## **Compressor Performance Algorithms and PLC Support**

When a PLC does not properly model the unit it is controlling, then unit optimization is rarely achieved, issues with safety occur, and reduced operating maps are likely.

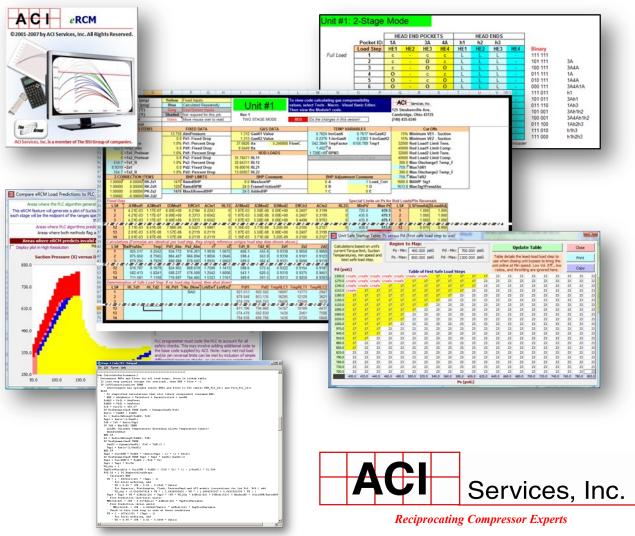
ACI not only provides dynamic compressor performance curves to operators, but the same level of performance prediction can be provided to Automation Controls so that unit is properly modeled in the PLC.

## **Robust Algorithms Provide:**

- Load Predictions
- Flow Predictions
- Fuel Predictions
- Pressure Drop Considerations
- Proper Rod Load Considerations
- Crosshead Pin Reversal Considerations
- Low Volumetric Efficiencies
- Discharge Temperatures
- Safe Startup Maps
- And much more...

## Also Included:

- Load step sequencing chart with load indication for automation purposes
- Alerts for any known areas of concern during compressor operation
- Fast-executing code for Gas Compressibilities and Interstage Pressure Balancing routines
- Automation Methodologies
- Comparisons between PLC-based prediction routines against those from eRCM, or other OEM software



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