



Sorpt.X LD

Liquid distillation systems for recovery, separation and purification

Sorpt.X LD liquid distillation systems from Dürr Megtec are used to process aqueous streams containing soluble solvents or multicomponent hydrocarbon solvent mixtures that need to be separated from water and/or separated and purified into their individual components prior to reuse.

These systems have successfully used the techniques of elevated pressure, vacuum, and ambient operation to perform multiple separations across many markets.

Dürr Megtec can also provide process evaluations and new equipment/services for retrofitting or updating existing distillation systems, regardless of the original supplier.

HIGHLIGHTS



Recover and purify solvents for reuse

Remove solvents from aqueous streams to meet or exceed regulatory requirements for discharge or reuse

Customized process and site-specific designs for each application

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CUSTOM DESIGN

Dürr Megtec designs and builds completely pre-assembled, skid-mounted Sorpt.X LD systems for installations of any size. It also designs, builds and installs larger systems on a total turnkey basis. System commissioning and operator training services are also provided. Dürr Megtec also has experience designing, supplying and installing solvent storage tank farms and utility generation equipment, such as boilers, cooling/chilled water systems, etc.

DESIGN FEATURES AND PERFORMANCE ADVANTAGES

- Structured packing, random/loose packing and tray column internal options provide tailored results for each application
- Materials of construction selected for minimal maintenance and extended equipment life
- Fully automatic, unattended system operation
- Self-diagnostic quality control instrumentation and software
- Control systems include programmable logic controllers (PLCs), operator interface software packages and other key components, which are selected on the basis of performance, cost, operator familiarity and compatibility with systems currently at the customer's site
- Remote system monitoring to assist in system troubleshooting

TYPICAL PROCESS AND PRODUCT APPLICATIONS

- Chemical/petrochemical
- Biofuels
- Recovery, separation and purification of aqueous and solvent streams from activated carbon solvent recovery systems
- Pharmaceutical, including ethanol recovery and purification
- Dehydration and purification of condensed coating solvent for reuse in lithium-ion battery production
- Steam stripping of wastewater
- Ground water remediation
- Purification of extracted natural (animal and plant derived) oils under vacuum
- Waste solvent cleanup of munitions manufacture



Liquid distillation system



Dürr Systems, Inc.
Clean Technology Systems
830 Prosper Street
De Pere, WI 54115
USA

Phone: +1 920 336-5715
E-mail: durrmegtecinquries@durrusa.com
www.durr-megtec.com