



chemapan c.c.

Chemapan's potable water treatment plant in a 12.0 metre container.

Chemapan developed a larger potable water plant that can convert raw river or dam water into World health organisation standard drinking water at up to 36 cubic meters (36 000 litres) per hour.

The Aquapak 12.0 can produce up to 800000 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 6000 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 12.0: External dimensions of container are;
H- 2440 mm, W - 12000 mm, L- 2350 mm.*



Water is Life!

Advantages of the Aquapak 12.0 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 3000 - 8000 people.
- * Low capital cost.
- * Can pump clean water into a tank at a height of up to 8m above the Aquapak 12.0 m.
- * Can transfer clean water to tankers from clean water tank.

Details:

- * Filter feed pump is a 2.2 kW 380 v 50 Hz 3 phase unit.
- * Twin head metering pump can feed up to 14 l/hr per head; and is fully adjustable on both heads.
- * 2200 mm GRP Clarifiers either as a sludge blanket settlers or as inclined plate clarifiers.
- * 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 12.0 DFF	AquaPak 12.0 SB Settler	AquaPak 12.0 LME Lamella Clarifier.
Daily Flowrate	800000 l/24 h	250 000 L/24 h	660000 l/24 h
People @ 100 l/p/d	8000 people	2500 people	6600 people
200 l/p/day	4000 people	1250 people	3300 people
500 l/p/day	1600 people	650 people	1650 people
800 l/p/day	1000 people	325 people	825 people

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