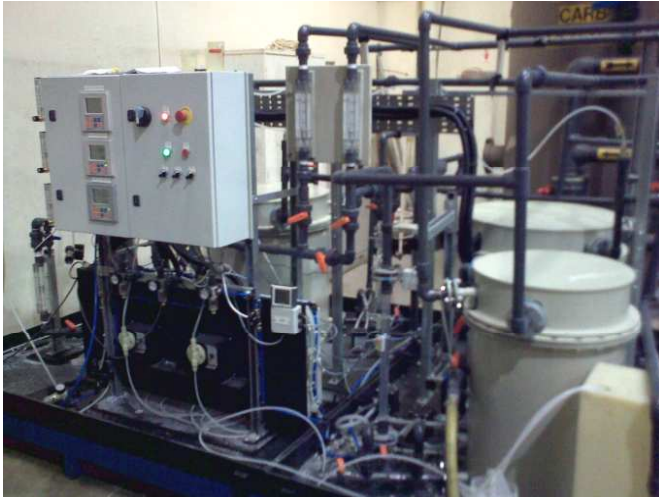


CatalySystems

καταλυτική

"DeCon"TM AOP Portable Unit.

Treatment of waste water from large
metal-forming manufacturing plant



CatalySys "DeCon" Field-trial unit in operation

CatalySys offers new decontamination systems to meet the needs of industrial companies to comply with ever tighter environmental restrictions, and to reduce increasing operational costs.

The company is applying its advanced water decontamination systems for:

- Industrial wastewater reuse / recycling, providing cost efficiencies on the operation of industrial plant
- Future-proofing against environmental discharge violations

Case History

At the request of an international metal-forming company with multiple manufacturing facilities, CatalySys conducted in-line plant specific field-scale trials with waste water streams containing a range of contaminants including:

- surfactants
- coolants
- lubricants
- tramp-oils.

Using its "DeCon" TM unit, CatalySys successfully demonstrated in continuous operation that its systems are well able to destroy those soluble contaminants which had proven impossible to remove by existing technologies.

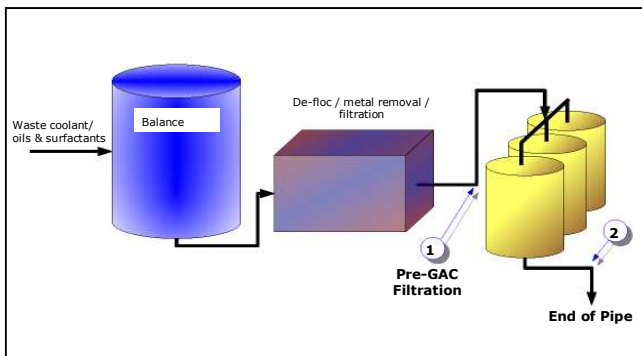
Over an eight-week period, the "DeCon" TM portable unit consistently showed:

- Reduction in COD levels of between 50 to 80%
- Reduction of COD levels to below consent to discharge limits
- Good recovery from "slugs" of heavily contaminated waste water
- Ease of operation using automated controls
- Low energy consumption

Our Portable field units, designed to handle flowrates up to 1 cu.m per hour, are available on a leasing basis over 2-3 months to provide an introduction to of our systems capability to meet your decontamination requirements.

The results/data from your field trial, allow us to optimize with you, the design and operational costs of a permanent full-scale, modular system solution.

Client Trial



Water-treatment Plant—General Schematic

- The CatalySys unit was tested, and met consent to discharge limits both at end of pipe (2) and before AGC filtration (1), making it possible to reduce GAC usage or remove the carbon treatment stage.
- The input COD at end of pipe (2) varied on an hourly basis by as much as 350ppm. The "DeCon" Field unit successfully kept the outlet COD below 100ppm.

CatalySystems Ltd

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Addressing the Environmental Challenges of the 21st Century



"Contact us to discuss a flexible end of pipe solution, or to replace treatment stages like activated carbon with a broader spectrum of performance and reduced O&M costs."

Call today.

Features	Benefits
Total destruction of a wide range of soluble contaminants found in the metal-forming industries	<ul style="list-style-type: none"> Enhance water re-use capabilities Cost-savings – reduced discharge fees (Mogden Formula) Extend lifetime of carbon filters
Compact, modular design	<ul style="list-style-type: none"> Ease of maintenance Flexible configuration for larger flow rates or more persistent pollutants
Few moving parts	<ul style="list-style-type: none"> Increased service intervals Rugged, simple to maintain
Automated Operation	<ul style="list-style-type: none"> Simple to operate Automatic monitoring Datalogging Remote alarm if required
Low-power UV fluorescent Lamp	<ul style="list-style-type: none"> Safer – no need for hazardous, high-power UV-C lamps. Better water column penetration Savings on running costs.
Catalyst	<ul style="list-style-type: none"> Copes with accidental high concentrations of pollutant No hazardous waste to landfill – saving costs.
No added harmful chemicals / gases	<ul style="list-style-type: none"> More environmentally sustainable. No hazard to operators – no HSE issues. Operational savings

Specifications

Flow-rate	Up to 1cu.m per hour
Power	0.65kW max
Voltage	220-240Vac
Dimensions (LxWxH)	4m x 2m x 1.6m (split into 2 pieces 2mx2m for transportation)
Total Weight (dry)	1200kg

Members of:

