New Brochure 5/14/01 11:42 AM Page 1 Greg Trinity:Jobs:Beckart PDf Files:37236 Beckart 5 Systems Broch:

Ease of operation. For discharge or reuse, and performance, quality of water. Optimum system cost and resources. Manufacturing, and service design, engineering, Beckart provides the way around. Rather than the other a system that fits your needs, line, ensuring that we can offer develop a complete system.

Our approach has been to develop a complete product line, ensuring that we can offer a system that fits your needs, rather than the other way around. Beckart provides the in-house design, engineering, manufacturing, and service capability that guarantee optimum system cost, performance, quality of water for discharge or reuse, and ease of operation.

Markets Served
- Corrugated Containers
- Refrigeration/Freezing
- Packaging
- Metal Finishing/Plating
- Die Casting
- Machining
- Paints/Adhesives
- Textiles
- Industrial Launderers
- Metal Equipment Wash
- Food Processing
- Rendering/Grease Traps
- and others

Problems Solved
- Heavy Metal Reduction
- Oil & Grease Reduction
- Pulp
- Paper
- BOE/CO2 Reduction
- VSS Reduction
- pH Neutralize
- Chemical/Deoxygenation
- Sludge Reduction
- and others

Services Offered
- Treatability Studies
- Permitting Assistance
- Project Management
- System Installation
- Startup & Training
- Field Service
- Biodegradable Chemical Support

The Beckart Advantage
Single Supplier Responsibility
- Equipment: engineering, training, chemicals, and aftermarket service - one source for your total satisfaction with startup and long-term performance.
- Optimized formulations and engineered designs provide "lock-in" approach for greater production and disposal efficiencies.

Total System Flexibility
- Systems easily adapt to existing plant operators and feature exploitable components to respond to process changes, process modifications, and discharge variances.
- Ul. Listed control panels, programmable logic controllers, and a wide range of sensors, monitors, and control versatility and exceptionally easy operator interface.

Total System Quality
- In-House engineering, manufacturing, service/ chemical support, and other capabilities combine for top quality at a competitive cost.
- Operational cost savings - affordable cost-to- treat, low maintenance, limited downtime, ready supply availability, and expanded disposal options.

Options for PLC-equipped Systems
- Beckart offers a PLC wastewater treatment system to the exact requirements of the customer, featuring the degree of automation desired. Systems equipped with programmable logic controllers (PLC’s) provide an exceptionally user-friendly method of controlling system functions; our custom software is factory installed and configured to meet the specific needs of the wastewater and engineering decisions with minimal operator time requirements.

- Data Table Access Module
- Running Light Schematic
- Total System Quality
- PanelView Graphic Display
- Data Table Access Module
- Running Light Schematic
- Total System Quality

Related Equipment
- Opti-Pack Filter Presses
- Rotary Screws
- Sludge Traps & Carts

Better Treatment Through Optimized Chemistry
- Beckart maintains a comprehensive in-house research and lab facilities, as well as a worldwide network of chemical warehousing. The basic chemistry for the application is always available in the most timely and cost-effective manner. Our chemical formulations ensure an optimized treatment scheme - flows form photograph, filter press cycle times are increased, cais are drier and more compact.

- Coagulants (Organic and Inorganic)
- Polymers (Anionic and Cationic)
- pH Adjuncts
- Sludge Conditioners
- Metal Scavengers
- Zonatable Drums, tube, and bulk quantities.

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Worldwide Resourceful Wastewater Solutions

Services Offered
- Treatability Studies
- Permitting Assistance
- Project Management
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- Field Service
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• Data Table Access Module (DTAM) — allows operator to monitor and modify timers, counters, and integer data files in the PLC program; supports multiple foreign languages.

• Floating Light Schematic — provides overall view of the system status in an LED-illuminated diagram.

• PanelView Graphic Display — operator interface with graphics capability that allows system data modification and manual motor/valve Off/On selection.

• Rapid Response Support System — a telecommunications module which allows Beckart technicians to be program, monitor, and control system operation via a telephone line.

Better Treatment Through Optimized Chemistry

Beckart maintains comprehen-
sive chemical research and lab facilities, as well as a worldwide network of chemical

Worldwide Resourceful Wastewater Solutions

The Beckart Advantage

Single Supplier Responsibility

• EquipmentsrcEnhancing, training, chemicals, and aftermarket service - one source for your total satisfaction with startup and long-term performance.

• Optimized formulations and engineered designs provide “ system” approach for greater production and disposal efficiencies.

Total System Flexibility

• Systems easily adapt to existing plant operations and feature replaceable components to respond to process changes and discharge requirements.

• UL listed control panels, programmable logic controllers, and a wide range of in-house equipment for versatility and exceptionally easy operator interface.

Total System Quality

• Inhouse engineering, manufacturing, service/ chemical support, and other capabilities combine for top quality at a competitive cost.

• Operational cost savings — affordable cost-to-treat, low maintenance, limited downtime, ready supply availability, and expanded disposal options.

Options for PLC-equipped Systems

Beckart provides an exploding wastewater treatment system to the exact requirements of the customer, including the degree of automation desired. Systems equipped with programmable logic controllers (PLCs) provide an exceptionally user-friendly method of controlling system functions; our custom software is factory installed and configured, and engineering decisions with minimal operator time requirements.

• Data Table Access Module (DTAM) — allows operator to monitor and modify timers, counters, and integer data files in the PLC program; supports multiple foreign languages.

• Floating Light Schematic — provides overall view of the system status in an LED-illuminated diagram.

• PanelView Graphic Display — operator interface with graphics capability that allows system data modification and manual motor/valve Off/On selection.

• Rapid Response Support System — a telecommunications module which allows Beckart technicians to be program, monitor, and control system operation via a telephone line.
For many applications, air flotation is the system of choice. Micro-bubbles are produced by inducing air into a vortex to form flocs. Beckart’s Batch Process systems are particularly well-suited for wastewaters containing high solids. Typical applications include ink, paint, metal finishing, starch, plating solutions, and many others.

Continuous Flotation Systems

Beckart offers distributors for larger volumes of wastewater – typical flow rates of more than 5,000 gallons per day (20 m³ per day). Beckart’s continuous flotation systems provide a highly effective solution for treating wastewaters containing free-floating or emulsified oils, dissolved heavy metals, soap surfactants, and many other waste streams. For many applications, air flotation is the system of choice. Micro-bubbles are produced by inducing air into a vortex to form flocs. Beckart’s Batch Process systems are particularly well-suited for wastewaters containing high solids. Typical applications include ink, paint, metal finishing, starch, plating solutions, and many others.

Batch Filter Press Systems

For applications requiring lower solids concentrations or lower solids eflocculation, Beckart’s Batch Filter Press Systems offer a compact, self-contained approach with applications in the food, textile, paper, and many other industries. Because we use environmentally-friendly pretreatment chemistry that readily corresponds to the needs of biological treatment, our Batch Filter Press Systems provide a comprehensive approach with applications in the food, textile, paper, and many other industries.

Continuous Sedimentation Systems

Water Washer Systems

This Batch/Flotation System is perfect for lower solids waste streams. Water Washers offer a compact, self-contained process for treating city waste and metals at the same time. Water Washers are widely used in metal finishing, cutting oils, lubricant waste, and other waste streams.

Continuous Sedimentation Systems

Many waste streams, such as those typically found in metal finishing, textile manufacturing, phosphating, and plating environments, can be effectively treated with our sedimentation technology. Beckart has years of experience with related processes – including concentrate bleed-in, neutralization, and chrome removal. Our systems provide total water and resource management solutions.

Biological Treatment Systems

Automation features and monitoring technology mean of operation, our customers are assured of a seamless transition between treatment schemes. Because we use environmentally-friendly pretreatment chemistry that readily corresponds to the needs of biological treatment, our systems provide a comprehensive approach with applications in the food, textile, paper, and many other industries.
Continuous Flotation Systems

Engineered to reliably handle larger volumes of wastewater — typical flow rates of more than 5,000 gallons per day (20 m³ per day) — Beckart’s continuous flotation systems provide a highly effective solution for treating wastewater containing free-floating or emulsified oils, dissolved heavy metals, soaps, surfactants, and many other waste streams.

For many applications, all flotation is the same. Most bubbles are picked up by introducing air into a vortex system of choice. Micro-bubbles are produced by inducing air into a vortex. The induction of air allows the micro-bubbles to permanently attach to the floc, resulting in consistent flotation in the clarifier. The clarifier has a built-in sludge-holding section.

For lower solids, Beckart’s Batch Process systems are particularly well-suited for wastewaters containing high solids. Typical applications include ink, paint, metal finishing, starch, plating solutions, and many others.

Batch Filter Press Systems

batch. (0.2 m³ - 4.0 m³ per batch)

Capacity:
5 - 500 gallons per batch (1.9 m³ - 1,893 liters per batch)

Continuous Sedimentation Systems

Many waste streams, such as those typically found in metal finishing, new manufacturing, phosphating, and plating environments, can be effectively treated with our sedimentation technology. Beckart has years of experience with related processes — including concentrate bleed-in, neutralization, and chrome/ cyanide destruct — to provide total water and resource management solutions.

Biological Treatment Systems

Available as stand-alone or secondary modules for the reduction of BOD, COD, and a wide range of dissolved organic matter, our biological treatment systems provide a comprehensive approach with applications in the food, broccoli, paper, and many other industries.

Automatic features and conditioning treatment mean of operation, our customers are assured of a seamless interface between treatment systems.

Because we use environmentally-friendly pretreatment chemistry that results in a contaminant to the level of biological treatment, and provides an necessary

Water Washer Systems

This Batch/Flotation System is perfect for lower solids waste streams. Water Washers offer a compact, self-contained process for treating oily waste and metals at the same time. Applications include metal working, metal finishing, cutting oils, laboratory waste, and other waste streams.

Batch Filter Press Systems

Typical Process Flow

Capacity: 40,000 gallons per day (151 m³ per day)

Continuous Flotation Systems

Capacity: 5 - 500 gallons per day (1.9 m³ - 1,893 liters per day)

Continuous Sedimentation Systems

Capacity: 5 - 500 gallons per day (1.9 m³ - 1,893 liters per day)

Biological Treatment Systems

Capacity: 500,000 gallons per day (1.9 m³ - 3,785 liters per day)

Water Washer Systems

Capacity: 1,000 to 5,000 gallons per day (3.8 to 18,930 liters per day)
Continuous Flotation Systems

Engineered to reliably handle larger volumes of wastewater — typical flow rates of more than 5,000 gallons per day (20 m³ per day) — Beckart’s continuous flotation systems provide a highly effective solution for treating wastewaters containing free-floating or emulsified oils, dissolved heavy metals, soaps, surfactants, and many other waste streams.

For many applications, oil flotation is the method of choice. Micro-bubbles are induced by the point of entry into the floc, and the air is dissolved into the floc as the floc is formed. The controlled circulation of air above the oil/micro-bubble interface ensures that the oil is reliably and consistently floated to the surface.

Batch Filter Press Systems

These Batch/Flotation Systems are perfect for lower solids waste streams. Water Starches offer a compact, self-contained process for treating city waste and metals at the same time. They are suitable for treating complex wastewaters, including heavy metals, emulsified oils, laboratory waste, and many others.

Continuous Sedimentation Systems

Many waste streams, such as those typically found in metal finishing, new manufacturing, phosphating, and plating environments, can be effectively treated with our sedimentation technology. Beckart has years of experience with related processes — including concentration, blending, neutralization, and chrome removal — and is able to provide total water and resource management solutions.

Biological Treatment Systems

Available as stand-alone or secondary modules for the reduction of BOD, COD, and a wide range of dissolved organic matter, our biological treatment systems provide a comprehensive approach with applications in the food, beverage, paper, and many other industries.

Because we use environmentally-friendly, zero-discharge technology that meets federal and state criteria, our systems are simple, reliable, and efficient.
With over 1,200 treatment systems installed worldwide since 1973, Beckart Environmental has experience with practically every challenging wastewater problem imaginable. We’ve learned that most can be easily and cost-effectively addressed, though no single technology offers the best single solution for everyone.

Our approach has been to develop a complete product line, ensuring that we can offer a system that fits your needs, rather than the other way around.

Beckart provides the in-house design, engineering, manufacturing, and service capabilities combine for top quality at a competitive cost.

Total System Quality
- Inhouse engineering, manufacturing, service/ chemical support, and other capabilities combine for top quality at a competitive cost.
- Operational cost savings — affordable cost-to-treat, low maintenance, limited downtime, ready supply availability, and expanded disposal options.

Total System Flexibility
- Systems easily adapt to existing plant operations and feature expandable components to respond to changes in processes and discharge standards.
- UK listed control panels, programmable logic controllers, and a wide range of software solutions provide versatility and exceptionally easy operation interface.

Better Treatment Through Optimized Chemistry
Beckart maintains comprehensive in-house research and lab facilities, as well as a worldwide network of chemical warehouses. The basic chemistry for the application is always available in the most timely and cost-effective manner. Our chemical formulations ensure an optimized treatment scheme — from design through execution, delivered on time and within budget.

Options for PLC-equipped Systems
- Beckart tailors each wastewater treatment system to the exact requirements of the customer, including the degree of automation desired. Systems equipped with programmable logic controllers (PLCs) provide an exceptionally user-friendly method of controlling system functions; our custom software is factory installed and configured to optimize system performance and engineering decisions with minimal operator time requirements.
- Data Table Access Module (DTAM) — allows operators to monitor and modify timers, counters, and integer data files in the PLC program; supports multiple foreign languages.
- Running Light Schematic — provides overall view of the system status in an LED-illuminated diagram.
- PanelView Graphic Display — operator interface with graphics capability that allows system data modification and manual motor/valve On/Off selection.
- Rapid Response Support System — a telecommunications module which allows Beckart technicians to diagnose and rectify problems effectively and immediately; our network support system provides complete technical communications support.
- Technical Support
- Treatment Studies
- Permitting Assistance
- Project Management
- Turnkey Installations
- Start-Up & Training
- Field Service
- Overall System Flexibility
- Systems easily adapt to existing plant operations and feature expandable components to respond to changes in processes and discharge standards.
- US listed control panels, programmable logic controllers, and a wide range of software solutions provide versatility and exceptionally easy operation interface.

Markets Served
- Corrugated Containers
- Pharmaceutical Flagging/Painting
- Packaging
- Metal Finishing/Plating
- Die Casting
- Machining
- Paints/Adhesives
- Textiles/Tillennium
- Industrial Laundering
- Metal/Equipment Wash
- Water/Waste Beer Processing
- Rendering/Grease Traps
- and others

Problems Solved
- Heavy Metal Reduction
- Oil & Grease Reduction
- Foulness
- Phosphate
- BOD/COD Reduction
- TSS Reduction
- VOC Reduction
- pH Neutralization
- Cyanide Destruction
- Chrome Conversion
- Exchange Reduction
- and others

Options for Related Equipment
- Hi-Pac® Filter Presses
- Rotary Screws
- Sludge Traps & Carts
- and others

Resources

The Beckart Advantage

Single Supplier Responsibility
- Equipment, servicing, training, chemicals, and aftermarket service — one source for your total satisfaction with startup and long-term performance.
- Optimized formulations and engineered designs provide “system” approach for greater production and disposal efficiencies.

Markets Served
- Corrugated Containers
- Pharmaceutical Flagging/Painting
- Packaging
- Metal Finishing/Plating
- Die Casting
- Machining
- Paints/Adhesives
- Textiles/Tillennium
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- Metal/Equipment Wash
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- BOD/COD Reduction
- TSS Reduction
- VOC Reduction
- pH Neutralization
- Cyanide Destruction
- Chrome Conversion
- Exchange Reduction
- and others

Services Offered
- Treatability Studies
- Permitting Assistance
- Project Management
- Turnkey Installations
- Start-Up & Training
- Field Service
- Inhouse Chemical Support

Better Treatment Through Optimized Chemistry
Beckart maintains comprehensive in-house research and lab facilities, as well as a worldwide network of chemical warehouses. The basic chemistry for the application is always available in the most timely and cost-effective manner. Our chemical formulations ensure an optimized treatment scheme — from design through execution, delivered on time and within budget.