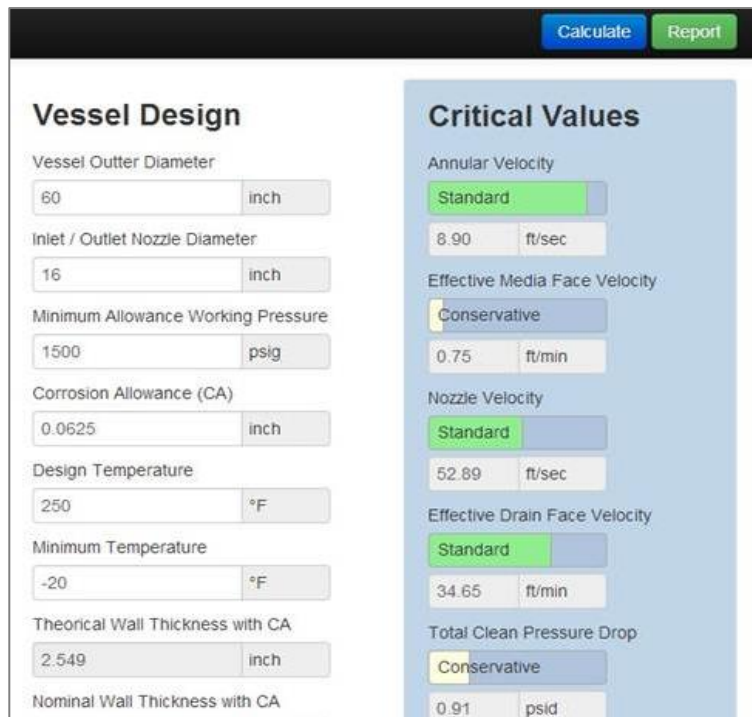


InSim™ Advanced Inlet Separation Simulator

Nexo Solutions' InSim™ was created with the objective of directly impacting process efficiency and profitability. InSim provides engineers and operators with a means to correctly design or evaluate process separation equipment. The advanced algorithms and evaluation criteria utilized within the software allows plants to accurately calculate, compute and determine performance of their systems and then *improve* those systems with the results and interpretation provided.

InSim not only simulates models and tracks separation system performance; it provides detailed interpretation of the critical parameters of the system and reveals areas of deficiency in both vessel design and operating efficiency. This output gives users the knowledge and information as well as the data and justification needed to

optimize and improve upon their equipment and operations. It also calculates a series of parameters critical for systems design and costing. InSim software capabilities include:



The screenshot shows the InSim software interface with two main sections: 'Vessel Design' and 'Critical Values'. The 'Vessel Design' section includes input fields for Vessel Outer Diameter (60 inch), Inlet / Outlet Nozzle Diameter (16 inch), Minimum Allowance Working Pressure (1500 psig), Corrosion Allowance (CA) (0.0625 inch), Design Temperature (250 °F), Minimum Temperature (-20 °F), Theoretical Wall Thickness with CA (2.549 inch), and Nominal Wall Thickness with CA. The 'Critical Values' section displays calculated results for Annular Velocity (Standard, 8.90 ft/sec), Effective Media Face Velocity (Conservative, 0.75 ft/min), Nozzle Velocity (Standard, 52.89 ft/sec), Effective Drain Face Velocity (Standard, 34.65 ft/min), and Total Clean Pressure Drop (Conservative, 0.91 psid). Buttons for 'Calculate' and 'Report' are visible at the top right.

Gas Coalescers

- Vessel Designs
- Vessel Sizing Simulations
- Flux Calculations
- Clean Pressure Drop
- Critical Design Parameters
- Operational Optimization

Gas Filtration

- Element Lifetime Computing
- Flux Calculations
- Clean Pressure Drop
- Extensive Filter Databases
- Vessel Design Simulations

InSim™ Features

- Personalized User Inputs
- Data Vacuolization Capabilities
- Data and Bar Level Visualizations
- Process Data and Parameters
- Vessel Designs
- Pressure Drop Calculations
- Several Internal Designs
- Adjusted for Specific Requirements
- Optimization Criteria per Vessel
- Individual or Company-wide Licenses
- Reporting in PDF format
- User Guide Included
- Technical Support

For additional information on InSim™ simulator, visit our website at www.nexosolutions.com