

PACKAGED TREATMENT PLANT – Headworks

Screening, grit removal, grease removal, washing and compaction in one factory-built unit. Complete pre-treatment, plug and play.



Factory-built,
plug and play



One footprint,
full headworks



PLC, HMI
and SCADA-ready



Call Us Today
1-855-650-2214



Email Us
info@aqualitec.com

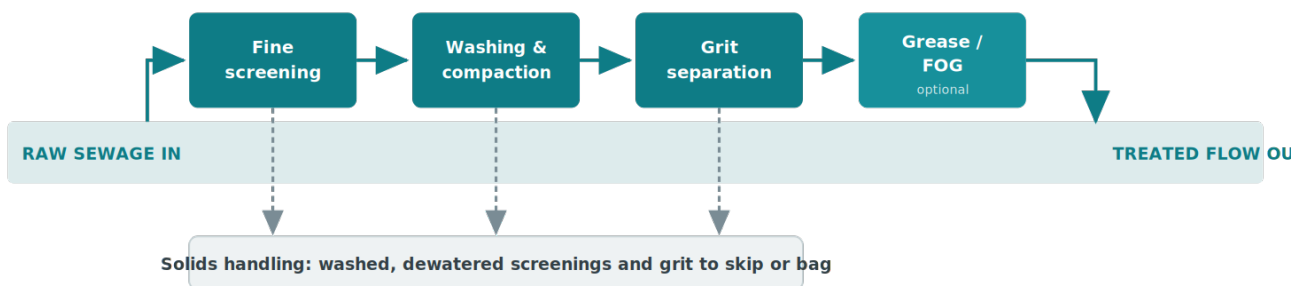


Aqualitec Corp. - 3415 S. Sepulveda Blvd,
Suite 1100, Los Angeles, CA 90034

OPERATING MODE

The Aqualitec Packaged Treatment Plant is a complete headworks in one self-contained stainless steel unit. Fine screening, screenings washing and compaction, grit separation, grease removal and solids handling are all integrated into a single structure.

As a true plug-and-play solution it removes the need for extensive concrete structures and cuts installation time. The modular design is configured to the flow, the screening requirement and the site, for long-term reliability and low maintenance.



Process train — raw sewage enters, treated flow leaves, washed and dewatered solids are handled in line.

Five stages, one unit

1

Fine screening

Debris and floating solids are removed at the inlet on a fine screen.

2

Washing & compaction

Screenings are washed to return organics, then compacted and dewatered.

3

Grit separation

Aerated grit removal drops out up to 95% of abrasive particles.

4

Grease & FOG

An optional stage skims fats, oils and grease from the flow.

5

Solids handling

Washed screenings and grit are discharged to a skip or bagging system.



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FEATURES & BENEFITS



1 Integrated fine screening

High-performance fine screens remove debris and floating solids at the front of the plant, protecting the pumps and process equipment downstream and lifting overall plant performance.

2 Advanced grit removal

Aerated grit separation removes up to 95 percent of abrasive particles, so sand and grit are taken out before they wear on pumps, piping and process equipment.

3 Automated screenings handling

Screenings are washed and compacted in line, which cuts their volume and weight, holds odor down and lowers haulage and disposal cost.

4 Grease and FOG removal

An optional grease system separates fats, oils and grease from the flow, which protects treatment performance and reduces maintenance further down the plant.

5 Fully automated controls

A UL-compliant panel with PLC, HMI touchscreen, level sensors and SCADA compatibility runs the plant and allows remote monitoring, so day-to-day operation needs little intervention.



APPLICATIONS

One unit covers the whole front end of a plant, which suits sites where a train of separate machines and their civil works will not fit or cannot be justified.

TYPICAL SITES	WHY PACKAGED
Small and mid-size municipal headworks	Less civil work and shorter installation
New plants avoiding a concrete headworks	One supplier, one control system
Retrofits replacing an aging screen train	Factory tested before delivery
Septage and industrial receiving	Fewer transfer points to fail or spill

DESIGN GUIDELINES

SYSTEM	BUILD & CONTROLS
Complete packaged headworks	304L or 316L stainless steel construction
Fine screening, grit removal, grease separation	Plug-and-play installation, low maintenance
Integrated screenings washing and compaction	PLC and touchscreen HMI, SCADA-ready
Factory assembled and tested	Optional odor control systems

Each plant is configured to the flow, the screening requirement and the site constraints. Send your flow, influent characteristics and channel or slab layout and we will configure the unit and confirm the scope.

ALSO FROM AQUALITEC

Screening equipment

Screenotec, Raketec, Drumtec,
Rotatec, Spiraltec, Compactec,
Washtec

Grit removal

Grittec, Vortec, Sandtec

Sludge equipment

Omega belt filter presses, decanter
centrifuges, screw presses



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