VaLoo

REQUIREMENTS

Space
0.05 m², 0.1 m³/p.e. for backend technologies
(in total 1 m², 2 m³)

Energy use
0.05 kWh/day/p.e.
(in total 1 kWh/day)

Cost
n/a

Operations & Maintenance
By exhibition curation team on-site (architects), monthly maintanance (development engineers)

TARGET OUTPUT

Compost
To be used as a soil improvement on local farmers fields
(16 kg/p.e./year)

Dry NPK fertilizer
Could be used as a fertilizer for local greenery
(25 kg/p.e./year)

Treated water
The treated water is reused on site to wash hands
(About 60 l/day)

eawag aquatic research
Greywater treatement by Eawag

IDRO GROUP
Greywater treatement by IDRO Group s.r.l.

ogmo sanitation anywhere
Urine treatement by ogmo

finizio
Feces & urine collection by Finizio GmbH

urin*all
Urine collection by Leonie Roth and Luisa Tschumi

Feces treatement by local farmer

① Image: Juliane Gerb (Arch+ and Summacumfemmer)
Graphic: Delia Gregori

p.e. = Population Equivalent
CAPEX = Capital Expenses

German Pavilion at the Venice Biennale

May – November 2023
15-20 exhibition visitors per day

As part of the 18th Architectural Biennale di Venezia, a completely autonomous working washroom was installed as a combined exhibition and living lab in the German Pavilion. Two novel waterless toilet systems served as frontends for an on-site urine treatment system and a feces collection at the backend. Handwashing water was treated by a reverse osmosis unit and reused on-site.

Giardini della Biennale, Sestiere Castello 1260, 30122 Venice, Italy