

COMPACT MODULAR **DRINKING WATER TREATMENT PLANTS**



APPLICATIONS AND ADVANTAGES

- * Small Communities and Villages,
- * Construction Sites,
- * Military Camps and Farms,
- * Proven Practical and Economic Solutions for Locations with Resident or Transient Populations,
- * Extremely Compact and Efficient,
- * Safe and Hygienic,
- * Flexible to Population Fluctuations,
- * Quick Start - Up Robust Operation,
- * Minimum Attendance,
- * Excellent Treatment Efficiency.



1. AQUA PAK / A

This unit has the following processes;

FLOCCULATION
SEDIMENTATION
SAND FILTRATION
DISINFECTION

The water pumped from the source will be mixed with a flocculation agent being alum as standard and the flock will be settled in the sedimentation part. The clarified water than will pass from a sand filter which operates automatically and disinfected with chlorine. The result is removal of Turbidity and color so that the water is clear and colorless.



2. AQUA PAK / B

This unit has the following processes;

FLOCCULATION
SEDIMENTATION
SAND FILTRATION
ACTIVE CARBON FILTRATION
DISINFECTION

The water pumped from the source will be mixed with a flocculation agent being alum as standard and the flock will be settled in the sedimentation part. The clarified water than will pass from a sand filter which operates automatically and disinfected with chlorine. The result is removal of Turbidity, chlorine sediment organic compounds (VOCs) and color so that the water is clear and colorless.



SYSTEM

AQUAPACK / A - B Compact Modular Drinking Water Treatment Plants are installed in containers and they are almost ready to operate. All surface waters, except salty water can be treated in the system. Depending on the analysis of the water to be treated A or B type may be installed.

Further explanation and selection of the type to be used can be selected after studying the complete analysis of the water to be treated.

EQUIPMENT

The Basic System comprises the following part.

Complete Mild Steel Tank including.

- Static Mixer
- Flocculation
- Alum Dosing Tanks
- Alum Dosing Pumps
- Chlorination Storage Tank
- Chlorination Dosing Pumps
- Flocculation with Mechanical Mixer (Type A)
- Tubular Flocculation (Type B)
- Sand Filter Feed Pumps
- Sand Filters
- Activated Carbon Filters (Type B)



- Micronics Filters (Type B)
- Chlorination / UV Disinfection System
- Compressor
- Electrical Control Panel

OPERATION

Surface water will be pumped to the container by submersible drainage pump. The chemicals are dosed to the water and it is taken to the specially designed coagulation flocculation unit. Water passes to the sedimentation tank and to the intermediate collection tank.

From the intermediate collection tank:

The water is pumped via mono block pumps to sand filter, activated carbon filter, and Micronics filter depending on the type selected.

Water then passes through chlorination system or ultraviolet lamps for disinfecting and is ready to use.

System may be controlled by a PLC and each of the equipments has a stand by alternative.

3. AQUA FILT

This unit has the following processes;

FINE FILTRATION
UV DISINFECTION

The water pumped from the source may be contaminated with the residues in the long pipe lines.

Aqua Filt will be a perfect solution before the water reaches to the final consumer.

The water before it is delivered to the end user will pass a series of micro filtration, controlled chlorine injection and final UV disinfection.

The result is removal of particles and residuals in long pipelines, disinfection for safe drinking water.

SYSTEM

AQUA FILT is a portable filtration and disinfection system which can immediately put into operation.

The water pumped from the source is directly coupled to the AQUA FILT and the system runs automatically, filters the water down to 2 micron, disinfect the incoming water with high efficiency UV filtration equipment and delivers safe and germ free water to the end user.

EQUIPMENT

The Basic System comprises the following part.
Complete SS cabinet including.

- Pre chlorination
- 2 lines of 50/20 micron filtration depending on the influent water quality
- 2 lines of 5/2 micron filtration
- 2 lines of full automatic high efficiency UV disinfection





DIMENSIONS

Designs of the AQUA - PAK A / B systems are based on to give effluent criteria complying with WHO values for potable water.
Further enhanced effluent qualities can be achieved upon request.

Model	Flow (m ³ /hour)	Dimensions			Number of Container	Installed Power (kW)
		Lenght (m)	Width (m)	Height (m)		
AQUA 25	25	12,2	2,4	2,6	1	142
AQUA 30	30	12,2	2,4	2,6	1	142
AQUA 50	50	12,2	2,4	2,6	2	168
		6,0	2,4	2,6		
AQUA 100	100	6,0	2,4	2,6	3	311
		6,0	2,4	2,6		
		12,2	2,4	2,6		
AQUA 200	200	12,2	2,4	2,6	3	595
		12,2	2,4	2,6		
		12,2	2,4	2,6		

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