

Clean Drinking Water for everyone



Clean Drinking Water for Developing countries

A project proposal
by
SALESAN Association

Facts

- Five Million people die worldwide each year due to lack of clean drinking water

Source: WHO2008

Reason why

- No access to clean water
- Water from shallow wells contaminated
- Lack of hygiene and sanitation
- Heating with gas or charcoal expensive
- Cultural Tradition

Possible solution (1)

- Solar Disinfection
 - Ultraviolet radiation
kills bacteria cells
 - Infrared rays
heats the water and destroys pathogenic microorganism

Possible Solution (2)

- Water filter
 - discolour and impart smell and taste in Water
 - Removes sand and small particles
 - Renders potable water by removing about 75 % of pathogens

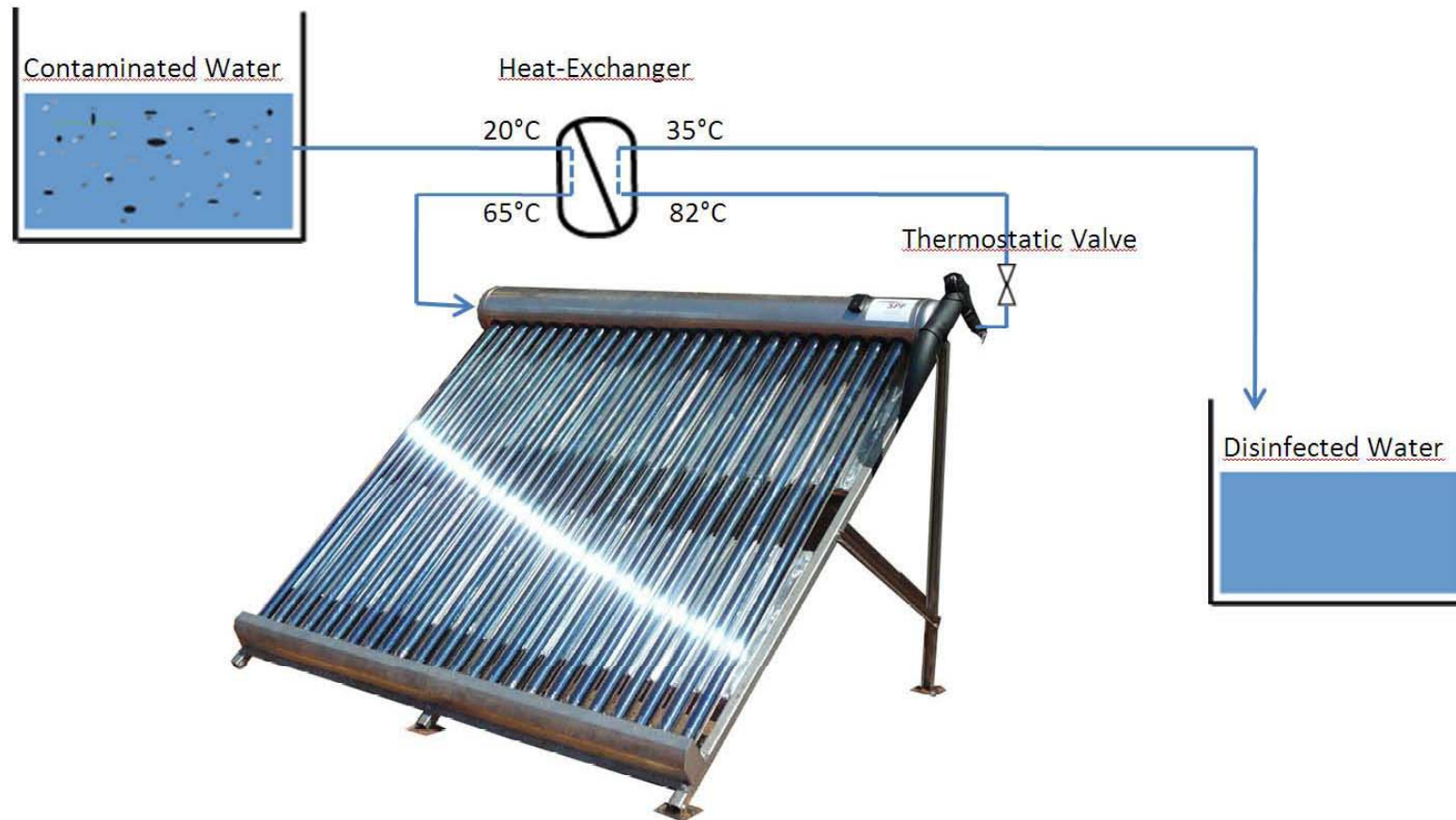
Criteria for Water purification system

- Simple and reliable
- Installation by local trained personnel
- local available material
- Service and maintenance by locals
- Capacity 400 lt/day or more
- Inexpensive , below USD 1'000

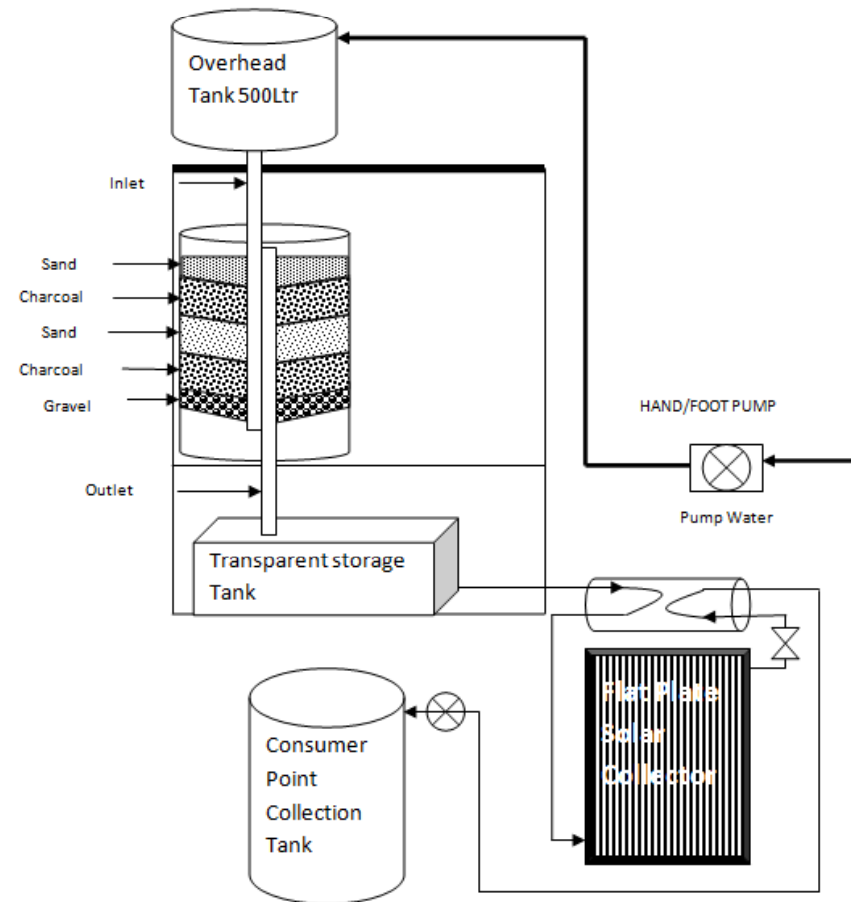
Simple Water purification System

- Technology developed by :
- Techn. Hochschule Rapperswil (HSR)
- “SoWaDis Project”
- Local adaption by:
- Solar Works E.A, Nairobi

The System (SoWaDis)



Solar Works System



Advantages

- Clean, discoloured water
- Free of pathogenic microorganism
- Easy to install and low maintenance
- Transfer of Know How to local entrepreneurs
- Sustainable and appropriate technology
- Affordable pricing

Current Status

- Technically developed system
- Pilot system in operation
- Adaptation for local assembly
- Interest from Government and NGO's
- Demand from schools and Health centres

Next steps

- Transfer from pilot to production
- Quality of water survive over months period
- Transfer of Know How to local entrepreneurs
- Detailed manual for setting up system
- Description for local filter system

Financial

- The financial requirements for:
 - Pilot to Production
 - Transfer of Know How
 - Survey quality of waterwill be USD 40'000

SALESAN Association

***SALESAN works with people in Africa
to make a brighter future***

Improving the quality of life

Clean Water

Child Education

Professional Training

Thank you

SALESAN Association

Talbachstr 65

CH-8852 Altendorf

Werner B. Mueller, President

Tel.: +41 55 462 10 31

e-Mail : info@salesan.ch

www.salesan.ch

-