability at V-ZUG</b>	<b>Page 8</b>
<b>Durability, reparability and customer loyalty</b>	<b>Page 10</b>
<b>Results of life cycle assessments</b>	<b>Page 11</b>
<b>Ovens</b>	<b>Page 12</b>
Results of life cycle assessments (LCA)	Page 13
V-ZUG's contribution to boosting the sustainability of products	Page 16
Users' contribution to boosting the sustainability of products	Page 18
Summary	Page 19
<b>Steamers</b>	<b>Page 20</b>
Results of life cycle assessments (LCA)	Page 21
V-ZUG's contribution to boosting the sustainability of products	Page 23
Users' contribution to boosting the sustainability of products	Page 25
Summary	Page 26
<b>Dishwasher</b>	<b>Page 27</b>
Results of life cycle assessments (LCA)	Page 28
V-ZUG's contribution to boosting the sustainability of products	Page 31
Users' contribution to boosting the sustainability of products	Page 33
Summary	Page 34
<b>Coolers</b>	<b>Page 35</b>
Results of life cycle assessments (LCA)	Page 36
V-ZUG's contribution to boosting the sustainability of products	Page 39
Users' contribution to boosting the sustainability of products	Page 41
Summary	Page 42
<b>Hobs</b>	<b>Page 43</b>
Results of life cycle assessments (LCA)	Page 44
V-ZUG's contribution to boosting the sustainability of products	Page 48
Users' contribution to boosting the sustainability of products	Page 50
Summary	Page 51
<b>Range hoods</b>	<b>Page 52</b>
Results of life cycle assessments (LCA)	Page 53
V-ZUG's contribution to boosting the sustainability of products	Page 56
Users' contribution to boosting the sustainability of products	Page 57
Summary	Page 59

# Inhaltsverzeichnis

## **Extra products**

Coffee machines

Drawers

Microwave ovens

V-ZUG's contribution to boosting the sustainability of products

**Page 60**

Page 61

Page 63

Page 65

Page 68

## **Washing machines**

Results of life cycle assessments (LCA)

V-ZUG's contribution to boosting the sustainability of products

Users' contribution to boosting the sustainability of products

Summary

**Page 69**

Page 70

Page 73

Page 74

Page 75

## **Dryers**

Results of life cycle assessments (LCA)

V-ZUG's contribution to boosting the sustainability of products

Users' contribution to boosting the sustainability of products

Summary

**Page 76**

Page 77

Page 80

Page 81

Page 82

# About V-ZUG

We have been developing, creating and producing appliances that bring simplicity into our customers' homes and creativity into their kitchens since the company was founded in Zug in 1913.

Our responsible approach to manufacturing high-precision and long-lasting products allows us to make an active contribution to a sustainable future.

V-ZUG has branches in the EU, the UK, China, Hong Kong, Singapore and Australia and distribution partners all over the world, but production takes place in Switzerland, and this is where the decisions are made. V-ZUG currently employs a total of around 2,200 people. Organisationally, it consists of the segments Household Appliances and Real Estate.



## Timeless design

Our design language is unobtrusive, timeless and reduced to the essentials. It is uncompromising in terms of quality, the materials used and sustainability. We have carefully formulated the user's interaction with our products in great detail to make it as intuitive as possible and create an emotional connection with our products. That is Swiss quality.

## Meaningful innovation

We work tirelessly to find solutions that will make our customers' everyday household tasks easier and deliver perfect results.

We are renowned for our innovative products and attach great importance to their user-friendliness, durability, reliability, performance and energy efficiency. Thanks to our proximity to customers, we are able to develop the right programmes and functions to achieve perfect results, allowing us to make their everyday household tasks easier.

## Service

Our qualified service team assists our customers throughout their journey with V-ZUG – from choosing the right appliance for their needs to troubleshooting in the event of an issue, error report or code. We guarantee our customers the help they need.

Every day, we give our all to ensure customers are satisfied with our products and receive the best service. With more than 700 service experts around the globe, we are there for our customers whenever they need us.



## Swiss origins

We proudly bear our company's location in our brand name and are acutely aware of the responsibility we bear to our environment. We reflect on our actions and the consequences of these for people and resources in our environment and are committed to ongoing investment in a sustainable future. We are here to stay.

### **Production location in Zug, headquarters, vertical factory**

We have made a conscious decision to remain true to our long-standing production location in Switzerland. To ensure we are optimally prepared for the future, we are part of a visionary urban manufacturing project: the Tech Cluster Zug. Because we are striving tirelessly to achieve state-of-the-art production facilities and improve our environmental footprint, we have not only built our own vertical factory, but also a Multi-Energy Hub.

### **Production location in Sulgen, the most state-of-the-art refrigerator factory in Europe**

We are proud to have opened Europe's most state-of-the-art refrigerator factory in Sulgen in 2022. Here, both products and processes are geared towards maximum sustainability – be it with regard to the energy efficiency of the appliance or the CO<sub>2</sub> neutrality of the production set-up.

### **Swiss Made**

V-ZUG produces more than 80% of the appliances it sells in Switzerland in Zug and Sulgen (2023: 82%, Swiss market). All appliances manufactured in Switzerland meet the strict Swiss Made requirements (i.e. > 60% value generated in Switzerland) and are certified accordingly (Swiss Made, protected designation).

We also have at our disposal a key network of suppliers. More than 60% of our suppliers are based in Switzerland, 30% in neighbouring countries (primarily Italy, Austria, Germany) and roughly 10% are from Asia (primarily electronics).



# Sustainability at V-ZUG

**Sustainability.** We see it as the driving force behind the development of our products, the services we offer, the way in which we manufacture, and how we contribute to a society that is fit for the future. Sustainability at V-ZUG comprises three dimensions:



## People

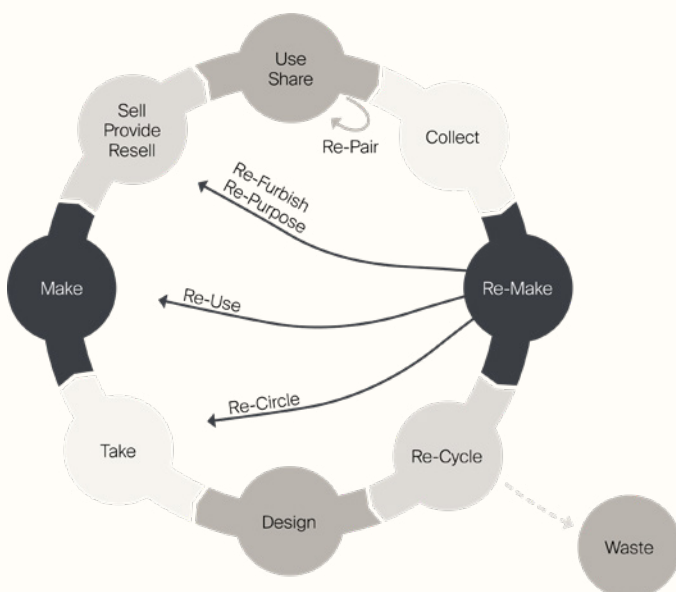
Our commitment to our employees and our environment is our top priority – we never cease to invest in these. The wellbeing of our employees, our customers and society as a whole is the driving force behind our aspirations and big ambitions for positive change.

## Planet

We manufacture ultra sustainable appliances with the utmost efficiency. We boost the circular economy and our production processes have been CO<sub>2</sub>-neutral since 2020, all the while staying true to our motto: achieve the goal first, talk about it later.

## Profit

Our success is based on quality, design and durability. These values are reflected in our projects too. Far from being geared towards short-term profit maximisation, they will secure the future of our company for generations to come.



## The circular economy

For us, a sustainable product starts at the development stage. This early stage is where we can most effectively influence its “long-term” sustainability. This is when we concentrate on aspects like the durability and reparability of the appliances, low energy and water consumption in use, material selection and modular design – all very much with the circular economy in mind.

**We have encapsulated our commitment to sustainability in four targets which provide the framework for our goals, activities and reporting.**

#### **Products and services for a future-fit society**

Producing an energy-efficient appliance is just one of many sustainability aspects. We think ahead. From procurement, development and manufacturing and servicing right through to re-use and recycling, sustainability throughout the entire life cycle of the appliance is more than just a consideration for us: it is the goal. Measurable, definable and achievable.

#### **Resilient and committed employees**

A workforce we care about and whose work is close to our heart. The quality of our products depends on our employees. That is why we incorporate them in the strategic direction of the company, promoting an open, fair and safe working environment, encouraging and facilitating life-long learning and offering a wide range of advancement opportunities.

#### **Environment and climate protection**

Thanks to extensive research, measurements, analysis and investment, we have reduced and offset our CO<sub>2</sub> footprint. Our manufacturing operations have been entirely carbon-neutral since 2020. With an internal CO<sub>2</sub> levy, pioneering carbon dioxide reduction initiatives, a life-cycle analysis as well as a reforestation programme we are pursuing real sustainability and setting an example for others.

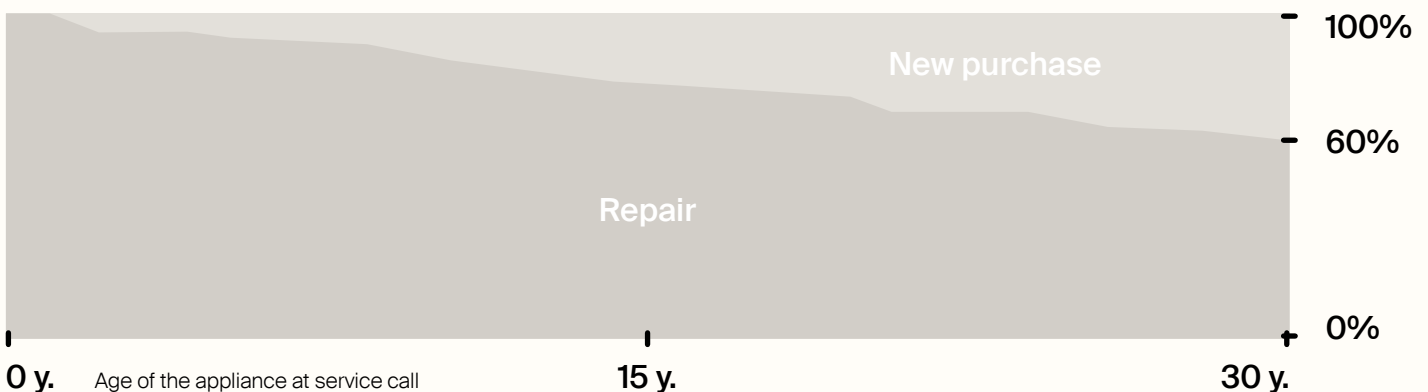
#### **Entrepreneurship for sustainable prosperity**

We are committed to our Swiss location and have invested over 50 million Swiss francs a year in our local production infrastructure in the last three years alone. Our quest for profit, our business partnerships and our entire management set-up are geared towards ethical and sustainable practice and fall in line with our binding code of conduct.



# Durability, repairability and customer loyalty

To make a statement about durability, repairability and customer loyalty, we analysed our service data across all product categories for 2023 in more detail. Our service technicians were called out for services over 200,000 times (appliance defective). In each case, we looked at how old the appliance was at the time, whether we could still repair it and whether the customer still wanted to repair it or replace it with a new one.



## Results:

- In 43% of cases, the appliances were older than 10 years – the repair rate for 10 years is 90%.
- In 20% of cases, the appliances were older than 15 years – the repair rate at 15 years is 80%.
- In 6% of cases, the appliances were 20 years or older – the repair rate at 20 years is 75% and at 30 years it is still over 60%.
- The oldest appliance (washing machine) was 44 years old; the customer still wanted to repair and we were able to do so (spare part and expertise were still available).
- The result only reflects appliances we were able to assess because of a service call. Not shown here are appliances in good working order and those replaced straight away because of their already advanced age.

## Conclusion:

- Our appliances have a very long service life.
- We can perform repairs even on older appliances (spare parts availability and service expertise)
- The repair service is attractively priced. The majority opt for repair and continue to do so over a long service life.
- Customers are happy to repair because they are very satisfied with the product. Otherwise, they would change appliance or even brand.
- Note: repairing a 25-year-old washing machine makes only limited sense, as the energy efficiency of the successor would be much better and offset embodied energy relatively quickly. Of course, the customer's wishes always come first.
- For perspective: approx. 60% of V-ZUG's appliances on the Swiss market are serviced by V-ZUG's own service department (there are approx. 5.7 million VZ appliances on the market).

# Results of life cycle assessments (LCA)

**Life cycle assessments are carried out using three different methods/perspectives.**

## **CO<sub>2</sub> footprint in CO<sub>2</sub>e/kg:**

greenhouse gases differ in their global warming potential (GWP). The climate impact of carbon dioxide (GWP of CO<sub>2</sub> is equal to 1) serves as a benchmark, i.e. the global warming potential of other substances are measured relative to CO<sub>2</sub>. The GWP value/CO<sub>2</sub> equivalent indicates the global warming potential of a substance and thus its contribution to the warming of the atmospheric boundary layer.

## **Environmental impact points:**

The method of ecological scarcity provides a comprehensive picture of the environmental footprint and, in addition to the greenhouse gas potential, includes other impact categories such as noise, water, land use, acidification of the soil, toxicity to humans and ecosystems, etc. This method was introduced by the Federal Office for the Environment in Switzerland in 2011 and is constantly being adapted to take into account new findings. The unit is environmental impact points.

## **Monetary equivalent in CHF:**

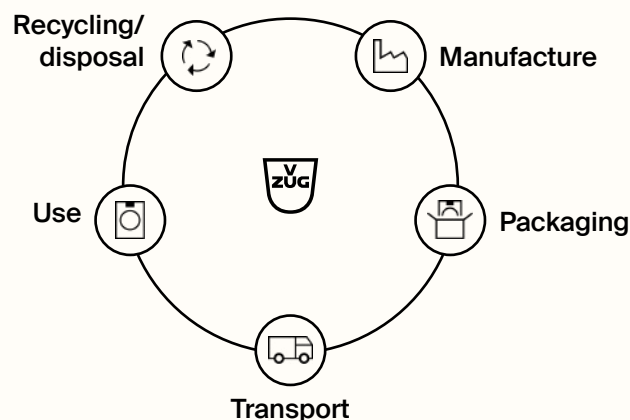
In cooperation with the Lucerne University of Applied Sciences and Arts (HSLU), V-ZUG has developed a method that shows the environmental costs which, along with the footprint, serve as a basis for the life cycle assessment (in environmental impact points). In most cases, these costs are borne by society. The value is expressed in Swiss francs and is included as a shadow price in V-ZUG's business case considerations.

## **Important note:**

the ecological footprint in the use phase depends largely on the usage behaviour (programme selection, intensity, care, etc.), as well as the electricity mix used.

## **Scope of life cycle assessments:**

Life cycle assessments cover the entire product life cycle from production, packaging, use and transport to recycling/disposal (cradle-to-cradle). The "manufacturing" section (also known as grey energy) includes all the materials used as well as the manufacturing process (cradle-to-gate).



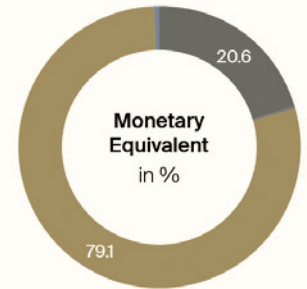
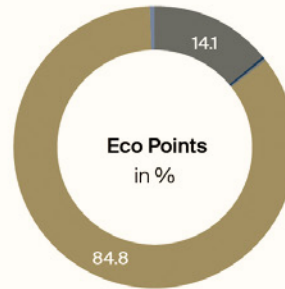
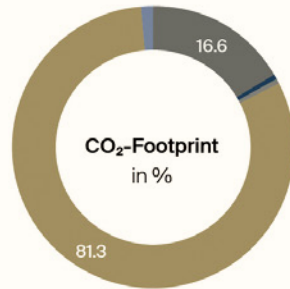
# Category: ovens





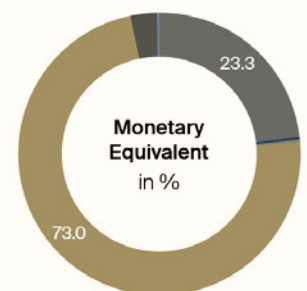
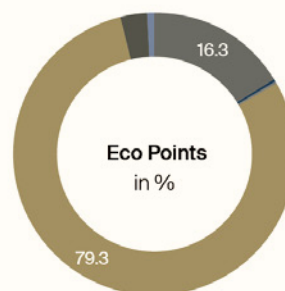
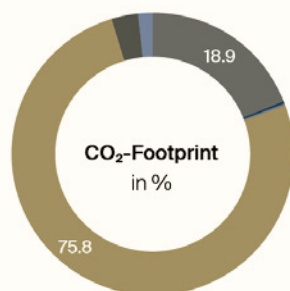
# Life cycle assessments (LCA)

Combair V4000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>16.6   145</b>	<b>14.1   372,000</b>	<b>20.6   185</b>
● Packaging	0.6   5	0.3   7,530	0.0   0
● Transport	0.3   2	0.3   3,850	0.1   1
● Use - Electricity	81.3   710	84.8   2,230,000	79.1   710
● Recycling/Disposal	1.2   11	0.5   13,773	0.2   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   873</b>	<b>100.0   2,627,153</b>	<b>100.0   898</b>

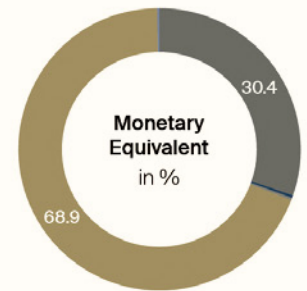
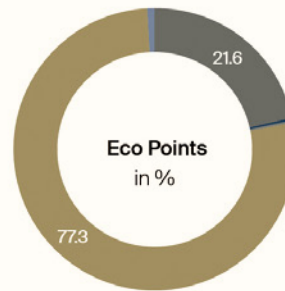
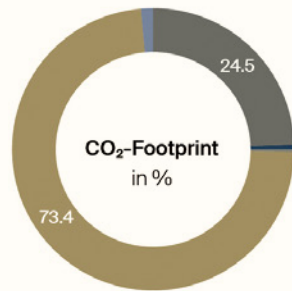
Combair V4000 (with pyrolytic self-cleaning)



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>18.9   177</b>	<b>16.3   457,000</b>	<b>23.3   226</b>
● Packaging	0.5   5	0.3   7,530	0.3   3
● Transport	0.2   2	0.3   4,120	0.2   2
● Use - Electricity	75.8   710	79.3   2,230,000	73.0   710
● Use - Electricity cleaning	3.1   29	3.2   90,200	3.0   29
● Recycling/Disposal	1.5   14	0.6   17,437	0.2   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   937</b>	<b>100.0   2,806,277</b>	<b>100.0   972</b>

# Life cycle assessments (LCA)

CombairSteamer V2000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>24.5   194</b>	<b>21.6   508,000</b>	<b>30.4   256</b>
● Packaging	0.6   5	0.3   7,530	0.3   3
● Transport	0.3   2	0.2   4,060	0.2   2
● Use - Electricity	73.4   581	77.3   1,820,000	68.9   580
● Use - Water	0.0   0	0.0   427	0.0   0
● Recycling/Disposal	1.2   10	0.6   13,715	0.2   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   792</b>	<b>100.0   2,353,732</b>	<b>100.0   842</b>

The values of the different models and items vary due to slight differences in design and energy efficiency.

Please refer to the technical data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-Forest (high-quality reforestation))
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)



### Specific factors for ovens:

- **Timeless design** prevents premature replacement thanks to aesthetics that do not lose their appeal.
- **High-quality materials:**
  - Interior made from European stainless steel.
  - Solid, sturdy handle made from aluminium (made from recycled material in the Advanced Line).
  - Durable, resistant mirror glass with high-end appearance.
  - Solid door with stainless steel frame and triple glazing.
  - Doors can be dismantled for easy cleaning.
  - High-quality door hinges
- **EcoStandby function:** you can achieve the lowest power consumption by choosing the user setting “Hide clock”.
- **Ecological functions** such as “EcoManagement” and “hot air eco”, “top/bottom heat eco” enable economic use.
- Regeneration function: tasty preparation of leftovers prevents **food waste** (only with the ComhairSteamer variant).
- **Healthy cooking:** Electronic Steam System (ESS) ensures efficient steam generation and excellent cooking results. Food is heated quickly and gently with steam, while preserving most of its vitamins, minerals, trace elements and flavours (only with the ComhairSteamer variant).



# Your contribution to a more sustainable use of our appliances

A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:

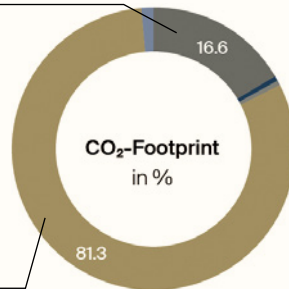
- **Use leftover heat:** for operating times of 30 minutes or more, switch off the appliance 5-10 minutes before the end of operation.
- Only **preheat** the appliance if this is all the cooking or baking result requires.
- Keep **preheating time to a minimum**.
- **Avoid frequent opening** of the appliance door.
- The applications “hot air humid” and in particular “hot air eco” and “top/bottom heat eco” require less energy than the conventional **operating modes**.
- **Lights** should only be switched on when you need them.
- Use the **EcoStandby** function (hide clock) to achieve the lowest possible power consumption.
- By **consuming** seasonal, regional, unprocessed, plant-based, organic foods and reducing the number of meat-based meals you eat and avoiding food waste, you can shrink your personal carbon footprint.
- **Regeneration, not food waste:** leftover food can be reheated to the highest quality using the regeneration function, thereby avoiding food waste (with ComhairSteamer models).
- Use the additional function “**EcoManagement**” and optimise preparation methods for low energy consumption where possible. This shows the average energy consumption of the last 25 operations, the total energy consumption for the last month, the total energy consumption for the last year and the total energy consumption.
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG’s CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

Manufacture is influenced primarily by V-ZUG

Use is influenced primarily by the user



Comhair V4000	in %	in kg CO <sub>2</sub> e
● <b>Manufacturing (cradle-to-gate)</b>	<b>16.6</b>	<b>145</b>
● Packaging	0.6	5
● Transport	0.3	2
● Use - Electricity	81.3	710
● Recycling/Disposal	1.2	11
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>	<b>873</b>

Solid, durable aluminium handle

Solid door with stainless steel frame, triple glazing, easy to clean, high-quality hinges

EcoManagement promotes ecological use

EcoStandby for maximum power saving in standby

Durable, resistant mirror glass with high-end appearance

Timeless design prevents premature replacement

Interior made from high-quality European stainless steel

“Hot air eco” and “top/bottom heat eco” functions save energy

Regeneration function: tasty preparation of leftovers prevents food waste \*

Gentle, healthy cooking with precision steam \*

\* Only with the ComhairSteamer model

## Facts

- Swiss Made
- Focus on quality, durability and energy efficiency
- Designed for reparability and the circular economy
- State-of-the-art production facilities in Zug and Sulgen
- Responsible supply chains
- Resilient and committed employees

# Category: steamers



# Results of life cycle assessments (LCA)

**Product category:** Steamers

**Product name:** Steamer, CombiSteamer, CombiSteamer

**Energy labels (EU):** see specific product, predominantly A

**Recycling quota\*:** 74 – 80%

**Recovery quota\*:** 80 – 88% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Sens Foundation recycling quota for the white goods appliances category (washing machines, ovens, range hoods, etc.):**

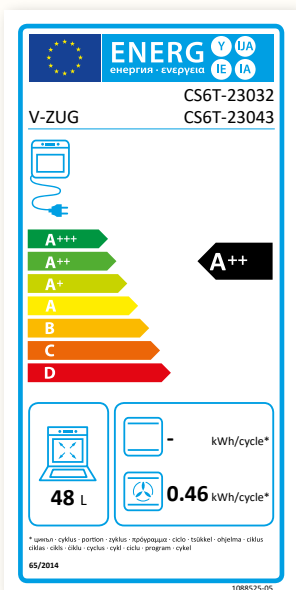
73% (according to 2024 annual report)

**Underlying data for the life cycle assessment**

**Country of manufacture <sup>1)</sup>:** Switzerland

**Country of use <sup>2)</sup>:** Switzerland

**Electricity mix <sup>3)</sup>:** as per Swiss average: 181 g CO<sub>2</sub>/kWh



Example for CombiSteamer V6000.

All other energy labels are available at [vzug.com](http://vzug.com)

**User behaviour <sup>4)</sup>:**

CombiSteamer: 27x per year hot air 180°C for 45 min and 73x per year steaming at 100°C for 40 min, for a period of 17 years<sup>5)</sup>

CombiSteamer: 31x per year hot air 180°C for 45 min, 45x per year top/bottom heat 200°C for 45 min, and 25x per year steaming at 100°C for 40 min, for a period of 17 years<sup>5)</sup>

**Underlying data background:**

1) All appliances with the Swiss Made designation are manufactured in Switzerland. That applies to all steamers.

2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.

3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation.

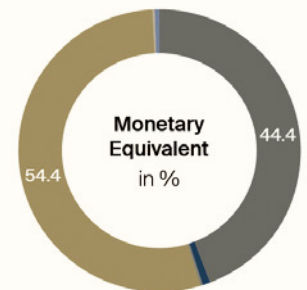
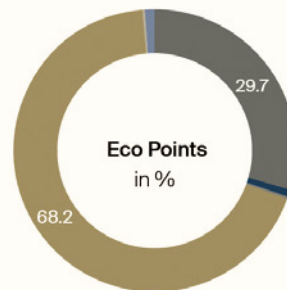
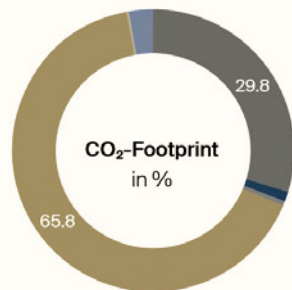
The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.

4) Usage behaviour: theoretical usage behaviour based on internal definitions is used for calculation. Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity and programme selection influenced the result considerably.

5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. In addition to the lifespan in years (17 years for ovens/steamers), the number of cycles is also considered. But the lifespan in years depends on a number of different factors, intensity of use and care being the most crucial. The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to reparability (availability of spare parts and repair expertise in the service department).

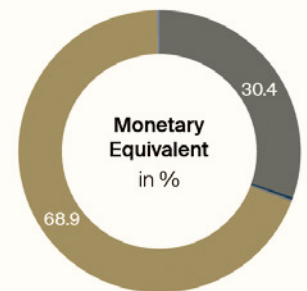
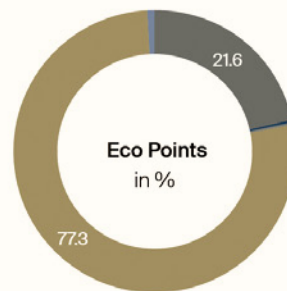
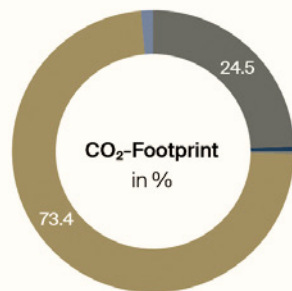
# Life cycle assessments (LCA)

CombiSteamer V6000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>29.8   123</b>	<b>29.7   372,000</b>	<b>44.4   222</b>
● Packaging	1.1   5	0.6   7,100	0.6   3
● Transport	0.5   2	0.3   3,700	0.3   1
● Use - Electricity	65.8   272	68.2   853,000	54.4   272
● Use - Water	0.1   0	0.1   897	0.1   0
● Recycling/Disposal	2.7   11	1.1   14,164	0.4   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   413</b>	<b>100.0   1,250,861</b>	<b>100.0   500</b>

CombairSteamer V2000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>24.5   194</b>	<b>21.6   508,000</b>	<b>30.4   256</b>
● Packaging	0.6   5	0.3   7,530	0.3   3
● Transport	0.3   2	0.2   4,060	0.2   2
● Use - Electricity	73.4   581	77.3   1,820,000	68.9   580
● Use - Water	0.0   0	0.0   427	0.0   0
● Recycling/Disposal	1.2   10	0.6   13,715	0.2   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   792</b>	<b>100.0   2,353,732</b>	<b>100.0   842</b>

The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical

data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-For-est (high-quality reforestation)
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)



### Specific factors for steamers:

- **Timeless design** prevents premature replacement thanks to aesthetics that do not lose their appeal.
- **Healthy cooking:** Electronic Steam System (ESS) ensures efficient steam generation and excellent cooking results. Food is heated quickly and gently with steam, while preserving most of its vitamins, minerals, trace elements and flavours.
- **High-quality materials:**
  - Interior made from European **stainless steel**
  - Solid, durable **handle** made from aluminium
  - Durable, resistant **mirror glass** with high-end appearance
  - **Solid door** with stainless steel frame and triple glazing
  - **Doors can be dismantled** for easy cleaning
  - High-quality **door hinges**
- **Regeneration function:** tasty preparation of leftovers prevents food waste.
- **EcoStandby function:** you can achieve the lowest power consumption by choosing the user setting "Hide clock".
- **Ecological functions** such as EcoManagement and hot air eco enable economic use.



# Your contribution to a more sustainable use of our appliances

A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:

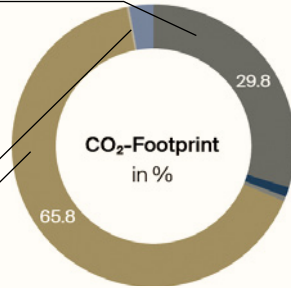
- **Use leftover heat:** for operating times of 30 minutes or more, switch off the appliance 5-10 minutes before the end of operation.
- Only **preheat** the appliance if this is all the cooking or baking result requires.
- Keep **preheating time to a minimum**.
- Avoid frequent opening **of the appliance door**.
- The **applications** “hot air humid” and in particular “hot air eco” require less energy than the application “hot air”
- **Lights** should only be switched on when you need them.
- **Use the EcoStandby function** (hide clock) to achieve the lowest possible power consumption
- By **consuming** seasonal, regional, unprocessed, plant-based, organic foods and reducing the number of meat-based meals you eat and avoiding food waste, you can shrink your personal carbon footprint.
- **Regeneration, not food waste:** Leftover food can be reheated to the highest quality using the regeneration function, thereby avoiding food waste.
- **Use the additional function “EcoManagement”** and optimise preparation methods for low energy consumption where possible. This shows the average energy consumption of the last 25 operations, the total energy consumption for the last month, the total energy consumption for the last year and the total energy consumption.
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG's CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

Manufacture is influenced primarily by V-ZUG

Use is influenced primarily by the user



CombiSteamer V6000	in kg in %   CO <sub>2</sub> e	
● <b>Manufacturing (cradle-to-gate)</b>	<b>29.8</b>	<b>123</b>
● Packaging	1.1	5
● Transport	0.5	2
● Use - Electricity	65.8	272
● Use - Water	0.1	0
● Recycling/Disposal	2.7	11
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>	<b>413</b>

Regeneration function: tasty preparation of leftovers prevents food waste

Timeless design prevents premature replacement

Solid, durable aluminium handle

Interior made from high-quality European stainless steel

Solid door with stainless steel frame, triple glazing, easy to clean, high-quality hinges

“Hot air eco” function saves energy

Eco Management promotes ecological use

Gentle, healthy cooking with precision steam

EcoStandby for maximum power saving in standby

Durable, resistant mirror glass with high-end appearance



## Facts

- Swiss Made
- Focus on quality, durability and energy efficiency
- Designed for reparability and the circular economy
- State-of-the-art production facilities in Zug and Sulgen
- Responsible supply chains
- Resilient and committed employees

# Category: Dishwasher



# Results of life cycle assessments (LCA)

**Product category:** Dishwashers

**Product name:** AdoraDish

**Energy labels (EU):** see specific product, predominantly A

**Recycling quota\*:** 73 – 79%

**Recovery quota\*:** 83 – 87% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Sens Foundation recycling quota for the white goods appliances category (washing machines, ovens, range hoods, etc.):**

73% (according to 2024 annual report)

**Underlying data for the life cycle assessment**

**Country of manufacture <sup>1)</sup>:** Switzerland

**Country of use <sup>2)</sup>:** Switzerland

**Electricity mix <sup>3)</sup>:** as per Swiss average: 181g CO<sub>2</sub>/kWh

**User behaviour:** 280 cycles per year <sup>4)</sup>, over 17 years, more than 5,000 cycles <sup>5)</sup> (programme mix: 100% Eco programme, declaration programme)

Underlying data background:

1) All appliances with the Swiss Made designation are manufactured in Switzerland. That applies to all Adora dishwashers.

2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.

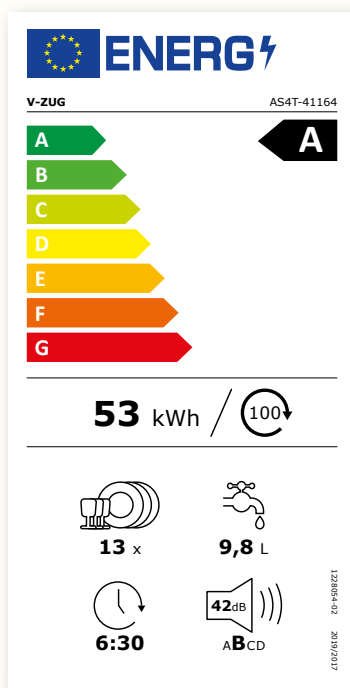
3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation.

The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.

4) Usage behaviour: theoretical usage behaviour based on internal definitions is used for calculation. Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity and programme selection influenced the result considerably.

5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. As well as the lifespan in years, the number of cycles is relevant as well. But the lifespan in years depends on a number of different factors, intensity of use and care being the most crucial.

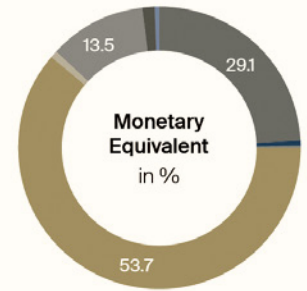
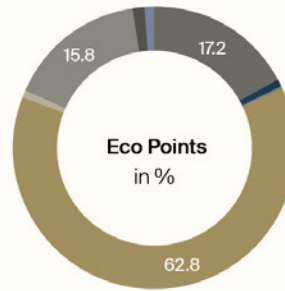
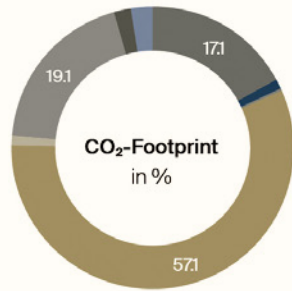
The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to repairability (availability of spare parts and repair expertise in the service department).



Example for AdoraDish V4000. All other energy labels are available at [vzug.com](http://vzug.com)

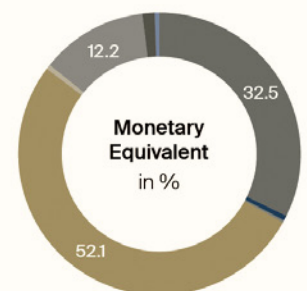
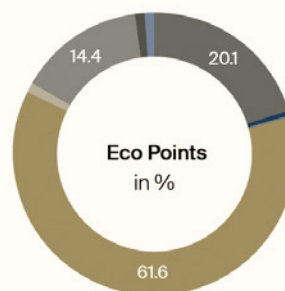
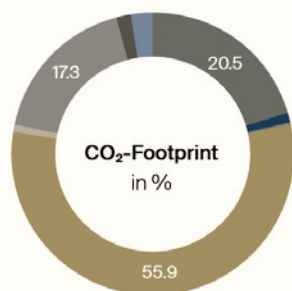
# Life cycle assessments (LCA)

AdoraDish V2000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>17.1   137</b>	<b>17.2   395,000</b>	<b>29.1   248</b>
● Packaging	1.1   9	0.6   14,400	0.6   5
● Transport	0.3   2	0.2   4,260	0.2   2
● Use - Electricity	57.1   458	62.8   1,440,000	53.7   458
● Use - Water	1.1   8	1.0   23,900	0.9   7
● Use - Detergent	19.1   153	15.8   362,700	13.5   115
● Effect of detergent in water	1.9   15	1.3   30,700	1.6   14
● Recycling/Disposal	2.4   19	1.0   21,838	0.4   3
<b>Total (cradle-to-cradle)</b>	<b>100.0   802</b>	<b>100.0   2,292,798</b>	<b>100.0   852</b>

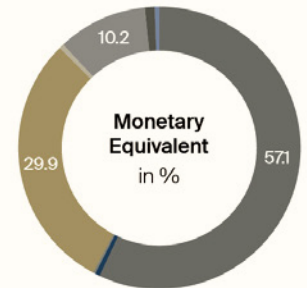
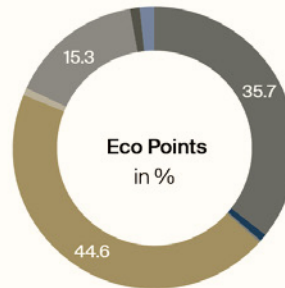
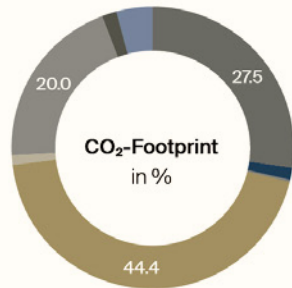
AdoraDish V4000 (with OptiLift)



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>20.5   181</b>	<b>20.1   506,000</b>	<b>32.5   308</b>
● Packaging	1.0   9	0.6   14,300	0.5   5
● Transport	0.3   3	0.2   4,740	0.2   2
● Use - Electricity	55.9   493	61.6   1,550,000	52.1   493
● Use - Water	0.9   8	0.9   22,700	0.7   7
● Use - Detergent	17.3   153	14.4   362,700	12.2   115
● Effect of detergent in water	1.6   14	1.2   29,200	1.4   13
● Recycling/Disposal	2.5   22	1.0   25,433	0.4   4
<b>Total (cradle-to-cradle)</b>	<b>100.0   883</b>	<b>100.0   2,515,073</b>	<b>100.0   947</b>

# Life cycle assessments (LCA)

AdoraDish V6000 (with heath pump)



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>27.5   211</b>	<b>35.7   849,000</b>	<b>57.1   644</b>
● Packaging	1.3   10	0.7   16,700	0.5   6
● Transport	0.4   3	0.2   5,120	0.2   2
● Use - Electricity	44.4   337	44.6   1,060,000	29.9   337
● Use - Water	1.0   7	0.9   21,000	0.6   7
● Use - Detergent	20.0   153	15.3   362,700	10.2   115
● Effect of detergent in water	1.7   13	1.1   27,000	1.1   12
● Recycling/Disposal	4.1   32	1.5   35,222	0.4   5
<b>Total (cradle-to-cradle)</b>	<b>100.0   766</b>	<b>100.0   2,376,742</b>	<b>100.0   1,128</b>

The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-For-est (high-quality reforestation)
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)



### Specifically for the Adora dishwasher:

- Built-in **heat pump** for increased energy efficiency in all programmes (V6000 model).
- **Eco programme** – the most energy-efficient programme for daily/nightly use.
- Use of **CO<sub>2</sub>-reduced stainless steel** for interior parts (material has 10x lower emissions than industry standard).
- **EcoManagement** (preview of water consumption and energy consumption). Helps with the programme selection and facilitates ecological use.
- **Push notifications** from the V-ZUG app and list feature for energy and water consumption.
- Use of high-quality **bitumen insulation** for the drum reduces energy consumption by 6%.
- **Water storage tank** reduces water consumption to record level. Rinsing water is stored and reused for pre-cleaning in the next wash cycle (V6000 model).
- Hot water connection **option**: reduced electricity consumption linked to how the hot water is prepared (ideally with solar energy).
- Partial load **feature**: if the dishwasher is only half filled but you want to put it on, the water and energy amount is automatically adapted to the half load (energy and water economy).
- OptiStart **feature**: uses the time prior to the start of the programme for soaking. Soaking the dishes enables the temperature of the programme to be reduced. (Energy savings of up to 10% possible).

- **Automatic programme**: sensors measure the degree of soiling in the dishes during the wash cycle and the programme runs only for as long as is necessary. The idea is to save electricity, water and regenerating salt (reduction of up to 30% possible depending on the degree of soiling).
- AutoOpen **feature**: once the process finishes, the door is automatically opened, aiding drying – sparing the need for an electrical consumer (fan for drying).



# Your contribution to a more sustainable use of our appliances

A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:

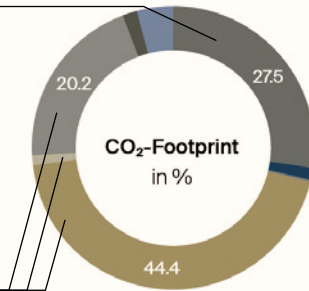
- **Do not pre-rinse dishes**, simply dispose of coarse food residue in the bin. Hand rinsing requires a lot of energy and water.
- Use the energy-saving programme **wherever possible**. This takes longer, but consumes much less electricity and water because it makes use of soaking time. This saves energy. Ideally, let the programme run overnight.
- Compare the electricity and water consumption of the individual programmes and **make an informed decision** (note EcoManagement) as to which programme is required given the degree of soiling and urgency.
- Fill the **dishwasher before running**. If necessary, use the pre-rinse function if it takes longer to fill the dishwasher completely (prevents unnecessary sticking). Or use the **partial load feature** if you still don't want the dishwasher to run fully loaded (water and energy are reduced).
- Take care when **dosing**. Avoid overdosing.
- **Use intensive programmes for heavily soiled** dishes only. The energy and water consumption is much higher than with the standard programmes. These are sufficient for general use.
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG's CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

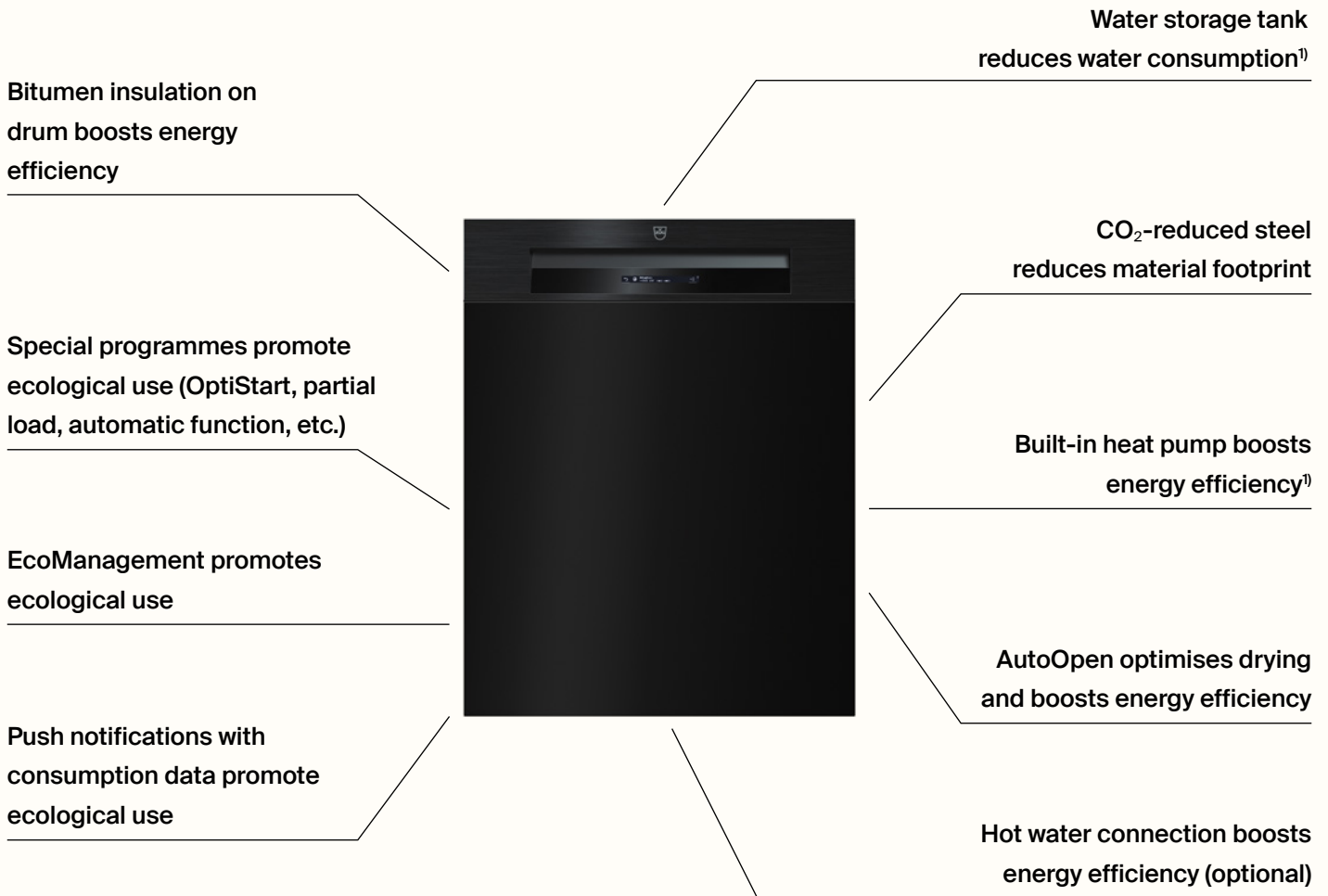
Manufacture is influenced primarily by V-ZUG

Use is influenced primarily by the user



AdoraDish V6000 (with heath pump)

● Manufacturing (cradle-to-gate)	27.5		211
● Packaging	1.3		10
● Transport	0.4		3
● Use - Electricity	44.4		337
● Use - Water	1.0		7
● Use - Detergent	20.0		153
● Effect of detergent in water	1.7		13
● Recycling/Disposal	4.1		32
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>		<b>766</b>



<sup>1)</sup>V6000 model

## Facts

- Swiss Made
- Focus on quality, durability and energy efficiency
- Designed for reparability and the circular economy
- State-of-the-art production facilities in Zug and Sulgen
- Responsible supply chains
- Resilient and committed employees

Category: coolers



# Results of life cycle assessments (LCA)

**Product category:** Cooling

**Product name:** CombiCooler V2000,  
Cooler V2000, WineCooler V4000

**Energy labels (EU):** see specific product, varies depending on C-G model

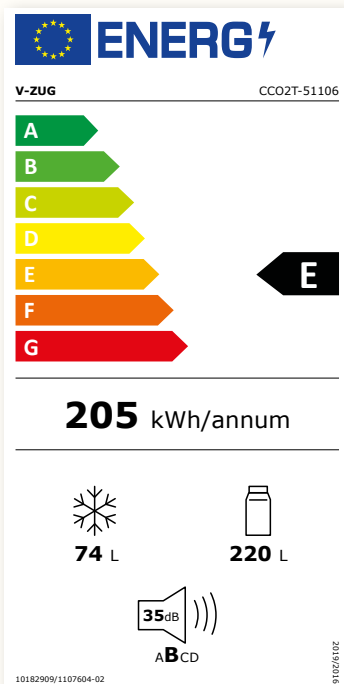
**Recycling quota\*:** 69 – 93%

**Recovery quota\*:** 91 – 97% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Stiftung Sens recycling quota for the refrigeration category:**

83% (according to 2024 annual report)



Example for CombiCooler V2000.

All other energy labels are available at [vzug.com](http://vzug.com)

**Underlying data for the life cycle assessment**

**Country of manufacture <sup>1)</sup>:** Switzerland

**Country of use <sup>2)</sup>:** Switzerland

**Electricity mix <sup>3)</sup>:** as per Swiss average:  
181g CO<sub>2</sub>/kWh

**User behaviour:** normal use based on declaration data for annual use <sup>4)</sup> over 12 years <sup>5)</sup>

**Underlying data background:**

1) All appliances with the Swiss Made designation are manufactured in Switzerland.

2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.

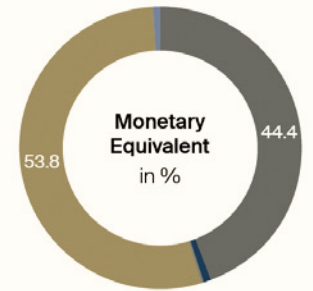
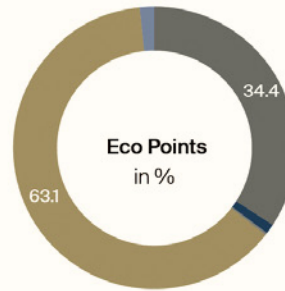
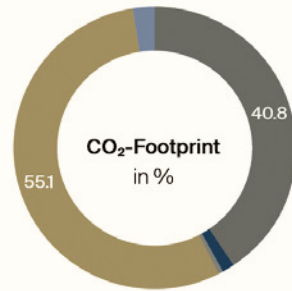
3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation. The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.

4) Usage behaviour: theoretical usage behaviour based on internal definitions is used for calculation. Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity influences the result considerably.

5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. But, in reality, the lifespan depends on a number of different factors, intensity of use and care being the most crucial. The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to repairability (availability of spare parts and repair expertise in the service department).

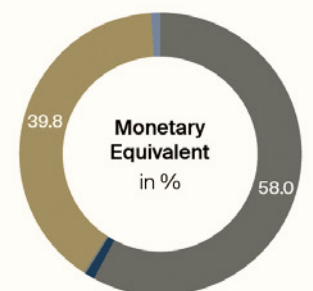
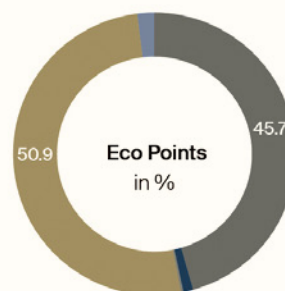
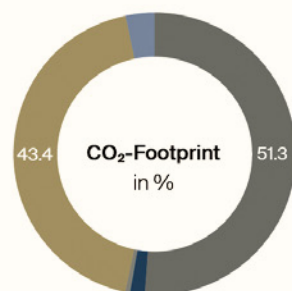
# Life cycle assessments (LCA)

## CombiCooler V2000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>40.8   331</b>	<b>34.4   762,000</b>	<b>44.4   369</b>
● Packaging	1.4   11	0.9   19,200	0.8   7
● Transport	0.4   3	0.2   5,360	0.2   2
● Use - Electricity	55.1   447	63.1   1,400,000	53.8   447
● Recycling/Disposal	2.4   20	1.4   31,602	0.8   7
<b>Total (cradle-to-cradle)</b>	<b>100.0   812</b>	<b>100.0   2,218,162</b>	<b>100.0   831</b>

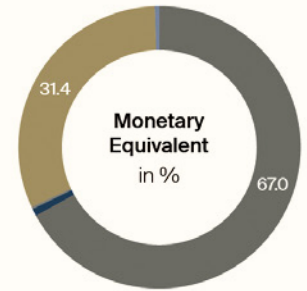
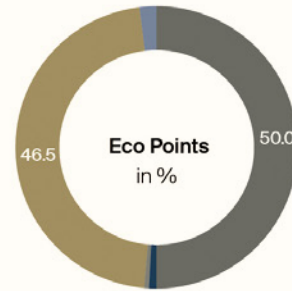
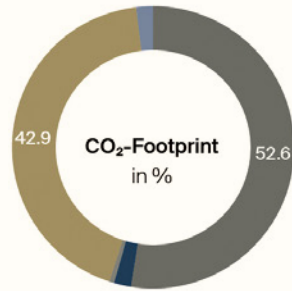
## Cooler V2000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>51.3   332</b>	<b>45.7   792,000</b>	<b>58.0   410</b>
● Packaging	1.7   11	1.1   19,200	1.0   7
● Transport	0.5   3	0.3   5,930	0.3   2
● Use - Electricity	43.4   281	50.9   882,000	39.8   281
● Recycling/Disposal	3.1   20	1.9   32,850	0.9   7
<b>Total (cradle-to-cradle)</b>	<b>100.0   647</b>	<b>100.0   1,731,980</b>	<b>100.0   707</b>

# Life cycle assessments (LCA)

WineCooler V4000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>52.6   184</b>	<b>50.0   507,000</b>	<b>67.0   321</b>
● Packaging	1.9   7	1.1   11,500	0.9   4
● Transport	0.7   3	0.5   4,590	0.4   2
● Use - Electricity	42.9   150	46.5   472,000	31.4   150
● Recycling/Disposal	1.9   7	1.9   18,975	0.3   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   350</b>	<b>100.0   1,014,065</b>	<b>100.0   478</b>

The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-For-est (high-quality reforestation)
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)



**Specifically for CombiCooler, Cooler and WineCooler:**

- **High-quality vacuum insulation panels (VIP)** prevent heat from penetrating the appliance, boosting its energy efficiency. The thin design of the VIPs enable a large usable volume despite the high level of insulation.
- **Four active heat exchanger modules**, each of which is equipped with a fan, boost the refrigerator's heat exchange efficiency and performance.
- Natural **refrigerant R600a** (isobutane) is used exclusively in all V-ZUG refrigerators. This refrigerant has an ODP (ozone depletion potential) of "0" and a GWP-AR5 (global warming potential) of "3", making it **more environmentally friendly than other refrigerants**.

- In the event of a breakdown, V-ZUG refrigerators can maintain chilled storage for up to **16 hours**, which sets the benchmark in the industry.
- High-quality **racks made from Swiss beech wood** are used in the WineCooler.
- V-ZUG Kühltechnik AG maintains a long-standing partnership with Obvita, which is dedicated to **the professional and social integration of people with visual impairments and mental health issues**. As part of this collaboration, an Obvita working group **regularly undertakes assembly work in V-ZUG's refrigerator production division**.



# Your contribution to a more sustainable use of our appliances

**A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:**

- **Limit the time that appliance doors are open and only open them as often as is necessary.**
- Allow warm or hot food/products **to cool outside the appliance.**
- Store moisture-releasing foods **in sealed containers or covered** in the refrigerating section. Moisture reduces refrigeration performance.
- To ensure optimum air circulation: **do not store food/goods too close together.**
- Leave **drawers**, glass shelves and door trays in the default **arrangement where possible.** This ensures optimum temperature distribution and efficiency.
- **Be smart when it comes to food shopping.** Before going shopping, it's always worth having a look in the fridge to see what you already have. You should only buy what you really need. Opt for small or packaged portions and be wary when it comes to promotions. Opt for local and seasonal products where possible. A small snack before going shopping can help ensure you don't buy more than you need, because shopping hungry often leads to overbuying.
- **Tips for preventing food waste:** "use by",

"sell by" and "best before" dates have different meanings. If the "use-by date" has been exceeded, you shouldn't consume the food. Otherwise, don't just go by the dates, but trust your senses – sight, smell and taste – to determine whether the food is still worth eating. Store food leftovers in transparent containers and position these so they aren't forgotten. Consume the food within one to three days. If you've bought more than you can eat, most foods can be frozen (bread for up to three months, and certain animal products for up to a year). When it comes to animal products, ensure that the cold chain is not broken. Good organisation is key – use the first-in, first-out principle for perishable foods like fruit and vegetables: keep older products at the front, new ones at the back.

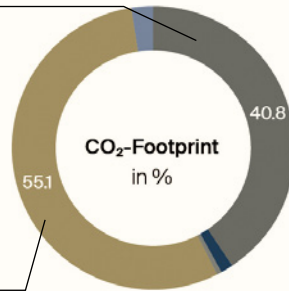
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG's CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

Manufacture is influenced primarily by V-ZUG

Use is influenced primarily by the user



CombiCooler V2000

● Manufacturing (cradle-to-gate)	40.8		331
● Packaging	1.4		11
● Transport	0.4		3
● Use - Electricity	55.1		447
● Recycling/Disposal	2.4		20
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>		<b>812</b>

High-quality vacuum insulation panels (VIPs) boost insulation and save energy

Extended storage capability in the event of power cuts

Collaboration with institution Obvita in production. Inclusion of people with disabilities

Ample space thanks to a streamlined design and high energy efficiency



Active heat exchanger modules boost energy efficiency

R600a refrigerant (isobutane) is more environmentally friendly than other refrigerants

WineCooler: high-quality racks made from Swiss beech wood

## Facts

- Swiss Made
- Focus on quality, durability and energy efficiency
- Designed for reparability and the circular economy
- State-of-the-art production facilities in Zug and Sulgen
- Responsible supply chains
- Resilient and committed employees

Categorie: hobs



# Results of life cycle assessments (LCA)

**Product category:** Hobs

**Product name:** CookTop (radiant heating and induction), CombiCookTop

**Energy labels (EU):** only available with CombiCookTop (relating to range hood), majority A

**Recycling quota\*:** 60 – 78%

**Recovery quota\*:** 77 – 86% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Sens Foundation recycling quota for the white goods appliances category (washing machines, ovens, range hoods, etc.):**

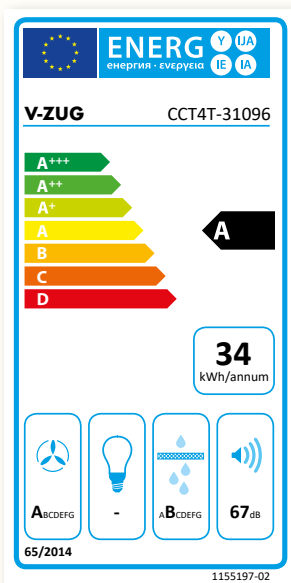
73% (according to 2024 annual report)

**Underlying data for the life cycle assessment**

**Country of manufacture <sup>1)</sup>:** Austria

**Country of use <sup>2)</sup>:** Switzerland

**Electricity mix <sup>3)</sup>:** as per Swiss average: 181 g CO<sub>2</sub>/kWh



Example for CombiCookTop V4000.

All other energy labels are available at [vzug.com](http://vzug.com)

**User behaviour <sup>4)</sup>:**

CookTop: 3 different cooking processes (side dish, vegetables, roasting), 13 meals a week, for a period of 12 years<sup>5)</sup>

CombiCookTop: as above, with fan power included in the calculation, for a period of 12 years<sup>5)</sup>

**Underlying data background:**

1) All appliances are produced according to our specifications and quality requirements in Austria.

2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.

3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation.

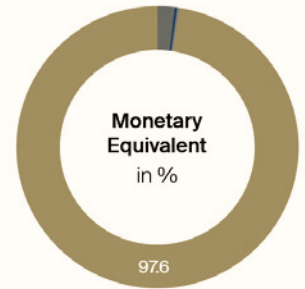
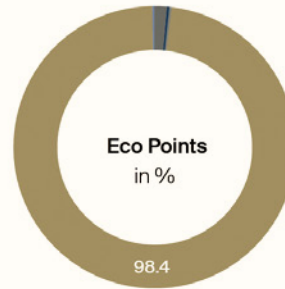
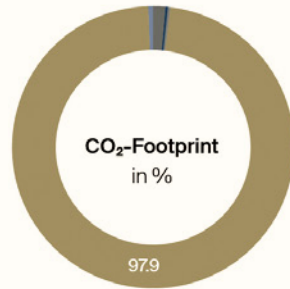
The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.

4) Usage behaviour: theoretical usage behaviour based on internal definitions is used for calculation. Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity and programme selection influenced the result considerably.

5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. In addition to the lifespan in years (12 years for range hoods/hobs), the number of cycles is also considered. But the lifespan in years depends on a number of different factors – intensity of use and care being the most crucial. The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to repairability (availability of spare parts and repair expertise in the service department).

# Life cycle assessments (LCA)

CookTop V200



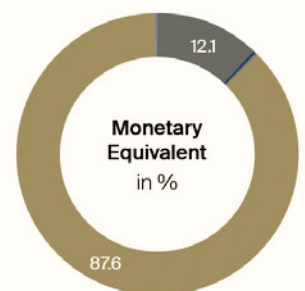
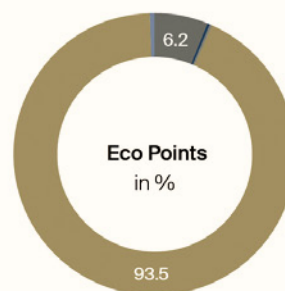
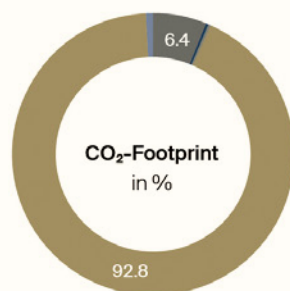
in % | in kg CO<sub>2</sub>e

in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>1.6   21</b>	<b>1.4   58,300</b>	<b>2.2   30</b>
● Packaging	0.1   2	0.1   2,770	0.1   1
● Transport	0.1   2	0.1   2,794	0.1   1
● Use - Electricity	97.9   1,350	98.4   4,230,000	97.6   1,350
● Recycling/Disposal	0.3   4	0.1   4,631	0.0   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   1,379</b>	<b>100.0   4,298,495</b>	<b>100.0   1,383</b>

CookTop V2000



in % | in kg CO<sub>2</sub>e

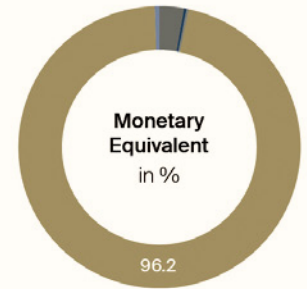
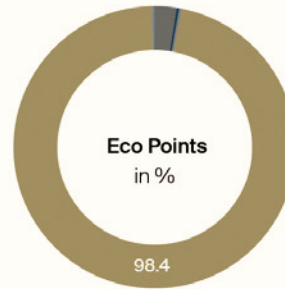
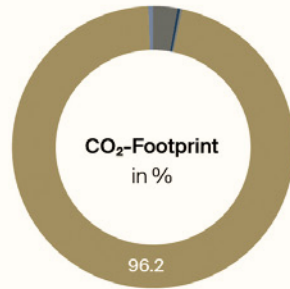
in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>6.4   83</b>	<b>6.2   251,000</b>	<b>12.1   166</b>
● Packaging	0.1   2	0.1   2,910	0.1   1
● Transport	0.1   2	0.1   2,943	0.1   1
● Use - Electricity	92.8   1,200	93.5   3,770,000	87.6   1,200
● Recycling/Disposal	0.5   7	0.2   7,291	0.1   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   1,293</b>	<b>100.0   4,034,144</b>	<b>100.0   1,370</b>

# Life cycle assessments (LCA)

## CookTop V4000



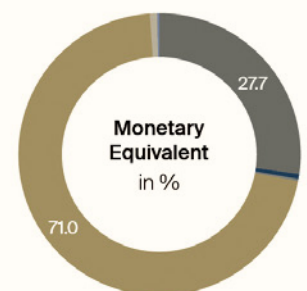
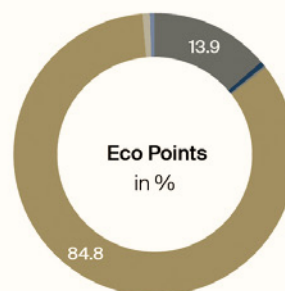
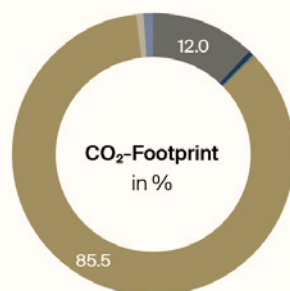
in % | in kg CO<sub>2</sub>e

in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>3.2   45</b>	<b>2.8   124,000</b>	<b>3.2   45</b>
● Packaging	0.1   2	0.1   2,970	0.1   2
● Transport	0.1   2	0.1   2,842	0.1   2
● Use - Electricity	96.2   1,350	96.9   4,230,000	96.2   1,350
● Recycling/Disposal	0.3   5	0.1   5,130	0.3   5
<b>Total (cradle-to-cradle)</b>	<b>100.0   1,404</b>	<b>100.0   4,364,942</b>	<b>100.0   1,404</b>

## CombiCookTop V4000



in % | in kg CO<sub>2</sub>e

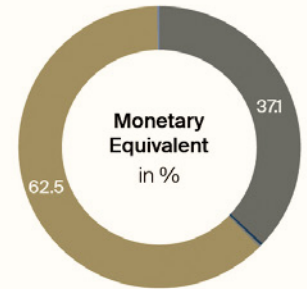
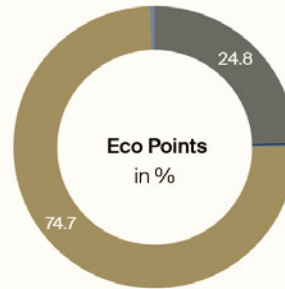
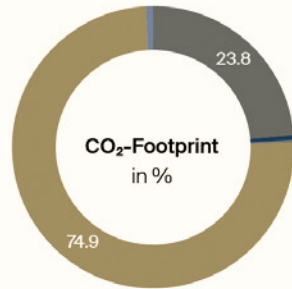
in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>12.0   178</b>	<b>13.9   657,000</b>	<b>27.7   496</b>
● Packaging	0.5   8	0.3   12,200	0.3   5
● Transport	0.2   2	0.1   4,350	0.1   2
● Use - Electricity	85.5   1,270	84.8   4,000,000	71.0   1,270
● Use - Consumables	0.8   12	0.6   26,900	0.8   14
● Recycling/Disposal	1.0   14	0.3   16,303	0.2   3
<b>Total (cradle-to-cradle)</b>	<b>100.0   1,485</b>	<b>100.0   4,716,753</b>	<b>100.0   1,790</b>

# Life cycle assessments (LCA)

CookTop V6000 FullFlex



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>23.8   382</b>	<b>24.8   1,250,000</b>	<b>37.1   713</b>
● Packaging	0.3   4	0.1   7,000	0.1   3
● Transport	0.2   3	0.1   4,910	0.1   2
● Use - Electricity	74.9   1,200	74.7   3,760,000	62.5   1,200
● Recycling/Disposal	0.8   12	0.3   14,651	0.1   3
<b>Total (cradle-to-cradle)</b>	<b>100.0   1,601</b>	<b>100.0   5,036,561</b>	<b>100.0   1,920</b>

The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-For-est (high-quality reforestation)
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)



### Specific factors for hobs:

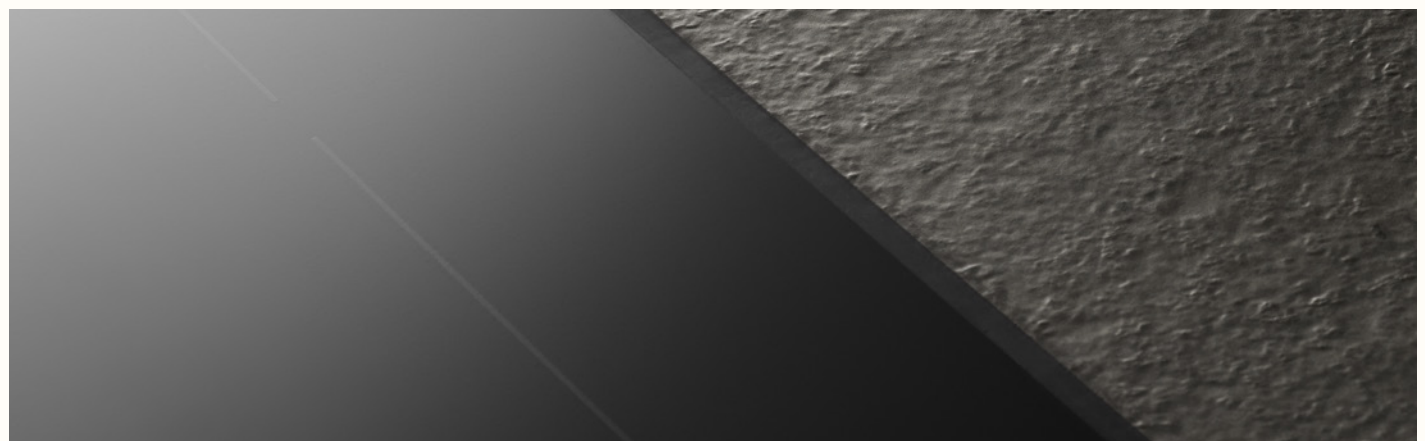
- Wide range of induction hobs: V-ZUG focuses on **induction technology**, which is much more energy-efficient than conventional cooking methods (10 – 15% less energy compared to radiant heating elements).
- Induction hobs **heat only the pots and pans directly** and not the surface of the hob, meaning that less energy is lost.
- **OptiGlas** variant: special glass coating improves resistance to scratches, makes cleaning easier and keeps the hob looking like new for longer.
- **Reduced heat output:** as induction hobs heat only the pans and not the surface of the hob, less heat is released into the surrounding area. This helps to create a cooler and more energy-efficient kitchen environment.
- **Precise heat control:** induction technology enables instantly responsive power control, which not only makes cooking more efficient but also reduces energy consumption.
- **OptiLink** (optional) enables wireless communication between the hob and the range hood. Advantages:
  - **Automatic control:** the range hood automatically adjusts its power to the cooking activity. This means that it works harder during intensive cooking and reduces the power when less steam is being generated.
  - **Special functions** such as melt, keep warm and simmer automatically use the correct, most energy-efficient power level for the situation at hand.
  - **Improved efficiency:** the automatic adaptation maximises the efficiency of the range hood while minimising energy consumption.
  - **Convenience:** the user does not have to control the range hood manually, making it more convenient and user-friendly.



# Your contribution to a more sustainable use of our appliances

**A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:**

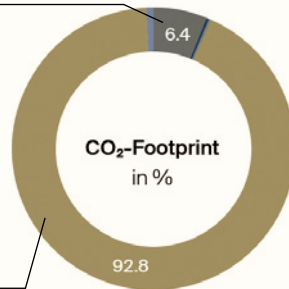
- **Use lids:** using a lid, for example when boiling water for tea or pasta, allows the boiling point to be reached faster and thus saves energy.
- For the most efficient **energy consumption** and even **heat distribution**, keep the following in mind:
  - **The bottom** of the cookware must be clean, dry and not rough
  - **The diameter** of the cooking zone should match the diameter of the bottom of the cookware as closely as possible
  - **Cookware** should be positioned centrally on the cooking zone
  - Use **lids** that close firmly
  - Use cookware with an appropriate diameter for the **items being cooked**
  - **Think ahead when cooking:** choose a suitable power level for the food being cooked – see tips in the operating instructions.
  - **Use special functions** such as melt, keep warm and simmer.
- By **consuming** seasonal, regional, unprocessed, plant-based, organic foods and reducing the number of meat-based meals you eat and avoiding food waste, you can shrink your personal carbon footprint.
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG's CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

Manufacture is influenced primarily by V-ZUG

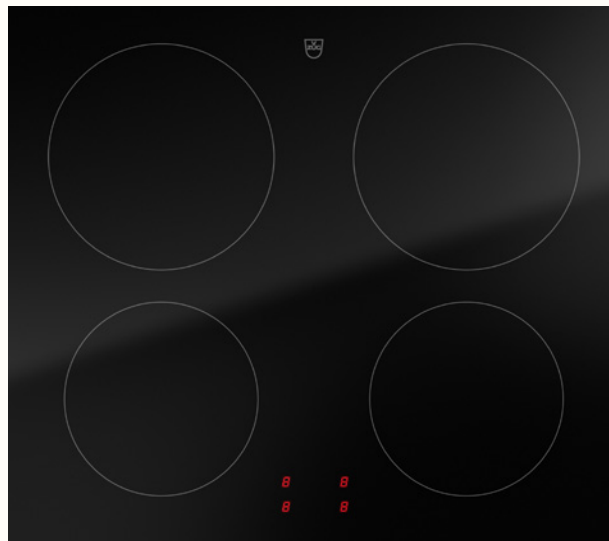
Use is influenced primarily by the user



CookTop V2000		in kg	
	in %	CO <sub>2</sub> e	
● <b>Manufacturing (cradle-to-gate)</b>	<b>6.4</b>	<b>83</b>	
● Packaging	0.1	2	
● Transport	0.1	2	
● Use - Electricity	92.8	1,200	
● Recycling/Disposal	0.5	7	
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>	<b>1,293</b>	

OptiLink option: hob controls the hood based on demand and energy

Durable and high-quality glass ceramic surface



OptiGlass variant: special coating minimises scratches

Induction technology saves up to 15% energy compared to radiant heating elements

<sup>1)</sup>V6000 model

## Facts

- Focus on quality, durability and energy efficiency
- Responsible supply chains
- Designed for reparability and the circular economy
- Resilient and committed employees

Category: range hoods



# Results of life cycle assessments (LCA)

**Product category:** Range hoods

**Product name:** AiroClear installation, wall, island, CombiCookTop

**Energy labels (EU):** see specific product, predominantly A

**Recycling quota\*:** 61 – 88%

**Recovery quota\*:** 77 – 93% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Sens Foundation recycling quota for the white goods appliances category (washing machines, ovens, range hoods, etc.):**

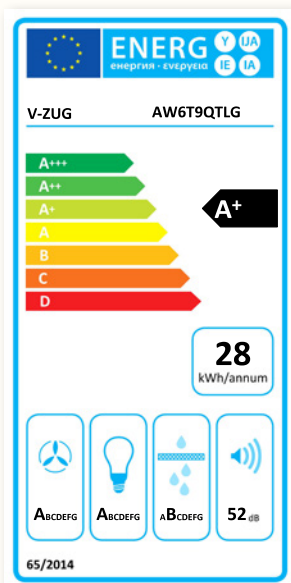
73% (according to 2024 annual report)

**Underlying data for the life cycle assessment**

**Country of manufacture** <sup>1)</sup>: AiroClear: Italy / CombiCookTop: Austria

**Country of use** <sup>2)</sup>: Switzerland

**Electricity mix** <sup>3)</sup>: as per Swiss average: 181 g CO<sub>2</sub>/kWh



Example for AiroClearWall V6000.

All other energy labels are available at [vzug.com](http://vzug.com)

**User behaviour** <sup>4)</sup>:

AiroClear: Annual energy consumption as per label. Combination of light (2 hours a day) and ventilation (1 hour a day, most efficient level, including after-run), for a period of 12 years<sup>5)</sup>

CombiCookTop: 3 different cooking processes (side dish, vegetables, roasting), 13 meals a week, with fan power included in calculation, for a period of 12 years<sup>5)</sup>

**Underlying data background:**

1) All appliances are produced according to our specifications and quality requirements in Italy or Austria.

2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.

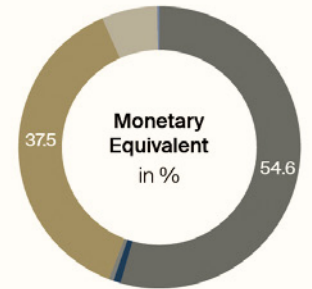
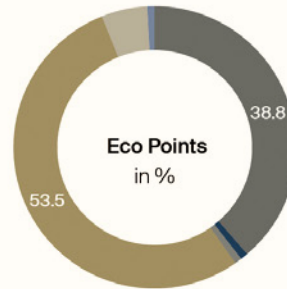
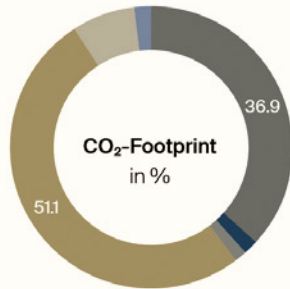
3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation. The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.

4) Usage behaviour: theoretical usage behaviour based on internal definitions is used for calculation. Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity and programme selection influenced the result considerably.

5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. In addition to the lifespan in years (12 years for range hoods/hobs), the number of cycles is also considered. But the lifespan in years depends on a number of different factors, intensity of use and care being the most crucial. The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to repairability (availability of spare parts and repair expertise in the service department).

# Life cycle assessments (LCA)

DFN



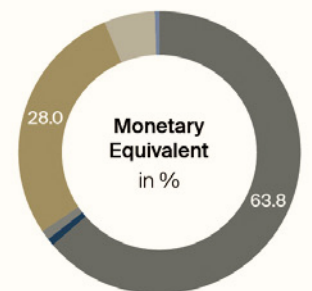
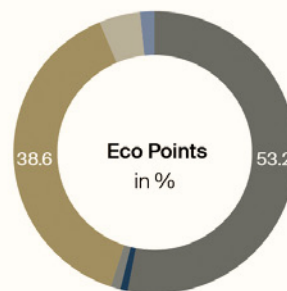
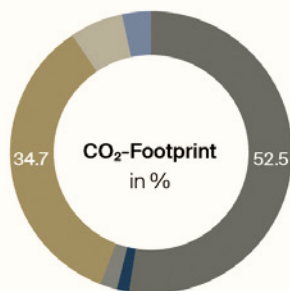
in % | in kg CO<sub>2</sub>e

in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>36.9   63</b>	<b>38.8   197,000</b>	<b>54.6   126</b>
● Packaging	1.6   3	0.8   3,930	0.7   2
● Transport	1.4   2	0.8   4,220	0.7   2
● Use - Electricity	51.1   87	53.5   272,000	37.5   87
● Use - Consumables	7.2   12	5.3   26,900	6.2   14
● Recycling/Disposal	1.8   3	0.8   4,025	0.2   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   169</b>	<b>100.0   508,075</b>	<b>100.0   231</b>

AiroClearCabinet V6000



in % | in kg CO<sub>2</sub>e

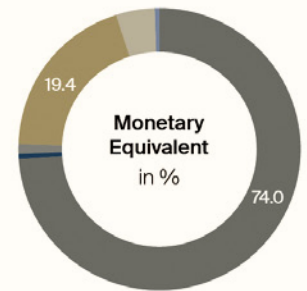
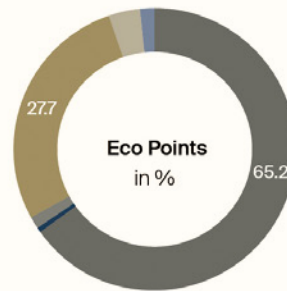
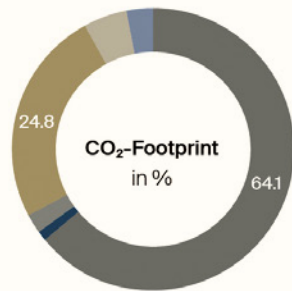
in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>52.5   103</b>	<b>53.2   295,000</b>	<b>63.8   155</b>
● Packaging	1.4   3	0.7   3,920	0.7   2
● Transport	2.1   4	1.3   7,370	1.1   3
● Use - Electricity	34.7   68	38.6   214,000	28.0   68
● Use - Consumables	6.2   12	4.8   26,900	5.9   14
● Recycling/Disposal	3.1   6	1.4   7,801	0.4   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   196</b>	<b>100.0   554,991</b>	<b>100.0   243</b>

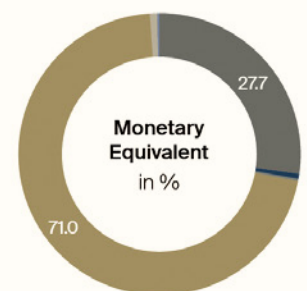
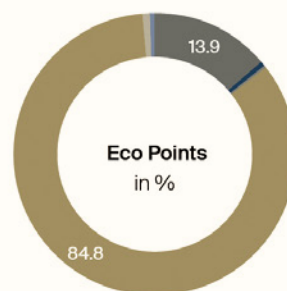
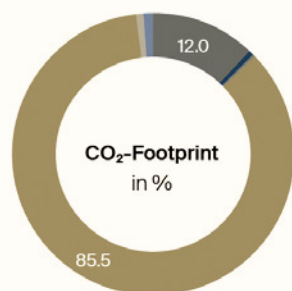
# Life cycle assessments (LCA)

AiroClearWall V6000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>64.1   159</b>	<b>65.2   454,000</b>	<b>74.0   234</b>
● Packaging	1.1   3	0.6   3,920	0.5   2
● Transport	2.1   5	1.3   9,280	1.1   3
● Use - Electricity	24.8   62	27.7   193,000	19.4   61
● Use - Consumables	4.9   12	3.9   26,900	4.6   14
● Recycling/Disposal	3.0   7	1.4   9,751	0.4   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   248</b>	<b>100.0   696,851</b>	<b>100.0   316</b>

CombiCookTop V4000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>12.0   178</b>	<b>13.9   657,000</b>	<b>27.7   496</b>
● Packaging	0.5   8	0.3   12,200	0.3   5
● Transport	0.2   2	0.1   4,350	0.1   2
● Use - Electricity	85.5   1,270	84.8   4,000,000	71.0   1,270
● Use - Consumables	0.8   12	0.6   26,900	0.8   14
● Recycling/Disposal	1.0   14	0.3   16,303	0.2   3
<b>Total (cradle-to-cradle)</b>	<b>100.0   1,485</b>	<b>100.0   4,716,753</b>	<b>100.0   1,790</b>

The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical

data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-Forest (high-quality reforestation))
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)



### Specific factors for range hoods:

- **Efficient motors:** For the motors, selection factors include the optimum ratio of performance, energy consumption and noise level.
- **LED lighting** reduces the energy consumption.
- **OptiLink** (optional) enables wireless communication between the hob and the range hood. Advantages:
  - Automatic control: The range hood automatically adjusts its power to the cooking activity. This means that it works harder during intensive cooking and reduces the power when less steam is being generated.
  - Improved efficiency: The automatic adaptation maximises the efficiency of the range hood while minimising energy consumption.
  - Convenience: The user does not have to control the range hood manually, making it more convenient and user-friendly.
- **Long-lasting filters.** Use odour filters that can be used for longer than disposable filters through cleaning or regeneration.



# Your contribution to a more sustainable use of our appliances

**A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:**

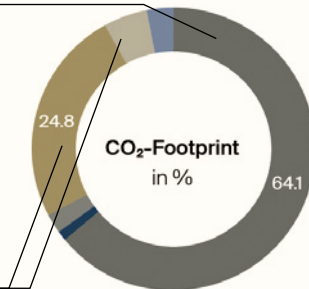
- **Lights** should only be switched on when you need them.
- **Switch off the range hood** when you're not cooking.
- By **consuming** seasonal, regional, unprocessed, plant-based, organic foods and reducing the number of meat-based meals you eat and avoiding food waste, you can shrink your personal carbon footprint.
- With the CombiCookTop: **Use lids:** using a lid, for example when boiling water for tea or pasta, allows the boiling point to be reached faster and thus saves energy.
- With the CombiCookTop: For the most efficient energy consumption and even heat distribution, keep the following in mind:
  - **The bottom of the cookware** must be clean, dry and not rough
  - The diameter of the cooking zone should **match** the diameter of the bottom of the cookware as closely as possible
  - Position the cookware **centrally** on the cooking zone
  - Use **lids** that close firmly
  - Use cookware with an appropriate diameter for the **items being cooked**
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG's CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

Manufacture is influenced primarily by V-ZUG

Use is influenced primarily by the user



AiroClearWall V6000	in kg	
	in %	CO <sub>2</sub> e
● <b>Manufacturing (cradle-to-gate)</b>	<b>64.1</b>	<b>159</b>
● Packaging	1.1	3
● Transport	2.1	5
● Use - Electricity	24.8	62
● Use - Consumables	4.9	12
● Recycling/Disposal	3.0	7
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>	<b>248</b>

LED lighting saves energy

Reusable odour filters conserve resources

High-quality materials: mirror glass and stainless steel (depending on the model)



Motors optimised for maximum power, minimum energy consumption and quiet operation

OptiLink option: hob controls the hood based on demand and energy

## Facts

- Focus on quality, durability and energy efficiency
- Designed for reparability and the circular economy
- Responsible supply chains
- Resilient and committed employees

# Category: extra products

(coffee machines, drawers, microwave ovens)



# Coffee machines

**Recycling quota\***: 74 – 81%

**Recovery quota\***: 84 – 88% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Underlying data for the life cycle assessment**

**Country of manufacture <sup>1)</sup>**: Italy

**Country of use <sup>2)</sup>**: Switzerland

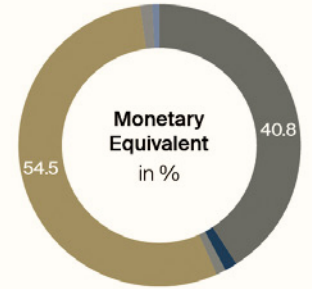
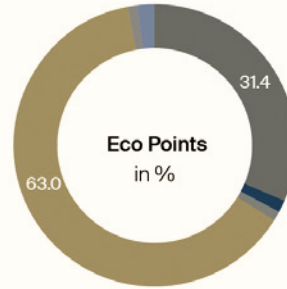
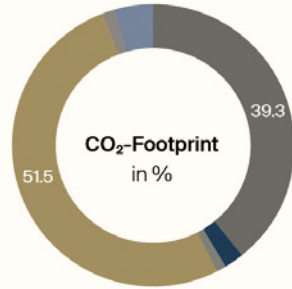
**Electricity mix <sup>3)</sup>**: as per Swiss average: 181 g CO<sub>2</sub>/kWh

**User behaviour <sup>4)</sup>**: Consumption of 6 coffees per day (different recipes), 4x water consumption with steam function. Includes heating the appliance, plus 1 hour standby, for a period of 12 years<sup>5)</sup>



# Coffee machines

CoffeeCenter V6000



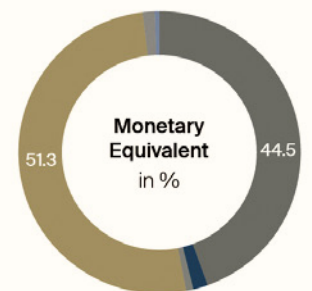
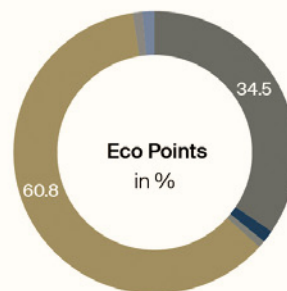
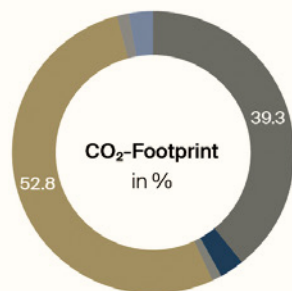
in % | in kg CO<sub>2</sub>e

in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>39.3   107</b>	<b>31.4   218,000</b>	<b>40.8   104</b>
● Packaging	2.1   6	1.6   10,800	1.6   4
● Transport	1.3   4	0.9   6,400	0.9   2
● Use - Electricity	51.5   140	63.0   438,000	54.5   139
● Use - Water	0.0   0	0.0   160	0.0   0
● Use - Detergent	1.3   4	1.1   7,770	1.4   3
● Effect of detergent in water	0.0   0	0.0   213	0.0   0
● Recycling/Disposal	4.4   12	1.9   13,533	0.7   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   272</b>	<b>100.0   694,876</b>	<b>100.0   255</b>

Supremo HSL



in % | in kg CO<sub>2</sub>e

in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>39.3   102</b>	<b>34.5   245,000</b>	<b>44.5   119</b>
● Packaging	2.7   7	1.6   11,300	1.7   4
● Transport	1.2   3	0.8   5,680	0.8   2
● Use - Electricity	52.8   137	60.8   431,000	51.3   137
● Use - Water	0.0   0	0.0   160	0.0   0
● Use - Detergent	1.4   4	1.1   7,770	1.3   3
● Effect of detergent in water	0.0   0	0.0   213	0.0   0
● Recycling/Disposal	2.6   7	1.2   8,248	0.4   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   260</b>	<b>100.0   709,371</b>	<b>100.0   267</b>

# Drawers

**Recycling quota\***: 81 – 91%

**Recovery quota\***: 89 – 84% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

## Underlying data for the life cycle assessment

**Country of manufacture** <sup>1)</sup>: Austria

**Country of use** <sup>2)</sup>: Switzerland

**Electricity mix** <sup>3)</sup>: as per Swiss average: 181 g CO<sub>2</sub>/kWh

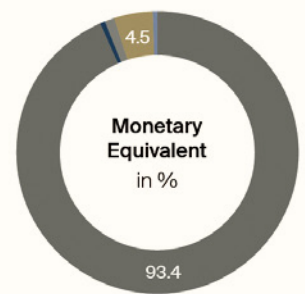
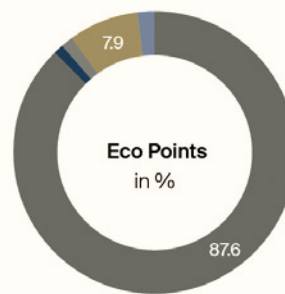
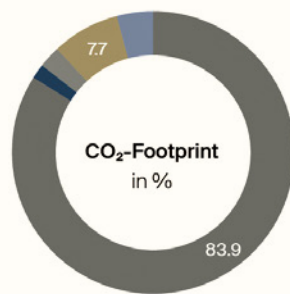
## User behaviour <sup>4)</sup>:

VacuDrawer: packing food twice a week, for a period of 12 years<sup>5)</sup>

WarmingDrawer: various uses such as warming cutlery (26x, 75 min), keeping food warm (52x, 45 min), cooking yoghurt (13x, 6 h), for a period of 12 years<sup>5)</sup>

System drawer: no electrical connection, not relevant for use, for a period of 12 years<sup>5)</sup>

VacuDrawer V6000



in % | in kg CO<sub>2</sub>e

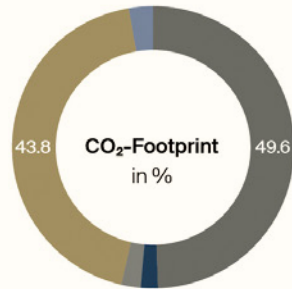
in % | in EP

in % | in CHF

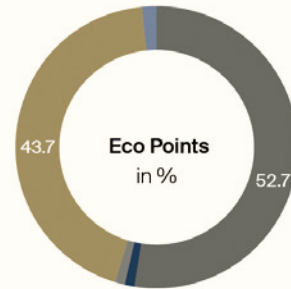
	83.9   114	87.6   365,000	93.4   219
● <b>Manufacturing (cradle-to-gate)</b>	<b>83.9   114</b>	<b>87.6   365,000</b>	<b>93.4   219</b>
● Packaging	1.8   2	1.0   4,200	0.7   2
● Transport	2.6   4	1.5   6,380	1.0   2
● Use - Electricity	7.7   11	7.9   32,900	4.5   11
● Recycling/Disposal	4.0   5	1.9   7,959	0.4   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   136</b>	<b>100.0   416,439</b>	<b>100.0   234</b>

# Drawers

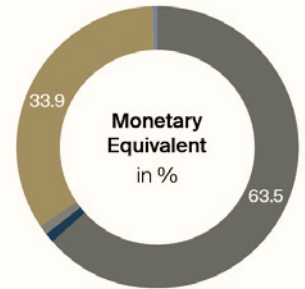
## WarmingDrawer V4000



in % | in kg CO<sub>2</sub>e



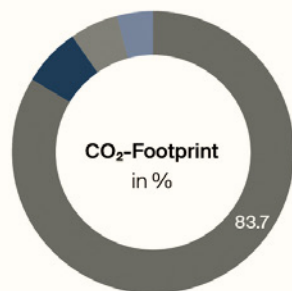
in % | in EP



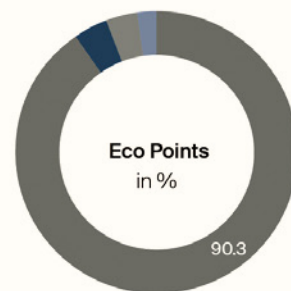
in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>49.6   58</b>	<b>52.7   193,000</b>	<b>63.5   96</b>
● Packaging	2.1   2	1.1   4,200	1.1   2
● Transport	2.0   2	1.1   4,196	1.1   2
● Use - Electricity	43.8   51	43.7   160,000	33.9   51
● Recycling/Disposal	2.6   3	1.4   4,972	0.4   1
<b>Total (cradle-to-cradle)</b>	<b>100.0   116</b>	<b>100.0   366,368</b>	<b>100.0   150</b>

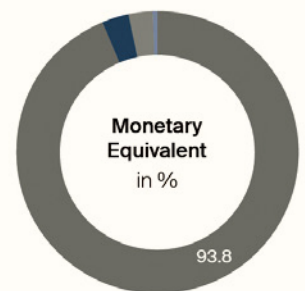
## Drawer V2000



in % | in kg CO<sub>2</sub>e



in % | in EP



in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>83.7   29</b>	<b>90.3   91,800</b>	<b>93.8   48</b>
● Packaging	6.8   2	4.1   4,200	3.1   2
● Transport	5.6   2	3.4   3,445	2.6   1
● Use - Electricity	2.0   1	2.2   2,240	0.5   0
● Recycling/Disposal	3.9   1	2.2   2,240	0.5   0
<b>Total (cradle-to-cradle)</b>	<b>100.0   34</b>	<b>100.0   101,685</b>	<b>100.0   51</b>

# Microwave ovens

**Recycling quota\*:** 75 – 79%

**Recovery quota\*:** 85 – 87% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Underlying data for the life cycle assessment**

**Country of manufacture <sup>1)</sup>:** China

**Country of use <sup>2)</sup>:** Switzerland

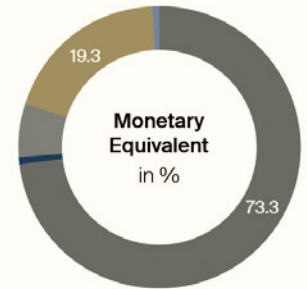
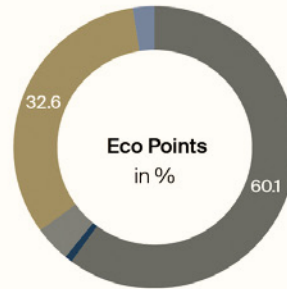
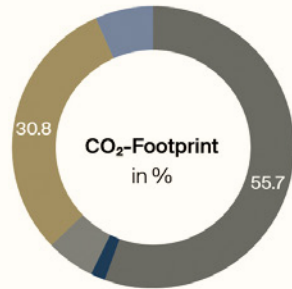
**Electricity mix <sup>3)</sup>:** as per Swiss average: 181 g CO<sub>2</sub>/kWh

**User behaviour <sup>4)</sup>:** 4 or 5 different processes (warming drinks, heating various foodstuffs, defrosting, cooking, cooking au gratin), 10x per week, for a period of 10 years<sup>5)</sup>



# Microwave ovens

Miwell V600



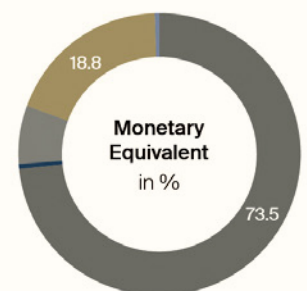
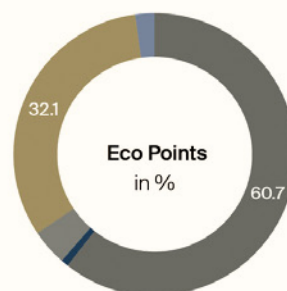
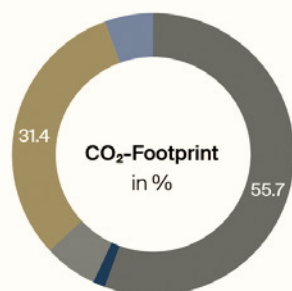
in % | in kg CO<sub>2</sub>e

in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>55.7   111</b>	<b>60.1   356,000</b>	<b>73.3   233</b>
● Packaging	1.7   3	0.9   5,410	0.7   2
● Transport	5.4   11	4.1   24,140	6.1   19
● Use - Electricity	30.8   61	32.6   193,000	19.3   61
● Recycling/Disposal	6.4   13	2.4   13,966	0.6   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   199</b>	<b>100.0   592,516</b>	<b>100.0   318</b>

CombiMiwell V4000



in % | in kg CO<sub>2</sub>e

in % | in EP

in % | in CHF

	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>55.7   156</b>	<b>60.7   523,000</b>	<b>73.5   343</b>
● Packaging	1.3   4	0.7   5,960	0.5   2
● Transport	6.0   17	4.4   38,050	6.6   31
● Use - Electricity	31.4   88	32.1   276,000	18.8   88
● Recycling/Disposal	5.5   15	2.1   17,988	0.5   2
<b>Total (cradle-to-cradle)</b>	<b>100.0   280</b>	<b>100.0   860,998</b>	<b>100.0   467</b>

# Underlying data background

1) All appliances are produced according to our specifications and quality requirements in Italy (coffee machines), Austria (drawers) and China (microwave ovens).

2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.

3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation. The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.

4) Usage behaviour: average usage behaviour based on internal definitions is used for calculation. Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity and programme selection influenced the result considerably.

5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. In addition to the lifespan in years (12 years for coffee machines and drawers, 10 years for microwave ovens), the number of cycles is also considered. But the lifespan in years depends on a number of different factors, intensity of use and care being the most crucial. The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to repairability (availability of spare parts and repair expertise in the service department).

Recycling classification: Sens Foundation recycling quota for the white goods appliances category (washing machines, ovens, range hoods, etc.): 73% (according to 2024 annual report).

Product variability: The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-For-est (high-quality reforestation)
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)



# Category: washing machines



# Results of Life cycle assessments (LCA)

**Product category:** Washing machines

**Product name:** AdoraWash,  
UnimaticWash

**Energy labels (EU):** see specific product, pre-dominantly in the highest classes

**Recycling quota\*:** 69 – 79%

**Recovery quota\*:** 81 – 87% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Sens Foundation recycling quota for the white goods appliances category (washing machines, ovens, range hoods, etc.):**

73% (according to 2024 annual report)

**Underlying data for the life cycle assessment**

**Country of manufacture** <sup>1)</sup>: Switzerland

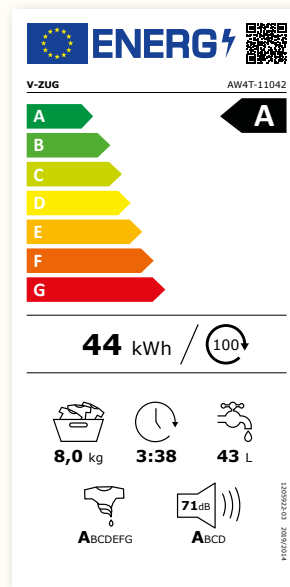
**Country of use** <sup>2)</sup>: Switzerland

**Electricity mix** <sup>3)</sup>: as per Swiss average:  
181g CO<sub>2</sub>/kWh

**User behaviour:**

Adora: 220 cycles per year <sup>4)</sup> (programme mix: 100% Eco 40-60, declaration programme, different load sizes), over 15 years<sup>5)</sup>

Unimatic: 825 cycles per year <sup>4)</sup> (programme mix: 100% Eco 40-60, declaration programme, different load sizes), over 15 years<sup>5)</sup>



Example for AdoraWash V4000.  
All other energy labels are available at [vzug.com](http://vzug.com)

**Underlying data background:**

1) All appliances with the Swiss Made designation are manufactured in Switzerland. That applies to all Adora washing machines.

2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.

3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation.

The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.

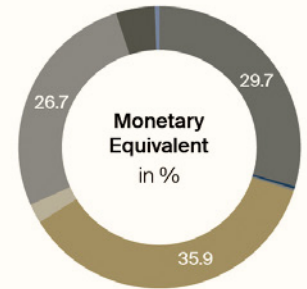
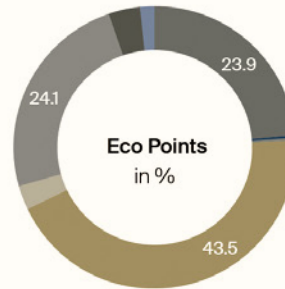
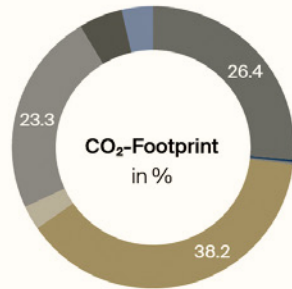
4) Usage behaviour: average usage behaviour based on internal definitions is used for calculation.

Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity and programme selection influenced the result considerably.

5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. As well as the lifespan in years, the number of cycles is relevant as well (AdoraWash is designed for up to 5,000 cycles, UnimaticWash for 15,000 cycles). But the lifespan in years depends on a number of different factors, intensity of use and care being the most crucial. The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to repairability (availability of spare parts and repair expertise in the service department).

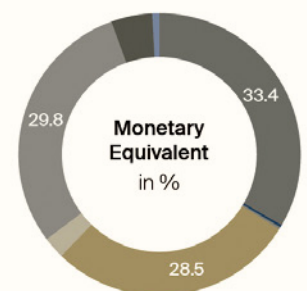
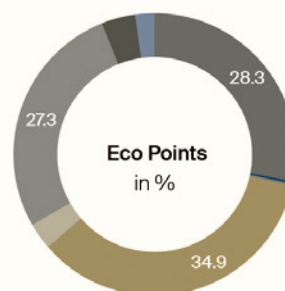
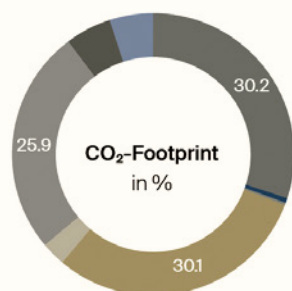
# Life cycle assessments (LCA)

AdoraWash V2000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>26.4   257</b>	<b>23.9   644,000</b>	<b>29.7   307</b>
● Packaging	0.5   5	0.3   7,480	0.3   3
● Transport	0.3   3	0.2   5,180	0.2   2
● Use - Electricity	38.2   372	43.5   1,170,000	35.9   371
● Use - Water	2.8   27	2.8   76,100	2.3   24
● Use - Detergent	23.3   227	24.1   648,000	26.7   276
● Effect of detergent in water	5.0   48	3.6   97,800	4.3   44
● Recycling/Disposal	3.5   34	1.5   41,363	0.5   6
<b>Total (cradle-to-cradle)</b>	<b>100.0   973</b>	<b>100.0   2,689,923</b>	<b>100.0   1,032</b>

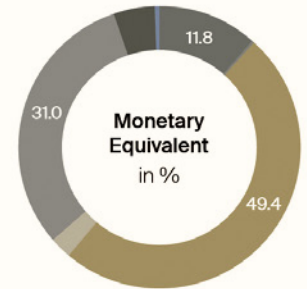
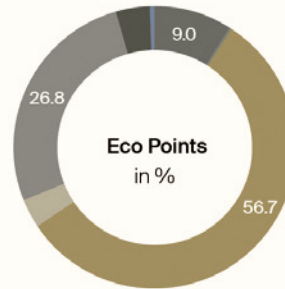
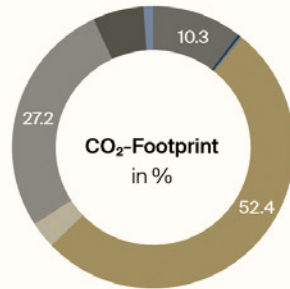
AdoraWash V4000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>30.2   265</b>	<b>28.3   672,000</b>	<b>33.4   309</b>
● Packaging	0.5   5	0.3   7,580	0.3   3
● Transport	0.4   3	0.2   5,520	0.2   2
● Use - Electricity	30.1   264	34.9   828,000	28.5   264
● Use - Water	2.9   26	3.1   72,700	2.4   23
● Use - Detergent	25.9   227	27.3   648,000	29.8   276
● Effect of detergent in water	5.3   46	3.9   93,400	4.6   42
● Recycling/Disposal	4.8   42	2.0   47,840	0.7   7
<b>Total (cradle-to-cradle)</b>	<b>100.0   878</b>	<b>100.0   2,375,040</b>	<b>100.0   925</b>

# Life cycle assessments (LCA)

UnimaticWash V4000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>10.3   321</b>	<b>9.0   813,000</b>	<b>11.8   391</b>
● Packaging	0.1   2	0.0   4,350	0.0   2
● Transport	0.1   3	0.1   6,070	0.1   2
● Use - Electricity	52.4   1,640	56.7   5,150,000	49.4   1,640
● Use - Water	3.2   99	3.1   279,000	2.6   86
● Use - Detergent	27.2   851	26.8   2,430,000	31.0   1,030
● Effect of detergent in water	5.7   178	3.9   358,000	4.9   161
● Recycling/Disposal	1.1   33	0.4   39,653	0.2   5
<b>Total (cradle-to-cradle)</b>	<b>100.0   3,128</b>	<b>100.0   9,080,073</b>	<b>100.0   3,318</b>

The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
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  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-For-est (high-quality reforestation)
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)

## Specifically for Adora washing machines:

- Built-in **heat pump** for increased energy efficiency in all programmes (V6000 model).
- All Adora appliances rank in the highest **energy efficiency class (A)**.
- **Eco 40-60 programme** – the most energy-efficient programme for daily/nightly use.
- **Eco Management feature** preview of water consumption and energy consumption. Helps with the programme selection and facilitates ecological use.
- **Push notifications** from the V-ZUG app and list feature for energy and water consumption.
- **Additional “energy saving” feature** – ultra energy-saving programme thanks to temperature reduction. By extending the wash duration, the washing performance is maintained. Energy savings of approx. 10%-40%, wash durations extended by approx. 25-60 minutes and water savings of approx. 10%-20% depending on the programme.
- **OptiTime feature**: where the programme end time has been selected, OptiTime calculates the most energy-efficient programme that can be run in the time remaining until the end of the programme. This enables energy savings of up to 60% overnight for instance.
- The optional **OptiDos** adapts the detergent amount to the selected programme and the washing load, and avoids any unnecessary overdosing.
- Hot water connection **option**: reduces electricity consumption linked to how the hot water is prepared (ideally with solar energy).

# Your contribution to a more sustainable use of our appliances

**A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:**

- **Airing:** does an item of clothing really need to be washed? Often, all an item of clothing needs is to be aired outside in the fresh air.
- Compare the electricity and water consumption of the individual programmes and **make an informed decision** as to which programme is required given the degree of soiling and urgency (note EcoManagement).
- Use as much of the **maximum load capacity** of the respective programme as possible.
- Only select “pre-wash” or “soak” for ultra dirty laundry or **stubborn stains**.
- For **lightly soiled** laundry without any stains, use the **main “20°C” washing programme**.
- **Select the additional “energy saving” feature** if the programme duration doesn't matter.
- **Select the additional “OptiTime” feature** if you plan to wash overnight with a delayed start.
- **Care instructions:** washing labels on textiles indicate the maximum temperature at which an item of clothing should be washed. This temperature should not be exceeded, but you can always wash at lower temperatures.
- **Detergent:** Choose the relevant detergent (heavy-duty, colour, delicate, wool detergent) depending on the type of laundry and follow the respective dosing instructions. Using the detergent suitable for the respective type of textile helps to care for the material and keep it looking its best. Following the dosage recommendation helps to avoid any potential overdosing.

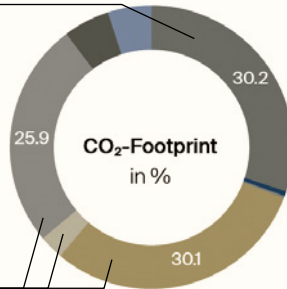
- **Low temperature:** 30°C is the new 40°C. Wash at low temperatures to avoid unnecessary use of energy. But to prevent the formation of any biofilm, textiles should be washed at 60°C at least once a month.
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG's CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

Manufacture is influenced primarily by V-ZUG

Use is influenced primarily by the user



AdoraWash V4000

● <b>Manufacturing (cradle-to-gate)</b>	<b>30.2</b>   <b>265</b>
● Packaging	0.5   5
● Transport	0.4   3
● Use - Electricity	30.1   264
● Use - Water	2.9   26
● Use - Detergent	25.9   227
● Effect of detergent in water	5.3   46
● Recycling/Disposal	4.8   42
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>   <b>878</b>

OptiTime feature saves up to 60% energy per wash cycle

Additional “energy saving” feature – compatible with all standard programmes, saves up to 40% energy

Push notifications with consumption data promote ecological use



All Adora models in energy efficiency class A

Built-in heat pump boosts energy efficiency<sup>1)</sup>

EcoManagement promotes ecological use

OptiDos option avoids unnecessary overdosing

Hot water connection boosts energy efficiency (optional)

<sup>1)</sup>Optional for V6000 model

## Facts

- Swiss Made
- Focus on quality, durability and energy efficiency
- Designed for reparability and the circular economy
- State-of-the-art production facilities in Zug and Sulgen
- Responsible supply chains
- Resilient and committed employees

Category: tumble dryer



# Results of Life cycle assessments (LCA)

**Product category:** Tumble dryers

**Product name:** AdoraDry, UnimaticDry

**Energy labels (EU):** see specific product, predominantly in the highest classes

**Recycling quota\*:** 71 – 89%

**Recovery quota\*:** 82 – 93% (recycling including combustion with heat recovery)

\*Based on own method reflecting the current state of recycling technology in Switzerland

**Sens Foundation recycling quota for the white goods appliances category (washing machines, ovens, range hoods, etc.):**

73% (according to 2024 annual report)

**Underlying data for the life cycle assessment**

**Country of manufacture** <sup>1)</sup>: Switzerland

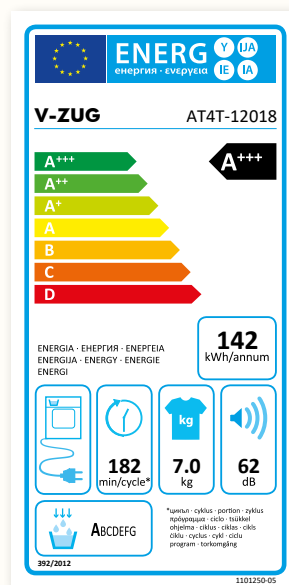
**Country of use** <sup>2)</sup>: Switzerland

**Electricity mix** <sup>3)</sup>: as per Swiss average: 181g CO<sub>2</sub>/kWh

**Usage behaviour:**

Adora: 160 cycles per year <sup>4)</sup> (programme mix: declaration programme, cotton programme that reduces 60% moisture to 0% corresponds to normal drying) over 15 years <sup>5)</sup>

Unimatic: 600 cycles per year <sup>4)</sup> (programme mix: declaration programme, cotton programme that reduces 60% moisture to 0% corresponds to normal drying) over 15 years <sup>5)</sup>



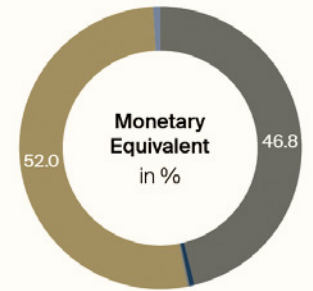
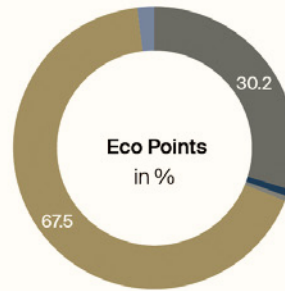
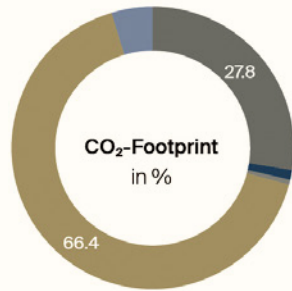
Example for AdoraDry V4000. All other energy labels are available at [vzug.com](http://vzug.com)

**Underlying data background:**

- 1) All appliances with the Swiss Made designation are manufactured in Switzerland. That applies to all Adora dishwashers.
- 2) The life cycle assessments relate to use of appliances in Switzerland with the corresponding Swiss electricity mix. If the appliance is used in another country, the corresponding results can be requested from V-ZUG.
- 3) The electricity mix is based on the Swiss average. The emissions from electricity consumption depend on electricity generation. The more sustainable and renewable electricity production is, the smaller the environmental footprint. This can vary significantly from one energy supplier to another. The influence of emissions caused by electricity production is very high.
- 4) Usage behaviour: average usage behaviour based on internal definitions is used for calculation. Sometimes this is based on service data, other times it is based on the regulatory requirements for the energy label assessment. Usage behaviour with regard to intensity and programme selection influenced the result considerably.
- 5) V-ZUG defines a theoretical lifespan in years for each product category; this is used as a basis to review the quality in development/production. As well as the lifespan in years, the number of cycles is relevant as well (AdoraDry is designed for 4,000 cycles, UnimaticDry for 15,000 cycles). But the lifespan in years depends on a number of different factors, intensity of use and care being the most crucial. The lifespan in years also includes potential repairs during this time and beyond. Great importance is attached to repairability (availability of spare parts and repair expertise in the service department).

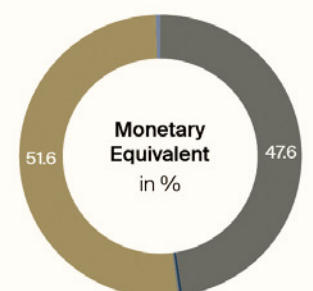
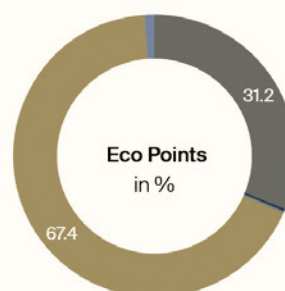
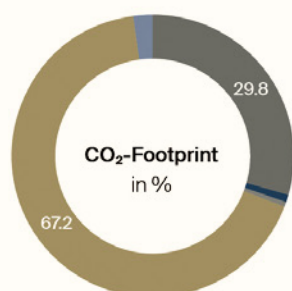
# Life cycle assessments (LCA)

AdoraDry V2000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>27.8   175</b>	<b>30.2   586,000</b>	<b>46.8   375</b>
● Packaging	0.8   5	0.4   8,640	0.4   3
● Transport	0.4   3	0.2   4,620	0.2   2
● Use - Electricity	66.4   417	67.5   1,310,000	52.0   417
● Recycling/Disposal	4.5   29	1.7   32,520	0.6   5
<b>Total (cradle-to-cradle)</b>	<b>100.0   628</b>	<b>100.0   1,941,780</b>	<b>100.0   802</b>

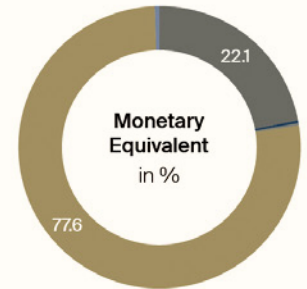
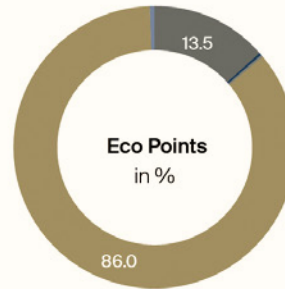
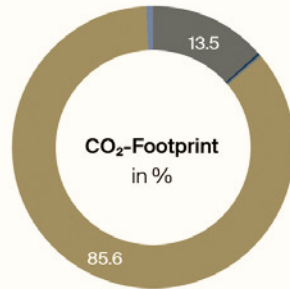
CombiAdoraDry V4000 (Dual Dry)



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>29.8   236</b>	<b>31.2   773,000</b>	<b>47.6   489</b>
● Packaging	0.7   5	0.3   8,660	0.3   3
● Transport	0.4   3	0.2   4,990	0.2   2
● Use - Electricity	67.2   531	67.4   1,670,000	51.6   531
● Recycling/Disposal	2.0   16	0.9   21,838	0.3   3
<b>Total (cradle-to-cradle)</b>	<b>100.0   791</b>	<b>100.0   2,478,488</b>	<b>100.0   1,028</b>

# Life cycle assessments (LCA)

UnimaticDry V4000



	in %   in kg CO <sub>2</sub> e	in %   in EP	in %   in CHF
● <b>Manufacturing (cradle-to-gate)</b>	<b>13.5   332</b>	<b>13.5   1,040,000</b>	<b>22.1   598</b>
● Packaging	0.1   2	0.1   4,230	0.1   2
● Transport	0.2   4	0.1   6,880	0.1   3
● Use - Electricity	85.6   2,110	86.0   6,610,000	77.6   2,100
● Recycling/Disposal	0.6   16	0.3   22,692	0.1   3
<b>Total (cradle-to-cradle)</b>	<b>100.0   2,464</b>	<b>100.0   7,683,802</b>	<b>100.0   2,705</b>

The values of the different models and items vary due to slight differences in design and energy efficiency. Please refer to the technical data on the website for the detailed value per model offered (in absolute figures, CO<sub>2</sub>, environmental impact points and monetary equivalent).

# Our commitment to sustainable products

## Across all products generally:

- How we design and refine appliances
  - Focus on quality and durability
  - Based on the principles of the circular economy
  - Ongoing improvement energy and water efficiency
  - Enabling reparability (up to 15 years' spare parts availability, extensive repair expertise extending beyond 15 years, competent service teams)
- How we manufacture the appliances
  - Use of 100% renewable electricity in our production operations in Switzerland (from Swiss hydroelectric power)
  - CO<sub>2</sub>-neutral production in Switzerland (ongoing reduction of footprint, offsetting residual emissions in the V-For-est (high-quality reforestation)
  - Internal CO<sub>2</sub> steering tax on scope 1+2 emissions (CHF 120/t CO<sub>2</sub>)
  - State-of-the-art production facilities and building
  - Advanced waste management
- Resilient and committed employees
- Assuming responsibility in supply chains (human rights, child labour, conflict minerals)
- Driving the transformation from a recycling economy to the circular economy
- Driving forward the decarbonisation of our own vehicle fleet (service vehicles, lorries)

## Specifically for the Adora tumble dryer:

- Built-in **heat pump** for increased energy efficiency in all models.
- All Adora appliances rank in the highest **energy efficiency classes**.
- **Eco Management feature** (preview of energy consumption). Helps with the programme selection and facilitates ecological use.
- **Push notifications** from the V-ZUG app and list feature for energy consumption.
- **Additional “energy saving” feature** – reduces compressor speed of all programmes. This saves additional energy while increasing the drying time. Can be set as a standard add-on in settings.
- Use of **high-quality materials** such as the chrome steel drum.
- **Low standby consumption** saves energy.



# Your contribution to a more sustainable use of our appliances

A large part of our environmental footprint is caused by the use of our appliances. V-ZUG supports an ecological use of the appliances with the following tips and hints:

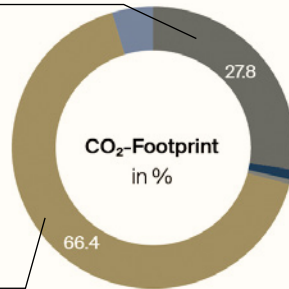
- **Drying without a dryer** – leave clothes to dry in the fresh air and make use of the free energy from the sun!
- Compare the electricity consumption of the individual programmes and **make an informed decision** as to which programme is required given the urgency (note EcoManagement).
- Spin washing **at high speed in the washing machine before drying**. Mechanical drainage in the washing machine is much more efficient than evaporating the water in the tumble dryer.
- **Clean the fluff filter and filter pads regularly**. Dirty fluff filters block airflow and reduce the efficiency of the appliance.

- **Use as much of the maximum load capacity** of the respective programme as possible.
- **Select the additional “energy saving” feature** if the programme duration doesn't matter.
- **Use appliances for as long as possible** and have them repaired in the event of a fault. When deciding whether to buy a new product or repair an existing one, take into account grey energy and progress in energy efficiency.
- Buy **renewable electricity** for your own household (contact your electricity provider), or produce your own electricity using a photovoltaic system.
- **Support the V-Forest** climate protection project: offset electricity consumption and the resulting CO<sub>2</sub> emissions through V-ZUG's CO<sub>2</sub> webshop ([Offsetting CO<sub>2</sub> with V-ZUG](#)).



# Summary

Manufacture is influenced primarily by V-ZUG



Use is influenced primarily by the user

AdoraDry V2000

● Manufacturing (cradle-to-gate)	27.8		175
● Packaging	0.8		5
● Transport	0.4		3
● Use - Electricity	66.4		417
● Recycling/Disposal	4.5		29
<b>Total (cradle-to-cradle)</b>	<b>100.0</b>		<b>628</b>

Use of high-quality materials such as the chrome steel drum

All Adora models rank in the highest energy efficiency classes

Additional “energy saving” feature – available for all standard programmes

Built-in heat pump boosts energy efficiency

Push notifications with consumption data promote ecological use

EcoManagement promotes ecological use



## Facts

- Swiss Made
- Focus on quality, durability and energy efficiency
- Designed for reparability and the circular economy
- State-of-the-art production facilities in Zug and Sulgen
- Responsible supply chains
- Resilient and committed employees

# Legal information



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