

# The new **BENCHMARK** For Simulating and Analyzing Reciprocating Compressors and Pumping Stations



Predicts:

- Power Consumption
- Pulsation
- Pressure Drop
- Flow Rates e.g. MMSCFD
- Efficiency e.g. HP/MMSCFD

Upgrades to:

**AUTOMATED  
DESIGN**

**&  
NETWORK  
SUPERCOMPUTER**

## Major features of **VIRTUAL PUMPING STATION**

Models:

- Complete Station
- Reciprocating Compressors
- Bottles with Choke Tubes, Orifice Plates, Scrubbers, etc.
- Pocket Unloaders
- Deactivation
- Hydrocoms
- Coupled CFD Simulation
  
- Simulation Status Displays
- Virtual Data Acquisition
- Harmonic Analysis
- Visualization of Flow and Pulsation
  
- Integrated Project Database
- Parametric Design





# Why use VIRTUAL PUMPING STATION?

## Accuracy, Convenience & Speed

- With 40 years of R&D and 100s of SAE papers, Virtual Pumping Station is the most accurate 1D simulation tool
- Runs on Windows XP, VISTA, and Windows 7
- Network Supercomputer support for Automated Designs
- Used to invent Performance Augmentation Networks (PAN)

## Flexibility

- Comprehensive design capability
- Powerful Parametric Design capability
- Supports Unloading and Deactivation
- Single License includes up to 5 concurrent users.

## Advanced Post-Processing

- View all gas dynamic or thermodynamic parameters by crank-angle or time
- Create custom AVI (movie) files which can run on any PC
- Understand Pumping Station performance, make better design decisions and create better Stations

## Consulting

- Take advantage of OPTIMUM expert engineers for additional training, Virtual Pumping Station model builds, or complete design projects.

## Upgradeable

- Automated Design
- Network Supercomputer



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