

Featuring the Industry's Most Advanced and Fully Optimized Process Options, Including:

- Activated Sludge Technology
- Selector Technology
- Membrane Bioreactor
- Aerobic Digestion to achieve Class "B" Biosolids
- Nitrification/Denitrification
- Tertiary and Ultrafiltration
- Phosphorus Removal
- Disinfection Systems

Ashbrook Simon-Hartley Also Provides a Comprehensive Line of Fully Optimized Equipment and Systems, Including:

- Aeration Basins and Equipment, Including Diffused Aeration Systems
- Membrane Bioreactors
- Clarifiers
- Liquid/Solids Separation Technologies
 - Tertiary Filtration
 - ▲ Denitrification
 - ▲ Rapid Rate/Gravity Sand
 - ▲ Continuous Backwash
 - Ultrafiltration Membrane
 - High Performance Belt Filter Press Technologies
 - High Performance Belt Thickeners
 - Advanced Centrifuge Technologies
- Disinfection
 - Solution Feeders
 - Ultra-Violet
- Pasteurization and Digestion to Achieve Class "A" Biosolids
- Flow Equalization
- Primary Treatment
- Lift Stations
- Bar Screens and Grit Collection
- Electrical Controls & Automated Systems (PLC and SCADA)
- Ground Water Contamination Remediation
- Industrial Process Wastewater Treatment
- Advanced Flow Control Technologies
 - Sluice Gates and Weir Gates
 - Flap Valves (Rigid and Flexible)
 - Stop Logs and Gates
- Mobile Dewatering

Plus, Comprehensive Installation Services As Well As Optimized Rebuilds, Retrofits and Spare Parts.



Try the eAnswers Cyber-Space Option

For more information:
Visit our website at
www.as-h.com

In North America—
Contact Ashbrook Simon-Hartley
at 800-362-9041
Fax: 281-449-1324
Address: 11600 East Hardy
Houston, TX 77093-1098



In Europe, Asia, and the Africas—
Contact Ashbrook Simon-Hartley, Ltd.
at +44 (0) 1782 578650
Fax: +44 (0) 1782 260534
Address: 10/11 Brindley Court
Lyndale Business Park
Newcastle-under-Lyme
Staffordshire
ST5 9QH UK

Contact Ashbrook Simon-Hartley, Ltd.
at +971 (4) 407 0782
Fax: +971 (4) 339 1414
DUBAI Branch
Address: P. O. Box 282486
Dubai
UAE

In South America—
Contact Ashbrook Chile S.A.
at +56 (2) 224 7858
Fax: +56 (2) 224 9525
Address: Avenida Presidente Kennedy 5757
Torre Oriente, Oficina 501
Comuna de Las Condes
Santiago, Chile

ISO-DISC™
DISK FILTER



FILTRATION SYSTEMS

**THE PERFECT TECHNOLOGY FOR
HIGH QUALITY, LOW MAINTENANCE
DISK FILTRATION**



ISO-DISC™

The products pictured, described, or listed in this publication are illustrative only and are subject to change as appropriate.

Ashbrook Simon-Hartley® is a registered trademark of Ashbrook Simon-Hartley Operations LP. ISO-DISC™ is a trademark of Ashbrook Simon-Hartley Operations LP.

© 2009 Ashbrook Simon-Hartley Operations LP
Printed in U.S.A.

Innovative Fixed-Disk Design Reduces Operating Costs and Delivers Quality Filtrate in Minimum Space

- **Any Disc Can Be Isolated**
- **No Rotating Filtrate Seal to Maintain**
- **Reuse Quality Filtrate**
- **Small Footprint to Flow Ratio**
- **Easily Expanded**
- **Low Backwash Rates**
- **High Solids and Hydraulic Loading Capacities**
- **Uninterrupted Flow During Backwash Cycle**



The ISO-DISC™ Disk Filter is engineered as a continuous operating system that utilizes a fixed filter disk and a rotating backwash system controlled by a PLC or relay control panel. All internal or submerged components are corrosion resistant stainless steel or non-metallic materials.

Use of the fixed-disk design reduces overall horsepower and permits removal of each individual disk while the filter remains in operation. The filter disks remain fixed while the rotating center shaft supports the backwash arms, and serves as a header for removal of solids from the filter. At the beginning of the timed backwash cycle, which is initiated by headloss across the filter, electrically actuated valves segregate the backwash header and clean the filter disks on that portion of the header. This insures complete cleaning of the filter cloth while minimizing the rate at which backwash water is returned to the treatment facility.



The rotating backwash system is PLC controlled.

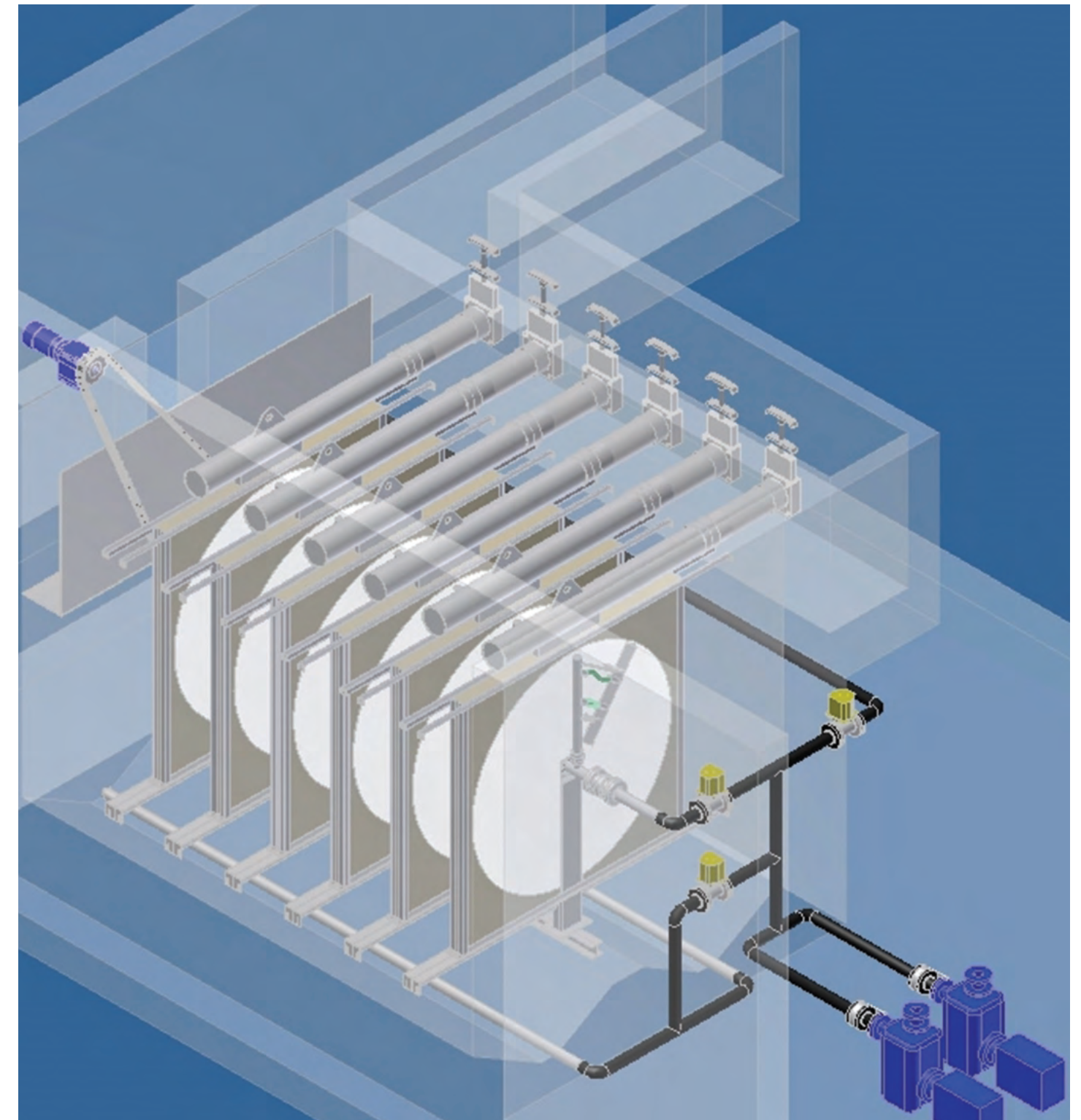
Performance of the ISO-DISC Disk Filter is second to none. The cloth is capable of solids capture down to 10 micron without having to build up a filter mat or require any run-in time. The two-layer cloth allows for complete cleaning, utilizing filtered water from inside the disk. The filter cloth is supplied as a sealed bag that can be replaced and re-installed in a matter of minutes, all while the filter continues to function without interruption.



The filter disks remain fixed while the rotating center shaft supports the backwash arms.

Municipal & Industrial Applications

- **Tertiary Filtration**
- **Water Reuse**
- **Process Streams**
- **Surface Water Treatment**



Innovative Design Eliminates the Need for Rotating Filtrate Seals.

The ISO-DISC Disk Filter can be installed into a concrete structure (supplied by others), pre-fabricated carbon steel with two-part epoxy coating, or stainless steel tanks. The ISO-DISC Disk Filter has a unique advantage incorporated into its design that allows filtrate sampling from each disk

individually, as well as being able to remove an entire disk from the system without filter shutdown. The ISO-DISC Disk Filter design also eliminates rotating filtrate seals: ensuring filtrate quality; guaranteeing no cross-connection between influent and filtrate; and reduced maintenance.