



U.C.D. Package Plant

Infilco Degremont Package Plant



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- Treated water quality in compliance with international standards (WHO)
- Civil works confined to construction of a slab
- Low power requirement
- Wide flow range available (5 m³/h to 720 m³/h)
- Quick to manufacture, assemble and install
- Easy to operate

Producing drinking water for 1000 to 150 000 inhabitants

Compact and standardized, the U.C.D. is designed to meet the treated water requirements of urban centres, communities and industries. Its key features are modular design, performance, safety and ease of operation.

Production rates

The U.C.D. is a standard unit available in fourteen models that range in capacity from 5 to 720 m³/h. Plant capacity may be increased by adding more modules.

Dimensions

Units are sized to comply with current international standards applicable to overland or maritime container transport (20 to 40 feet).

Quality assurance

The U.C.D. is manufactured and assembled entirely in the shop, where a complete battery of hydrau-

lic and electrical tests are conducted following assembly. This gives customers the benefit of Infilco Degremont know-how and quality assurance, which are based on the use of the most severe procedures along top-grade equipment and materials, from design through start-up.

This is your guarantee of ongoing quality control and on-time delivery.





PROCESS DESIGN

Coagulation-Flocculation

After a coagulant is applied, the raw water flows into a flocculation chamber to increase the size and cohesion of the floc.

Settling

A clarifier equipped with lamellar modules is used to accelerate the separation of the floc. The sludge stored in the lower position of the separator is withdrawn automatically at regular intervals.

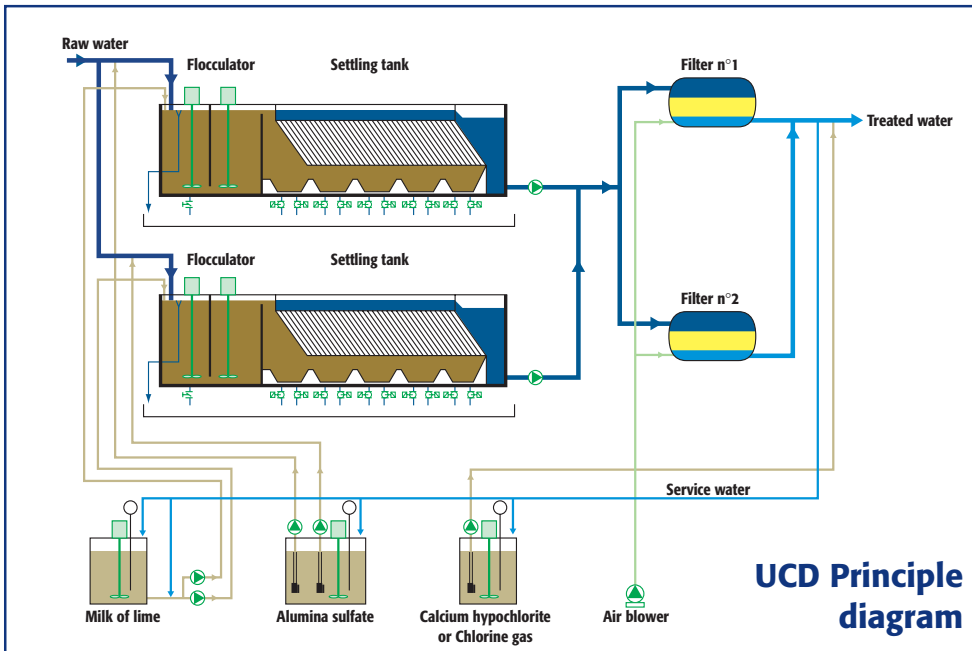
Water is transferred from the flocculation compartment to the settling tank via a stilling

chamber located beneath the lamellar modules.

Settled water is collected in the settling tank overflow and pumped to the filters.

Pressure filtration

Inside the filters, water is distributed above the filter medium and flows down through the sand, which traps the suspended solids. Nozzles fitted on the filter floor collect the water evenly then discharge it directly toward the treated water tank, following application of a disinfection agent.



Water and air scour

Backwashing uses filtered water from the operating filter, coupled with air scour. This design:

- cleans the filter medium thoroughly
- minimizes the duration of the backwash cycle
- eliminated the need for a washwater tank and pump.



INSTALLATION

The civil works required for installation are confined to a concrete slab and drainage pipe connected to the sewer.

The plant can be installed quickly; utilities and hydraulic connections are completed no time.

Our personnel is available to handle the complete installation and start-up procedure.

OPERATION

Designed with flexibility of operation in mind, the U.C.D. can be shut down for several hours with no special precautions. It can also switch on or off automatically in response to fluctuations in demand.

Operating procedures are streamlined; the standardized design permits use of standard equipment, thereby limiting spare parts inventory.