Air & Water Pollution Control Systems
for Municipal & Industrial Markets

Remote Access & Monitoring

ECS KCH HEIL is a full-service provider, offering remote access for customers to see in real time, how their systems are performing. Our experts can assist with troubleshooting and support remotely, sparing you downtime.

Operate & Maintain

Customize system operations with our equipment maintenance solutions, protecting equipment, while ensuring ongoing compliance.
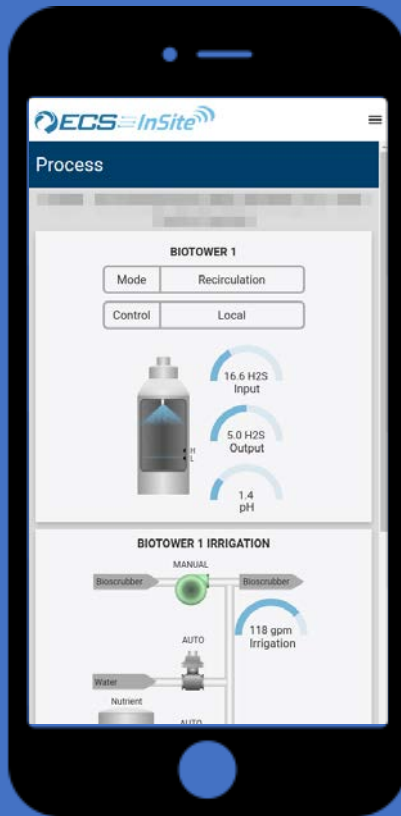
"The daily report I receive for the odor control system really helps me to see what the unit is doing, it allows me to see the PH, water flows, sump levels and the status of the equipment on the system. The report also gives me a snapshot of the most recent data trend, which allows me to see if there were any changes to water flow, PH and water levels that help me identify any problems in the system that I need to attend to immediately.

I especially enjoy that if I don't have a chance to view the system online, I can depend on getting the daily report on my email to let me know how the odor control unit is doing."

Art, Asst. Superintendent
Wastewater Treatment Plant

Clouded Data Tracking & Recovery

InSite™ uses store and forward technology, to maintain data integrity.

Even if a site loses connection to cloud servers, when the connection is restored, so is the historical data.

Alarm Notifications

Insite™ includes a real time alarm notification system, that sends an email when a problem is detected.

Notifications can also be configured, indicating when preventative maintenance is required.

Alarms can be fully configured for each site.

They can also be disabled, setpoints can be adjusted, and notes or instructions can be applied.

ECS ENVIRONMENTAL SOLUTIONS

KCH ENGINEERED SYSTEMS

HEIL ENGINEERED PROCESS EQUIPMENT

Includes

1 Year Support & Maintenance
2 Management Licenses

Monitor Alarms	Monitor all email alarms and advise operators as necessary
Operator Settings Verification	Periodic systems check of all major parameters
Preventative Maintenance Notification	Maintain PM System and provide remote help
Instrument Calibration Verification	Validate instrument calibration and help setup new as needed
Track System Performance	Monitor and analyze data
Help Desk	Technical Resources to answer questions
Biology	Data analysis and settings change for healthy biology
Communication	Status Reports and Operator Spot Training
Link Manager	Remote Access of all systems including PLC with PC
Link Manager Mobile	Remote control of plant with smart phone or tablet
Link Manager Data	Remote cloud data access for trends or compliance

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KCH ENGINEERED SYSTEMS

HEIL ENGINEERED PROCESS EQUIPMENT

InSite™ uses all High Growth protocols to leverage data collection, interaction and storage, with the ability to interface with legacy systems.

	I/O Protocols	OT Protocols	IT Protocols
High growth	IO-Link	OPC UA	MQTT.ORG
Low growth	4-20 mA 0-10 V Discrete	Modbus PROFIBUS DeviceNET	FTP SQL / ODBC HTTP / REST

ECS ENVIRONMENTAL SOLUTIONS

KCH ENGINEERED SYSTEMS

HEIL ENGINEERED PROCESS EQUIPMENT

Secure Technology

We use modern secure protocols to provide encryption, and access control to every component of the distributed system including:

HTTPS
TLS
Firewalls
Reverse Proxy
Open Connect ID & OAuth 2
2 Factor Authentication

Remote connection to the process control system is customizable, yet secure from unauthorized access and remote hacks.

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KCH ENGINEERED SYSTEMS

HEIL ENGINEERED PROCESS EQUIPMENT

Predictive Maintenance

Reduce downtime over 90% by trending data over time.

Drastically reduce the severity of equipment damage or outage.

Operating by the old adage:
"If it ain't broke, don't fix it" **can prove to be very costly.**

Monitor and Trend (Example):
Bearing Vibration on a Fan
- Replace faulty fan bearings: ($500 Cost)
- Before failure requiring complete fan replacement: ($5,000 Cost)

Servicing equipment only during breakdown, requires more components, damaged by overrun, leading to failure.

Inaccessible parts= Lengthy, costly, unplanned, downtime.

InSite™ Monitors

CHEMICAL SCRUBBERS / VENTURI SCRUBBERS

- Sump Liquid Level
- Liquid Flow Rate
- Piping System Pressure
- Recirc Pump Status
- pH Range
- ORP Range
- Chemical Feed Pump Status
- Chemical Feed Tank Level
- Differential Air Pressure
- Gas Inlet/Outlet Level
- Airflow/Velocity

FANS & BLOWERS

- Bearing Temperature
- Bearing Vibration
- VFD / FAN RPM
- Motor Electrical Load
- Inlet Static Pressure
- Outlet Airflow/Velocity
- Noise Level

ECS ENVIRONMENTAL SOLUTIONS   KCH ENGINEERED SYSTEMS   HEIL ENGINEERED PROCESS EQUIPMENT

Instrumentation InSite™ Monitors

BIOTRICKLING FILTERS
- **Sump Liquid Level**
- **Liquid Flow Rate**
- **Piping System Pressure**
- **Recirc Pump Status**
- **Nutrient Feed Pump Status**
- **Nutrient Feed Tank Level**
- **Differential Air Pressure**
- **Hydrogen Sulfide Gas Inlet/Outlet PPM**
- **Airflow/Velocity**

MIST ELIMINATORS / ENTRAINMENT SEPARATORS / GREASE FILTERS
- **Differential Air Pressure**
- **Hydrogen Sulfide Gas Inlet/Outlet PPM**
- **Airflow/Velocity**
- **Inlet Spray Down Frequency**

CARBON ADSORBERS
- **Differential Air Pressure**
- **Hydrogen Sulfide Gas Inlet/Outlet PPM**
- **Airflow/Velocity**
- **Bed Life Indicators**

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