New Water Treatment Unit Provides Clean Water in SCHOOLS AND CLINICS

By Trunz Water Systems

The ultrafiltration membrane removes all virus and bacteria, without requiring toxic chemical treatment, and retaining the natural minerals in the water.

Safe drinking water is the first step to health improvement and leads to better quality of life in general, less water borne diseases and fewer absences among students.

The new developed water treatment plant for stationary use 'Trunz Wall Mounted' (TWM 001) is designed for interior applications as for example schools and clinics.

Figure 1: Trunz Wall Mounted 001

Figure 2: Students from Akal Academy Enjoying Clean Drinking Water

Figure 3: Girls from Akal Academy Enjoying Clean Drinking Water

Figure 4: Formal Inauguration at the Reet Kheri Akal Academy - I

Performance of the New Developed Product

The Trunz Wall Mounted purifies fresh water using an ultra-filtration process to remove biological contamination. The ultrafiltration membrane removes all virus and bacteria, without requiring toxic chemical treatment, and retaining the natural minerals in the water.

All product water exceeds WHO (World Health Organization) standards for drinking water. The unit has a production capacity of up to 600 liters per hour with a low energy consumption, using just 115W of power and is engineered to operate using grid power, solar power or back-up generator.

The Trunz Wall Mounted is very compact, easy to install and operate. It is fully automated to produce water on demand, as consumption requires.

CSR Project in India

Trunz Water System's authorized representative for India, Aqua Infinitum GmbH, has committed to a long term project with the Kalgidhar Society to implement the new water purification unit in 120 Akal Academy locations.

The Akal Academies are located in five States of Northern India. The objective of the installations is to provide students, faculty and visitors with a safe source of purified drinking water. Currently there are 86,000 students and there is a capability to expand to 220,000 students within the existing facilities.

☞ www.trunzwatersystems.com

The first phase of the project will see more than 2000 students aged from 5 to 18 immediately benefiting from the daily supply of safe, purified drinking water at their school.

☞ www.aquainfinitum.com

Installation, Operation and Maintenance

In a first step, four units were installed in four different Akal Academies. A Trunz technician provided onsite installation for the initial units

Figure 5: Formal Inauguration at the Reet Kheri Akal Academy – II

Figure 6: Installation of Trunz Wall Mounted (TWM 001)

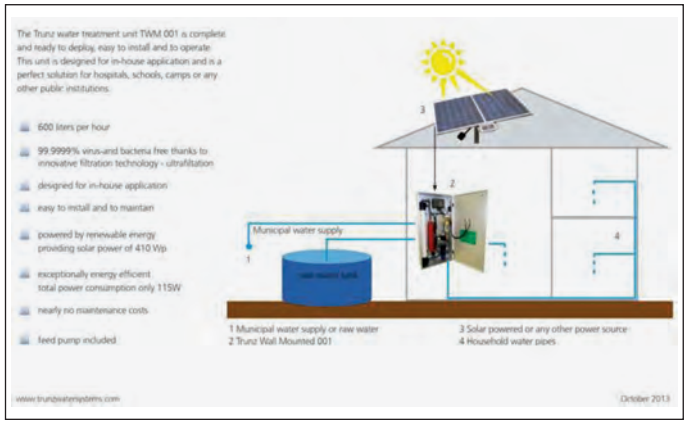

Figure 7: Technical Layout of Trunz Wall Mounted (TWM 001)

and at the same time conducted a training program for the Kalgidhar Society professors and students covering the installation of the Trunz equipment, maintenance and operation of the Trunz Wall Mounted units.

This structure keeps the costs to a minimum and also creates an exceptional educational experience, introducing professors and students to the Trunz water purification technology. ☞ www.barusahib.org

Each water station is installed in a central location within the Academy and ensures access to safe drinking water for all students, faculty and visitors.

About the Contributor

Trunz Water Systems, a Swiss based company, develops, manufactures and distributes sustainable and cost effective solutions for water purification and desalination as well as solar power centers. The company offers sustainable solutions for the decentralized potable water and electricity supply in remote areas. The units are exceptionally energy efficient, independent, compact and environmentally friendly. Up to now, over 750 Trunz Water Systems are already operating in more than 35 countries all over the world. All of the water treatment systems are low maintenance and easy to install. The capacity depends on the raw water quality and ranges from 2000 to 100000 liters a day. Trunz' innovative and environmentally friendly technology produces clean drinking water from polluted water and salt water with solar and/or wind energy. An ultrafiltration membrane or a reverse osmosis system (for sea or brackish water) removes all virus and bacteria (and salts) without requiring toxic chemical treatment.

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