

# Unit Modeling and Optimization

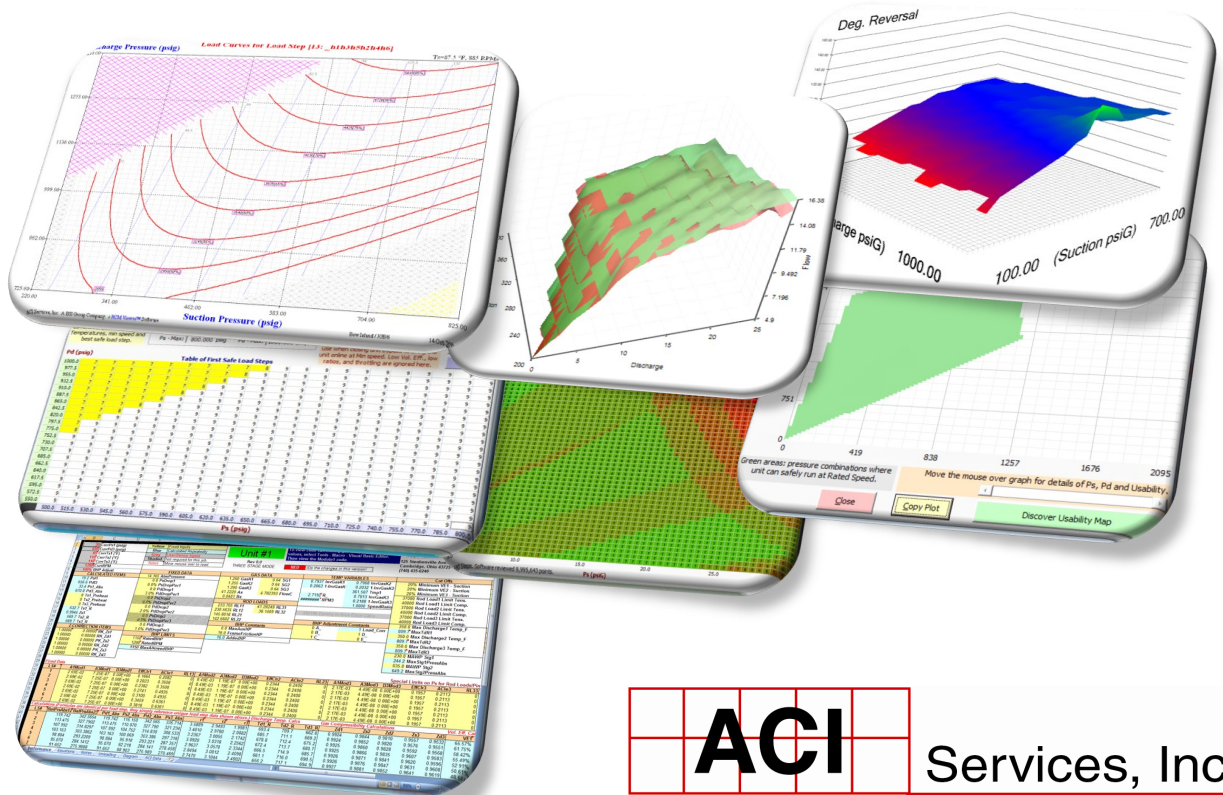
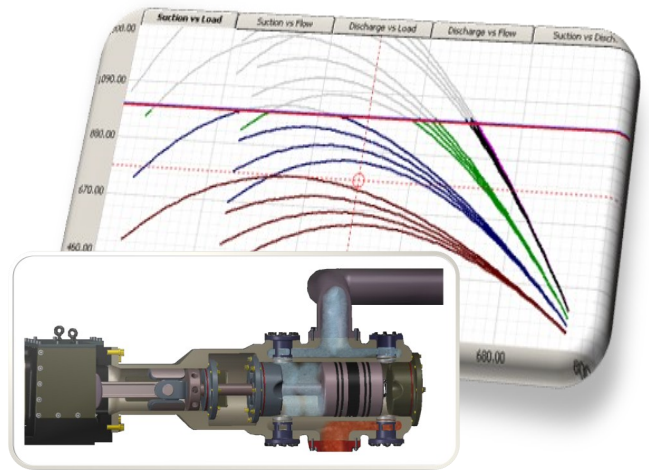
## Unit Modeling, Tuning, and Optimization

Performance reports, flow predictions, and performance curves provide engineering, Gas Control/Dispatch, and operators with valuable information. However, if predicted performance does not match well with unit's measured performance, then expected results will unlikely parallel actual unit performance.

ACI creates compressor models based on unit's hardware geometry via eRCM™ software. Since real-world phenomena, such as dynamic pressure drops and pulsation loading, can significantly affect the load required and actual flow rates, ACI models are tunable towards measured data from analyzers.

Once accurate models of unit performance are created, then individual units or entire compressor stations can be better optimized. All departments benefit from utilizing the same tuned models, including Automation & Control.

ACI models provide robust methods for implementing eRCM™ models into PLCs without significant loss of potential operating maps, maximizing unit coverage while maintaining unit safety. **Your unit's coverage is only as good as its controller permits.**



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