Aquarius & Waterboy
Package Water Treatment Plants
Economical Aquarius®

Flocculation, Sedimentation and Filtration in Packaged Configuration

Water filtration using the Aquarius® system provides high quality water treatment with minimal footprint and ceiling height. Automated system assures quality while packaged system minimizes installation costs.

**Aquarius® systems provide you:**
- 350 to 1400 gmp treatment per system
- Modular construction
- Dual tanks for redundancy
- Effective removal of turbidity, color, iron, manganese and arsenic
- Automatic operation by PLC and Aquaritrol® chemical optimization

The Aquarius® System: Microfloc Aquarius™ systems minimize size and cost and maximize efficiency and performance. It is one of the many packaged water treatment systems to solve your plant needs.

Growing Installation Base: Introduced in 1967, the number of locations are realizing that the benefits are growing. More than 300 units have been sold to date.

How it works: The modular Aquarius® unit consists of two complete process trains to permit uninterrupted water service, even when one module is being backwashed. Aquarius units are supplied with chemical pumps to feed coagulant and polymer. Each process train includes two-stage flocculators with adjustable blades. The settling compartment is equipped with horizontal tube settlers and flow distribution baffles. The filter compartment utilizes MULTIBLOCK® underdrains, mixed media, air wash, and level controls. A double bulkhead between the filter and settler eliminates the possibility of unfiltered water reaching the plant outlet. Automatic operation is by a PLC with integral Aquaritrol® Process providing chemical optimization.

**Applications**
- Surface Water Treatment
- Municipal Industrial

**Features**
- Modular construction
- Two complete process trains
- Automatic operation
- High treatment rate
- Aquaritrol® chemical control

**Benefits**
- Lower installation costs and time
- Uninterrupted water service
- Less operator attention and higher quality effluent
- Automatic chemical feed optimization
- Less building space
Packaged Water Boy™ System

Delivers Small Flow Treatment

Water Boy™ is a smaller version of the Aquarius more suitable for small communities, low flow industrial applications, resorts, and recreation sites.

Water Boy™ provides you:

- Small footprint
- Complete self-contained treatment
- Full factory assembly
- Economical installation and operation
- Four standard sizes for 10-100 gpm (2.3-23 m³/hr) per unit

Standard units include single stage flocculation with optional two-stage available. Compact footprint and complete factory assembly and testing make this an ideal water treatment unit for small systems.

Since its introduction, more than 400 Water Boy units have been installed to date.

Features

- Pre-engineered design
- Factory assembled
- Flocculation, tube settling chamber, and mixed media filter all in one module
- Mixed-media filtration
- Minimizes design costs
- Minimizes installation costs and time
- Highly mobile
- “Plug-and-play” operation
- Smaller footprint compared to applicable conventional equipment
- High-rate, high-performance filter bed
- Long filter runs
- Better effluent quality

Tube settlers improve the clarification process by decreasing the distance a particle falls to settle out of the water stream. Plastic sheets are form approximate 2” diameter openings which run diagonally from bottom to top. The angle of incline determines maximum settling distance and available surface area. Today, most tube settlers use an angle of 60 degrees which allows settled sludge to automatically discharge from the bottom of the tube settler. This also requires a sludge removal system below the tube settlers to remove the sludge from the system. In small basins a passive header-lateral design is often used while a moving sludge removal header system is commonly applied in large basins.