

UOP EXPERT SYSTEMS
COMPUTER-BASED DIAGNOSTIC TOOLS

**Instant access and information
for efficient troubleshooting**

A new solution from UOP: computer-based diagnostic tools

Background

UOP's Expert Systems are computer-based, interactive diagnostic tools that simulate an interaction with a UOP process technology expert while troubleshooting a UOP process unit. The program was originally developed for UOP internal use and is intended to place expert knowledge and experience in the hands of UOP's field service representatives to provide guidance in troubleshooting situations.

Expert Systems cannot replace the UOP technical expert – they are intended to enhance UOP's customer and field service capabilities and improve access to expert knowledge.

UOP has developed the following Expert System tools:

CycleMax™ CCR Catalyst Circulation
Atmospheric CCR Catalyst Circulation
Parex™ Purity
Penex™ Catalyst Deactivation
H₂ Polybed™ PSA
FCC Catalyst Containment
HF Alkylation (coming soon)
Mercox™ Extraction (coming soon)

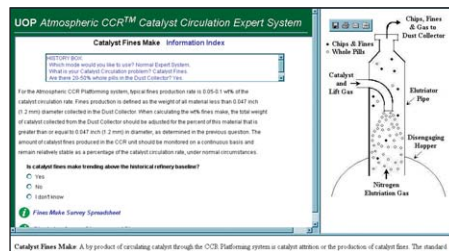


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What You Can Expect

UOP's new Expert Systems provide support, guidance and resolutions to the most common process issues. The user can expect the Expert System to guide them in making productive, systematic troubleshooting decisions and be better prepared for interfacing with UOP technology experts.



The system will identify potential problem causes and suggest solutions for resolution. In addition, the Expert System is a powerful learning tool and can help users become more familiar with the selected process technology. Each tool includes valuable supplemental information such as spreadsheets for standard calculations, photos, flow diagrams, and reference documents to help get the most value from the tool.

Pilot Use with Customers

Although the Expert Systems tools were developed for UOP internal use, we are preparing to offer them to customers on a pilot basis. We expect the system will assist refinery process engineers to:

- Troubleshoot and solve operating problems more efficiently
- Increase understanding of unit operations and potential problems
- Have instant 24/7 access to unique UOP expertise available within the tool
- Use a self-learning tool
- Potentially prevent operating problems

Our objectives for this joint project are to evaluate the benefits and use patterns of the Expert Systems in the refining environment and to assess their value in real troubleshooting events and training situations.

If you are interested in being an early pilot user of a UOP Expert System, contact Blaise Arena at blaise.arena@uop.com or Marty Buchan at martha.buchan@uop.com.

