

UCD® LML

Lamellar clarification + filtration
Surface water and groundwater

Operating principle

Coagulation-flocculation & clarification

- Accelerated separation of water and flocs by passing through lamellar modules.
- Sludge collected in the bottom part of the clarifier and discharged by automatic extraction.
- Equal distribution of flows downstream ensuring homogeneity of settling speeds over the entire surface of the structure (patented method).

Filtration

Sand filtration, under pressure, with automatic filter washing.



Functions

- Elimination of suspended solids and colloidal particles
- Water treated to current drinking water standards

Applications

- Medium turbidity water (colloids, color, etc.) (up to 500 mg SS/l)
- Generally for river or dam water
- Groundwater filtration

Standard

- 0.5 bar outlet pressure
- Automatic operation of sludge extraction and filter washing
- Station management by industrial automation and touchscreen interface

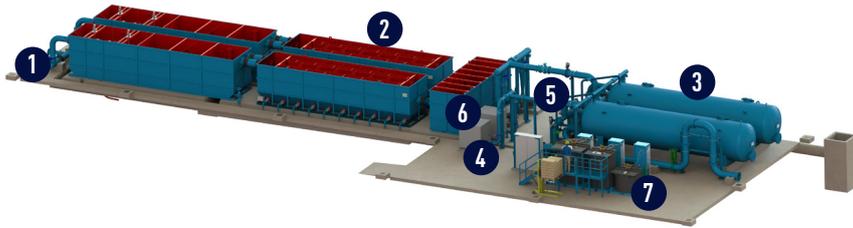
Option

- Pre-oxidation (aeration cascade or chemical oxidation)
- Adaptable plant outlet pressure
- On-line raw and treated water analyzers
- Clarified water pumps control
- Chlorine gas

Technical characteristics

UCD® LML model	Unit	50*	80	100	180	240	360	480	720	960
Main technical specs										
Production / day (23h/24h)	m³/d	1150	1840	2300	4140	5520	8280	11040	16560	22080
Instant flow rate	m³/h	50	80	100	180	240	360	480	720	960
Power consumption (pres. = 0,5 bar)	kW elec	8	12	16	25	32	28	48	66	85
Pressure of treated water	bar	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Number of skids	-	3	3	3	3	4	7	8	11	14
Overall dimension	m x m	9.7x5.8	13.4x5.7	13.5x6.5	13.5x6.5	27x8.35	26.2x10.5	45.3x8	45.3x12.8	45.3x16.0

*6 capacities available, from 5 to 50 m³/h in UCD LML and UCD FAST, for flows below 50m³/h



Caption

1. Flocculation
2. Clarification
3. Sand filters
4. Air blowers
5. Clarified water pumps
6. Clarified water canvas cover
7. Reagents

The Solar Impulse Efficient Solution Label is designed to shed light on existing Solutions that are both clean and profitable and have a positive impact on quality of life.

Benefits

- **Fast turnaround:** Pre-assembly and pre-wiring in workshops, transport, and delivery in containers
- **Modularity:** Add-on units, interchangeable and movable
- **Reliable and sturdy:** Patented technologies, 250 references for over 27 years
- **Integration in dense areas:** Small footprint
- **Risk control:** Complete testing of the unit before delivery, limited civil engineering
- **Reduced CAPEX and OPEX:** Reduced civil engineering and operating costs

UCDs® contribute to the following Sustainable Development Goals:



Contact

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After sales

A team is available to assure the following of your installations, provide studies, technical assistance & supply of spares.
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