EquipSolutions™

WE OFFER

- Standard Chemical Feed Systems
- Controls / Controllers
- Metering Pumps
- Custom Engineered Systems
- On-Site Oxidant Generation
- Polymer Feed Systems
- Chemical Storage & Accessories
- Booster Skids
- Performance Monitoring Tools
- Transfer Pumps
- Level Monitoring
- Web Based Remote Monitoring
- Instrumentation
- Flow Measurement
- Innovative Accessories

SPECIALIZED SERVICES

- System Installations
- Start Up & Commissioning
- Contract Maintenance
- Emergency Repairs
- Plant Audits / System Surveys
- Pump/ Accessory Repairs
- Equipment Pool Management
- Equipment Rentals
- Controller Maintenance & Repair

MARKETS SERVED

- Industrial
- Municipal
- Commercial
- Recreational

1364 Hamilton Parkway
Itasca, Illinois 60143
Toll Free 888-200-1800
Phone: 630-351-9070
Fax: 630-351-9080
www.equip-solutions.com

Cooling Water Performance Monitoring Station

- **WebMaster Controller**
- **Rohrbach-Cosasco Corrator**
- **DATS Unit**
- **Control Box - With Main Disconnect**
- **Inlet Duplex Basket Strainers**
- **Skid Mounted**
- **PVC piping**
- **Flow regulator**
- **Multi–Station Corrosion Test Rack**
- **Communications: 4-20ma Output**
- **Ethernet Standard**
- **Modbus available**

The performance of cooling water is a wide variety of applications can affect productivity and costs.

This system provides a method of looking into a dynamic operating system in order to view actual performance on a real time basis.

The Water Quality Monitoring System is designed to take a sample stream of cooling water and continuously monitor pH, ORP, Conductivity, Corrosion and Heat Transfer Resistance of a matched sample heat exchanger tube.

This data can be used to adjust treatment programs and operating practices to optimize performance and costs.

It is an ideal way to conduct treatment trials and can be an essential part of the ongoing management of any treatment program.

Ask about our rental and on-line audit programs.

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Cooling Water Performance Monitoring Station

DATS 4 Fouling Monitor System with the following features:

- Electronics – 120 VAC, 50/60hz, single phase, 15 Amps single phase power input
- Laptop/tablet/embedded control electronics
- Windows Vista or XP embedded operating system
- USB 2.0 interface, ethernet, 802.11b/g for laptop
- Metric/MKS units of storage, Metric and Imperial displayed
- 4 internal signal input measurements
- Flow Controller - 1/2 Inch, sch 80 CPVC plumbing hardware
- Type MK 2536 paddlewheel
- EPDM diaphragm valve
- Heat Exchanger - 1000 Watt nominal resistive heater
- 316 Stainless Steel tube metallurgy
- 750 inch [15.875mm] tube outside diameter
- .049 inch [1.24mm] (18BWG) tube wall thickness

pH
System pH is monitored from -2 to 16 with a factory set alarm of 5.0 for the low and 10.0 for the high pH alarm. The pH is integral to the Webmaster controller and can be calibrated via the front touchpad on the Webmaster or via the web browser on the tablet PC in the DATS control enclosure. The pH signal is retransmitted on analog output #4.

Conductivity
Conductivity is monitored from 0 to 10,000 mS with a factory set alarm of 0.0 for the low and 10,000 for the high pH alarm. The pH is integral to the Webmaster controller and can be calibrated via the front touchpad on the webmaster or via the web browser on the tablet PC in the DATS control enclosure.

Corrosion
Two methods of corrosion monitoring are possible. The system can be fitted with up to six corrosion coupons for laboratory analysis. The system also includes two instantaneous corrosion probes for continuous measurement and trending. The probes are supplied with one set of 316L SS tips and one set of Admiralty Brass tips. The corrosion is datalogged in the Webmaster unit and has a high corrosion alarm of 5.0 mpy. The corrosion rates are retransmitted on analog output #1 for stainless steel and analog output #2 for brass.

DATS
The DATS monitor is a heat exchanger simulator used to recreate the process heat load and determine the heat transfer resistance created by fouling and deposition. The DATS is controlled by software on the Tablet PC and a HTR value is calculated on the DATS 4 Screen. A digital signal is converted to analog and datalogged in the Webmaster. The signal is "Percent Clean". The factory set alarm is 60%.

Utilities Required
Sample water: 10 gallons per minute

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