### Asset Management Filtration Station L-4200

<table>
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**For more information, please contact:** sales@schroederindustries.com

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724.318.1100 phone | 724.318.1200 fax
www.schroederindustries.com
Complete Fluid Quality Care in One Unit

The Payoff: In Real Dollars

Hydraulic and lubrication assets that you manage are worth millions. For example, within a six (6) month timeframe, a refuse customer had to change the hydraulic fluid in their fleet of 100 trucks (L-4513). With a fleet size of this magnitude, the customer was looking to reduce costs by extending the service life of their fluid.

The best way to achieve this goal is to set up a predictive maintenance (PM) program. Through PM programs, managers are able to maintain, measure and track results, thus become knowledgeable of the fluid’s condition and able to treat the fluid as needed to best prevent unnecessary changes. Schroeder Industries offers the best solution for collecting accurate data and supporting best PM practices.

Asset Management Filtration Station® | AMFS

What is the SMART® Asset Management Filtration Station® (AMFS)?

The Asset Management Filtration Station® (AMFS) is a complete fluid conditioning system designed to manage fluid cleanliness, so that the greatest Return On Investment (ROI) on hydraulic and lube assets are achieved. The AMFS monitors your fluid condition, filters out contaminants and tracks all the necessary data needed for trend analysis and record keeping by asset number or name.

How does the AMFS work?

The rugged, on-board PC records the ISO code and water saturation level, and provides a full-color display of the data in real time. The AMFS shuts down when the user selected cleanliness level is reached. Each asset file is created automatically and is separately labeled and summarized to quickly inform the operator on the condition of the fluid. Each run of the fluid is logged by date and time, providing a complete history of the equipment’s fluid cleanliness.

Before the AMFS can run, four key pieces of asset management data must be entered: 1) Who is operating the filter cart, 2) What equipment and which asset is being tested 3) How many hours of operation are logged on the asset that is about to be conditioned and 4) What is the desired ISO Cleanliness Class to filter down to. The motor controllers will not allow the unit to start before the data is entered. The same controller also allows the operator to shut down and log the report automatically when the target cleanliness level is met, leaving the operator available to perform other tasks as needed.

Why is the AMFS beneficial to both the operator and the Maintenance Supervisor?

Asset data MUST be entered for each asset cleaned. This data is then logged for maintenance tracking and fluid condition data trending purposes. The AMFS mandates and facilitates better fluid care maintenance practices, and ensures that Fluid Care Managers receive a detailed fluid care history logged and presented by the asset being maintained.

Visibility and traceability of data provides previously unavailable or unmanaged ROI opportunities in every area of predictive maintenance.

Ease of Use

Only four fields of data must be entered to start the unit. Date and time are automatically set for maintenance.

1. Asset #: Identifies the hydraulic/lubrication system set for maintenance.
2. Operator ID #: Distinguishes the operator running the test.
3. Hours of Operation - On a test at time of test.
4. ISO cleanliness level: Select class based on most sensitive component in hydraulic system.

To start the fluid care process (to physically start the AMFS), the user inputs the above data and any service notes related to the asset being filtered. Then, the user simply pushes the green “START” button, and the AMFS does the rest.

Fast, Unsupervised, Reliable Fluid Care for Better Asset Management

Critical equipment information must be before the AMFS can start. This data input takes less than 30 seconds, and identification of the asset operators controls the motor start function. The AMFS is PC-controlled and data driven. The AMFS stores and reports data in Microsoft® Excel, which makes it very easy to transfer the data to any master Predictive Maintenance Program or PC.

Customers Who Benefit + Return on Investment (ROI)

In-Plant Service - Reliability Specialists, Plant Maintenance Managers and Maintenance Operators (Anyone responsible for system reliability/uptime)

Mobile Dealer Networks - Fleet Maintenance Facility Managers, Fleet Directors, Mobile Equipment Service Contractors and Mobile Equipment Dealers

Both can see immediate ROI in the form of extended oil life, excellent fluid quality, lower fluid sampling costs and predictive maintenance that can eliminate loss of production that may cost hundreds of times more than one AMFS.

Predictive vs. Preventative Maintenance

In simple terms, predictive maintenance is using measurement and monitoring tools with equipment or assets in order to “predict” when maintenance needs to be performed (ideal).

The more commonly used alternative, preventative maintenance, is the periodic shutdown of equipment to perform maintenance, regardless of necessity. Equipment prematurely taken out of service results in lost productivity and an extended return on investment (ROI) for that machinery. Waiting for equipment failures before performing maintenance is even more costly.

Monitoring the fluid conditions and maintaining proper fluid cleanliness is imperative to getting the most value out of your equipment. By implementing a predictive maintenance program, even greater cost improvements can be recognized by performing maintenance “as needed” and before a failure occurs.
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Asset data MUST be entered for each asset cleaned. This data is then logged for maintenance tracking and fluid condition data trending purposes. The AMFS mandates and facilitates better fluid care maintenance practices, and ensures that Fluid Care Managers receive a detailed fluid care history logged and presented by the asset being maintained.

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Ease of Use

Only four fields of data must be entered to start the unit. Date and time are automatically entered at the start of the test:

1. Asset ID #: Identifies the hydraulic/lubrication system set for maintenance
2. Operator ID #: Distinguishes the operator running the test
3. Hours of Operation: On a set at time of test “Optional notes field for event recording”
4. ISO Cleanliness Class: Select class based on most sensitive component in hydraulic system

To start the fluid care process (to physically start the AMFS), the user inputs the above data and any service notes related to the asset being filtered. Then, he/she simply pushes the green "START" button, and the AMFS does the rest.

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**VGA** for sharing data on the shop floor

**USB** for easy data transfer from external keyboard

**Trend Data** presented by asset being filtered (Avg. ISO count/clean up time, graph and tabular data)

**Live Test Screen**

**Touch Screen**
- To input data + view reports
- *Unit starts only after data (asset ID + operator ID + ISO Class) is entered*

**Ergonomic Display**
- High-mount data entry screen for ease of use

**PLC**
- To control motor and sensor monitoring

**Large Wheels**
- On rugged frame for ease of movement and component protection
- *Fits through a standard door frame*

**Particle Counter**
- Provides ISO cleanliness details, allowing the target cleanliness level to trigger auto shutdown

**High Capacity Filter Housing**
- Top-load filters come with auto bleed valves for easy element service with no air-related faults

**Aqua Sensor**
- % saturation with red light for high water levels

**Asset Management Filtration Station**

**Reports**

**Asset Specific Trending & Reporting**

**Fluid Condition Monitoring**

**Targeted Cleanliness Levels with Auto Shutdown**

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