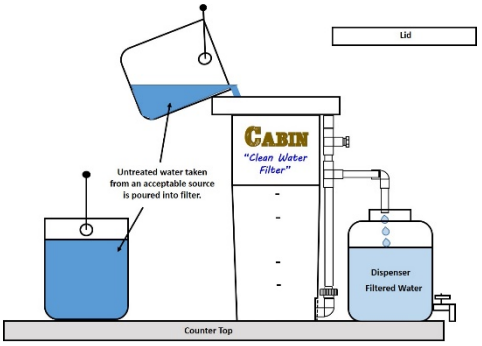
Rural Water Treatment

Virtually all rural communities in Central and South America, the Caribbean, Africa, Middle East, Asia and Eastern Europe do not have access to safe drinking water. Many rural and remote regions of developed countries experience the same problem. Many will not even have access to sufficient water.

All sources of water commonly available are not safe to drink and likely never were. These sources include: all lakes (glacier fed or not), dams and reservoirs, rivers and streams, springs, shallow and deep wells regardless of construction method. Unprotected deep wells will inevitably be contaminated. Water collected using some form of rainwater harvesting or snow and ice melt, unless consumed immediately after capture, cannot be considered safe.



One of the myths often repeated is 'people become accustomed or somehow adapt to the consumption of unsafe water'. Nothing is further from the truth. Diseases caused by consumption of unsafe water may have life-threatening or fatal symptoms resulting in very high rates of infant mortality. Those who do not experience the same severity of symptoms may still be immunity compromised but appear to live full lives.

Improved health decreases demand on limited personal income and resources and government provided health services.

How can the CABIN 'Clean Water Filter' help?

- **The CABIN 'Clean Water Filter' is the most effective point-of-use system for treating water in rural communities. It gains immediate acceptance with those using it, despite the recommendation for post filtration chlorination.**
- **The CABIN 'Clean Water Filter' is best introduced using some form of public-private-partnership. Any form of government support would be recognized by the community. Businesses can manage the administration of product acquisition, distribution and technical support; and responsible government agencies can manage all other support and educational systems. It may be appropriate to recruit NGOs**

with expertise in providing community education pertaining to water, sanitation and hygiene issues.

- There are business opportunities for any company wishing to introduce the CABIN 'Clean Water Filter' to their communities particularly, if the urban communities are considered the primary market.
- Should a government wish to implement the introduction of the CABIN 'Clean Water Filter' independently they can work directly from Davnor Water Filters Ltd. The CABIN 'Clean Water Filter' can be shipped in 20-foot shipping containers each holding 800 filters complete with media (approximately 1,200 without media) or 40-foot shipping containers each holding 1,500 filters complete with media (or 2,400 without media). Note that it may be possible to source media at destination. The filters must be received by a responsible local authority. Training pertaining to filter use and program implementation are essential and can be provided by Davnor Water Filters Ltd.
- Acceptance within the urban community will automatically result with acceptance in the rural communities.

Advantages of the CABIN 'Clean Water Filter' include:

- Sand filters of this type have a proven 'acceptance' within communities.
- Health benefits to communities demonstrated by several independent reputable studies.
- Proven technology. All claims supported by independent studies.
- Production of large amounts of safe water in a short time period.
- Compact and light weight. Easily transported and distributed.
- Rugged.
- Unlimited shelf-life. Efficacy of unused filter does not decrease with time.
- Simple to use and maintain correctly.
- Very little or no maintenance.
- No chemicals.
- No need for electricity.
- Inexpensive.