

# UCD® PULS

Pulsed Sludge Bed Clarification  
Pulsatube® and Pulsazur® technologies  
Surface water

## Functioning

- The UCD PULS achieves optimized clarification by passing coagulated and flocculated raw water in an upward direction through a sludge bed and lamellar modules.
- The sludge bed is kept in expansion by a regular pulsed feed.
- Excess sludge is discharged by overflow into a thickening and extraction hopper.

## Applications

- High turbidity / loaded water (up to 1000 mg/L)
- Water with high organic matter or pesticide content

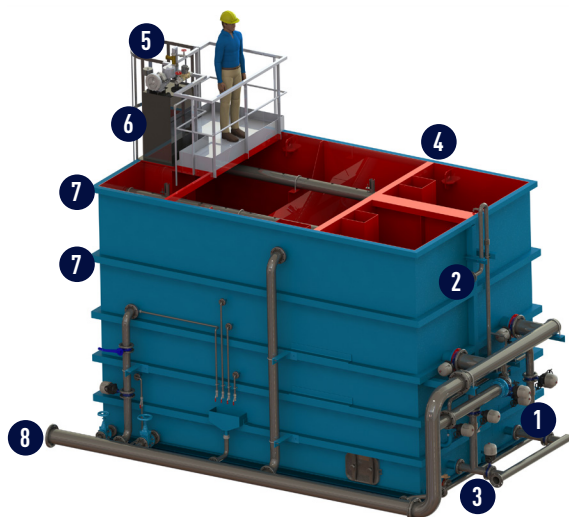


## Performance

- Clarified water turbidity of around 3 NTU
- Up to 60% TOC removal in the Pulsatube® version, up to 80% in the Pulsazur® version (PAC injection)
- Low energy consumption (0.5 kW for the largest model)
- Possibility of adding two-layer gravity filters
- Turbidity of the filtered water complies with current drinking water standards

## Technical characteristics

UCD® PULS metal model	Unit	P-09	P-12	P-15	P-18	P-24	P-30
<b>Main technical specs</b>							
Production / day	m <sup>3</sup> /d	820	1060	1410	1650	2120	2700
Instant flow rate	m <sup>3</sup> /h	35	45	60	70	90	115
Power consumption	kW	0.35	0.35	0.35	0.50	0.50	0.50
Total tank length	m	3.7	4	4.4	5.6	7.6	11.4
Total tank width	m	3.3	3.3	3.3	3.3	3.3	3.3
Total tank height	m	3.7	3.7	3.7	3.7	3.7	3.7
Overall height	m	5.4	5.4	5.4	5.4	5.4	5.4



### Caption

1. Treated water
2. Wash air inlets
3. Wash water inlets
4. Clarified water transfer to filters
5. Vacuum pump
6. Vacuum bell
7. Lamella modules
8. Dirty water discharge

## Benefits

- **Reliable** regardless of variations in raw water quality
- **Flexible** operation: possibility to adjust pulse frequency, duration, and sludge extraction flow rate
- **Low** operating costs (reagents and electricity)
- **Easy** to use

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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