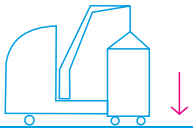
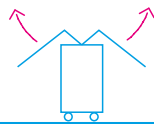


# 006 Eco Unit

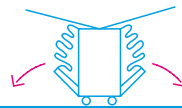
Issues of sanitation and hygiene still remain one of the main concerns for developing countries. Designed to assist in this widespread need and as a tool for hygiene education, 'Eco Unit' is a mobile hygiene unit, easily transportable by truck, to be placed in villages without potable water access. Supplying solutions developed for the International Space Station, the unit is equipped with systems for water purification and recycling, and also uses energy from the sun and derived from waste valorization.



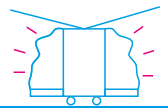
1. TRANSPORT AND PLACEMENT



2. ROOF DEPLOYMENT



3. FLOOR DEPLOYMENT



4. INFLATION



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# 006 Eco Unit

## ■ CHARACTERISTICS

**Background:** 1.1 billion people in the world lack access to safe water, 2.4 billion people in the world do not have access to adequate sanitation (UNESCO)

**Objectives:** Provide safe water and sanitation in remote areas

**Concept:** A mobile water collecting and recycling unit using space technologies powered by local resources

**Materials:** Aluminum, wood, ETFE film

**Structure:** 3 elements contain the water treatment system and the sanitary facility, with faucet, shower and toilet

**Technologies:** Liquid-solid separation; composting and other eco sanitation

**Energy:** Solar power and manual work

**Operation:** solar-powered batteries

**Assembly:** 3 hours, 2 persons; fold-out elements and inflatable parts

**Dimensions:** Transport 2.5x2.5, h 3 m; installed 7 x 10 m, h 3.8 m

**Weight:** 600 kg

## ■ CREDITS

**Design Team:** Architecture and Vision - Arturo Vittori

**Illustrations:** Alessandro Natalini

**Public Relations:** Céline Laurière, Maddalena dalla Mura

**Renderings:** Jean-Francois Jacq

