



chemapan c.c.

Chemapan's potable water treatment plant in a 6.0 metre container.

Chemapan developed a medium size potable water plant that can convert raw river or dam water into World health organisation standard drinking water at up to 11 cubic meters (11000 litres) per hour.

The Aquapak 6.0 can produce up to 288000 litres of drinking water a day from a raw water source that has less than 100 NTU turbidity and total dissolved solids of less than 500 ppm.

The unit can supply sufficient water for a community of up to 2800 people at 100 litres/person/day.

The unit has a complete chemical pre treatment before the Settlers to help the dirt to settle. The settled water is then pumped through dual media filters and clean water is produced out the other side.

A secondary injection of chlorine kills bacteria, viruses and fungi in the water, rendering it safe to drink.



*Aquapak 6.0: External dimensions of container are;
H- 2440 mm, W - 6000 mm, L- 2350 mm.*



Water is Life!

Advantages of the Aquapak 6.0 m Container plant.

- * Low cost per 1000 l of water produced.
- * Filter is backwashable and media does not need replacement for many years.
- * Simple to operate.
- * Suitable for 1000 - 6000 people.
- * Low capital cost.
- * Can pump clean water into a tank at a height of up to 8m above the Aquapak 6.0 m.
- * Can transfer clean water to tankers from clean water tank.

Details:

- * Filter feed pump is a 0.75 kW 380 v 50 Hz 3 phase unit.
- * Twin head metering pump can feed up to 5 l/hr per head; and is fully adjustable on both heads.
- * 2000 mm GRP Clarifier either as a sludge blanket settler or as a inclined plate clarifier.
- * Filter Media is 800mm deep. The bottom layer consists of 400mm by 0.5mm to 0.69mm Silica sand. The top layer of 400mm by 0.8mm to 1.5mm Anthracite.

A clear sightglass in the discharge side of the system helps the operator to visually see the clarity of the final water before feeding into the clean water storage tank.

A small water test kit is also supplied for periodic testing of the residual chlorine level and pH in the final clean water.

| | AquaPak 6.0 DFF | AquaPak 6.0 SB Settler | AquaPak 6.0 LME Lamella Clarifier. |
|-----------------|-----------------|------------------------|------------------------------------|
| Daily Flowrate | 288000 l/24 h | 128000 L/24 h | 176000 l/24 h |
| No. of people @ | | | |
| 200 l/p/day | 1440 people | 640 people | 880 people |
| 500 l/p/day | 576 people | 256 people | 352 people |
| 800 l/p/day | 360 people | 160 people | 220 people |

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