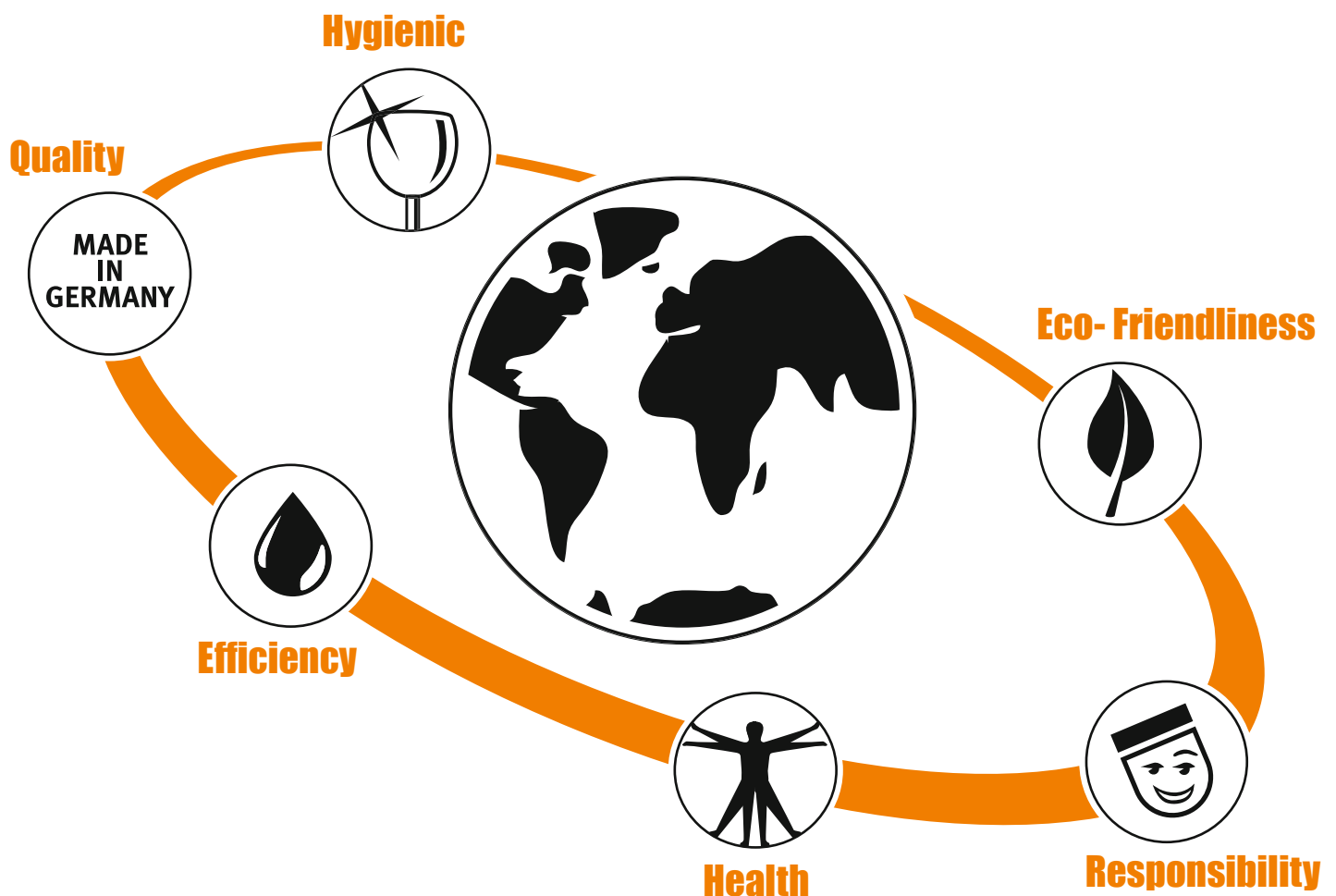




OPERATING COSTS – CHECK KNOW MORE. SAVE MORE!

SAVE MONEY. AND SAVE OUR PLANET!



OPERATING COSTS: WATER CONSUMPTION

Assumption: rinsing 40 glasses per hour, working time 8 hours, 30 days per month.

Basis of calculation: price of one cubic meter fresh water 2,- €, price of cubic meter sewage 2,77 € (German price index, source: Focus online 2023)

SPÜLBOY® GLASS WASHER



SPÜLBOY® glass washer combines spatially separated pre-washing and fresh water rinse systems in one device. This enables the application within one sink. At that SPÜLBOY® convinces with lowest and most efficient water consumption of 10cl per glass. A one-time initially filling is sufficient due to the continuous supply of fresh water released by each rinsing step.

CALCULATION:

- 40 glasses x 10cl x 8h = 40L/day
- 40L + 5L initial filling = 45L
- 45L x 30 days = 1,110L ~ 1.11m³/month
- 1.11m³ x 2 € = 2.20 € (fresh water)
- 1.11m³ x 2.77 € = 2.77 € (waste water)

total monthly water consumption: 1,110L
total water costs per month: 4.97 €

3-PIECE GLASS WASHING BRUSH



Cleaning glasses with a 3-piece washing brush legally requires two sinks. The first sink is needed to pre wash the glasses with the brush. The measurement of a standard sink is 40cm x 30cm x 40cm and the brush (height of the brush 25cm) has to be covered by water. This requires a volume of 41L. The water should be changed at least hourly. The second sink is to rinse the glass by fresh water. It requires a permanent circulation of fresh water to keep the water usable. This is done by a flush pipe and takes 750ml each minute.

CALCULATION:

- Pre-wash sink: 41L x 8 = 328L/day
- Rinse sink: 750ml x 60min = 45L/h
- Rinse sink: 45L x 8 = 360L
- + approx. 40L initial filling = 400L/day
- 728L x 30 days = 21,840L ~ 21.8m³/month
- 21.8m³ x 2 € = 43.60 € (fresh water)
- 21.8m³ x 2,77 € = 60.39 € (waste water)

total monthly water consumption: 21,840L
total water costs per month: 103.99 €

ELECTR. GLASS WASHING MACHINE



An electrical glass washing machine is automatically filled up with water (initial filling 16L). An average wash cycle takes about 120-180 seconds. The basket of the tested device can take up 20 glasses. The tested glass washing machine takes 6L each washing cycle.

CALCULATION:

- 20 glasses ~ 6L x 2 = 12L for 40 glasses
- 12L x 8 = 96L/day
- 96L + 16L = 112L
- 112L x 30 days = 3,360L ~ 3.4m³/month
- 3.4m³ x 2 € = 6.80 € (fresh water)
- 3.4m³ x 2.77 € = 9.42 € (waste water)

total monthly water consumption: 3,360L
Total water costs per month: 16.22 €



OPERATING COSTS – CHECK 3

OPERATING COSTS: ELECTRICITY

Assumption: rinsing 40 glasses per hour, working time 8 hours, 30 days per month.

Basis of calculation: price of one kilowatt hour 0,40 € (German price index 2023, source: www.verivox.de)

SPÜLBOY® GLASS WASHER



SPÜLBOY® glass washer work

- completely without electricity
- environmental friendly
- with lowest water consumption

The effectiveness and cleaning performance is granted by the combination of fresh, cold water, our special SPÜLBOY® glass washing tabs and especially the mechanical abrasion forces of the brush at the glasses inner and outer side.

monthly power consumption: 0kWh
total costs for electricity per month: 0 €

3-PIECE GLASS WASHING BRUSH



The application of a 3-piece brush requires two sinks and a continuously water supply

- needs no electricity

Cleaning by a 3-piece brush does not require any electricity but achieves a satisfying cleaning result only under a lot of effort of water and detergents. An additional cleaning step is required as the brush doesn't allow an abrasion all around the glass.

monthly power consumption: 0kWh
total costs for electricity per month: 0 €

ELECTR. GLASS WASHING MACHINE



The tested glass washing machine with 6kW consumes

- 20 glasses each basket
- Operating time per day (8h): 16 wash cycles of 3min each -> 48min (0,8h)/day
- Costs per kWh: 0,40 €

CALCULATION:

- $6,000W \times 0,8h = 4.800W = 4.8kWh$
- $4.8kWh \times 30 \text{ days} = 144kWh$
- $144kWh \times 0.40 \text{ €} = 57.60 \text{ €}$

monthly power consumption: 144kWh
total costs for electricity per month: 57.60 €

OPERATING COSTS: DETERGENTS & CHEMICALS

Assumption: rinsing 40 glasses per hour, working time 8 hours.

Basis of calculation: 30 days per month. The price information is based on average values.

SPÜLBOY® GLASS WASHER



One (1) original SPÜLBOY NU® glass washing tab grants hygienic clean results for approx. 4 hours. 1 can of NU® tabs: 15,90 € (100pcs.)

CALCULATION:

- 15.90 € : 100
- 1 tab = 0.16 €
- 2 tabs at 0.16 € each = 0.32 €/day

To clean, disinfect and maintain the brushes we recommend to use our special SPÜLBOY NU® sanitizer powder (clean central brush and brush strip) at least every day. Each application needs 30g. 1 can of NU® sanitizer powder: 9.40 € (750g)

CALCULATION SANITIZER POWDER:

- 9.40 €/750g = 0.0125 €/g
- 0.0125 € x 30g = 0.38 €

SUM UP:

0.32 € (tabs) + 0.38 € (powder) = 0.70 €/day

3-PIECE GLASS WASHING BRUSH



For the cleaning procedure with a 3-piece brush a liquid glass washing chemical is usually used. To reach proper effects at least 10ml liquid should be added to 41,6L water (pre-rinse sink). 1L liquid glass washing chemical: 12.50 €.

CALCULATION:

- 12.50 €/1,000 = 0.013 €/month
- 0.013 € x 10ml = 0.13 €/dosage
- flushing water change 1x hourly
- 0.13 € x 8h
- Detergent costs = 1.04 €/day

It is also necessary to clean and disinfect the brush. For that we recommend to use our special NU® sanitizer at least every day:

CALCULATION SANITIZER POWDER:

- 9.40 €/750g = 0.0125 €/g
- 0.0125 € x 30g = 0.38 €

SUM UP:

1.04 € (liquid) + 0.38 € (powder) = 1.42 €/day

ELECTR. GLASS WASHING MACHINE



Electrical glass washing machines need

- rinse aid -> 10L: 50.50 € = 0.005 €/ml
- cleanser -> 10L: 42.90 € = 0.004 €/ml
- salt -> 2,000g: 3.15 € = 0.0016 €/g

The tested machine consumes

- rinse aid: 0.65ml each liter passed through
- cleanser: 0.70ml each liter passed through
- salt: 12.5g each wash cycle

The tested machine has a water passage of 6L each washing cycle.

CALCULATION RINSE AID:

- 0.65ml x 6L = 3.9ml each wash cycle
- 3.9ml x 0.005 € = 0.020 €
- 0.020 x 16 = 0.32 €/day rinse aid

CALCULATION CLEANSER:

- 0.70ml x 6L = 4.2ml each wash cycle
- 4.2ml x 0.004 € = 0.017 €
- 0.017 € x 16 = 0.27 €/day cleanser

CALCULATION SALT:

- 3.15 €/2,000g = 0.0016 €/g
- 0.0016 € x 12.5 x 16 = 0.32 €/day salt

SUM UP:

0.32 € (rinse aid) + 0.27 € (cleanser)
+ 0.32 € (salt)

total costs for detergents & chemicals
per month: 21 €

total costs for detergents & chemicals
per month: 42.60 €

total costs for detergents & chemicals
per month: 27.30 €



OPERATING COSTS – CHECK 5

SPÜLBOY® GLASS WASHER



3-PIECE GLASS WASHING BRUSH



ELECTR. GLASS WASHING MACHINE



A INVEST

The price information is based on average values.

SPÜLBOY® GLASS WASHER ASSUMPTION: SERVICE PERIOD 3 YEARS

CALCULATION:

- SPÜLBOY®: 139 €
- installation: 0 €
- total costs: 139 €
- **139 € / 36 months = 3.86 €/month**

investment per month: 3.86 €

3-PIECE GLASS WASHING BRUSH NEW PURCHASE EVERY 2 MONTHS

CALCULATION:

- 3-piece brush 3 x 25cm: 9.50 €
- installation: 0 €
- total costs: 9.50 €
- **9.50 € x 6 / 12 months = 4.75 €/month**

investment per month: 4.75 €

TESTED ELECTR. GLASS WASHING MACHINE ASSUMPTION: SERVICE PERIOD 5 YEARS

CALCULATION:

- glass washing machine: 2,980 €
- installation, setting, instruction: approx. 320 €
- delivery (if necessary) approx. 50 € (not taken into account)
- total costs: 3,300 €
- **3,300 € / 60 months = 55 €/month**

investment per month: 55 €

* The price information is based on average values.

B REPLACEMENTS & MAINTENANCE

CALCULATION:

- 2x brush head: 9.60 €
- 1x middle brush: 14.70 €
- 1x brush strip: 18 €
- external service fees: 0 €
- **42.30 € / 12 months = 3.53 €/month**

costs per month
replacements & maintenance: 3.53 €

CALCULATION:

- none
- external service fees: 0 €
- **total costs: 0 €**

costs per month
replacements & maintenance: 0 €

CALCULATION:

- according to manufacture minimum twice a year maintenance service by external professionals: approx. 150 €
- plus extraordinary repairs (not taken into account)
- total costs: 300 € net
- **300 € / 12 months = 25 €/month**

costs per month
replacements & maintenance: 25 €

monthly investment: 3.86 €
monthly costs for maintenance: 3.53 €

total costs per month: 7.39 €

monthly investment: 4.75 €
monthly costs for maintenance: 0 €

total costs per month: 4.75 €

monthly investment: 55 €
monthly costs for maintenance: 25 €

total costs per month: 80 €

CLEAR ADVANTAGE FOR SPÜLBOY®

SPÜLBOY® GLASS WASHER



- **Operating costs I:**
Water consumption: 5.29 €/month
- **Operating costs II:**
Electricity: 0 €/Monat
- **Operating costs III:**
Detergents & Chemicals: 21 €/month
- **Operating costs IV:**
Investment: 3.68 €/month
Maintenance: 3.53 €/month

Total monthly costs:

33.50 €

3-PIECE GLASS WASHING BRUSH



- **Operating costs I:**
Water consumption: 103.99 €/month
- **Operating costs II:**
Electricity: 0 €/month
- **Operating costs III:**
Detergents & Chemicals: 42.60 €/month
- **Operating costs IV:**
Investment: 4.75 €/month
Maintenance: 0 €/month

Total monthly costs:

151.34 €

ELECTR. GLASS WASHING MACHINE



- **Operating costs I:**
Water consumption: 16.22 €/month
- **Operating costs II:**
Electricity: 57.60 €/month
- **Operating costs III:**
Detergents & Chemicals: 27.30 €/month
- **Operating costs IV:**
Investment: 55 €/month
Maintenance: 25 €/month

Total monthly costs:

181.12 €

**THINK NEW.
CLEAN GREEN!**