



FluidFlow3

MODULAR SOFTWARE

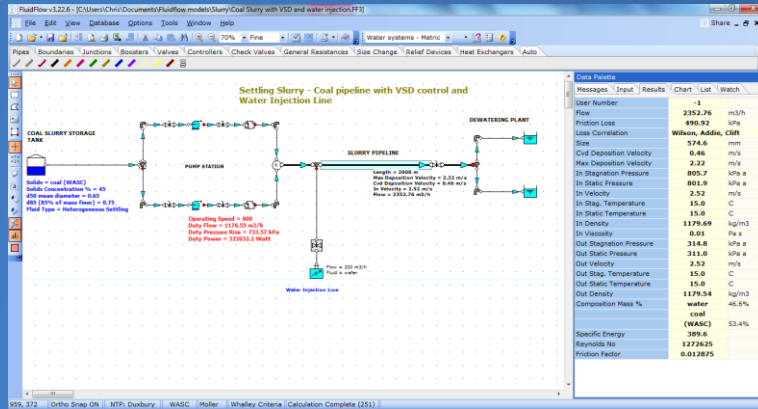
FluidFlow3 uses a modular architecture. This ensures that you only pay for what you use. The available modules are:

- Liquids
- Gases
- Slurries
- 2-Phase
- Scripting

You can start with any module and then add others as and when you need them.

DYNAMIC SYSTEM ANALYSIS

Using proprietary scripting technology unique to FluidFlow3, the software has the ability to dynamically analyse your piping network. This allows time-based system behavior or multiple operating conditions to be analysed quickly and efficiently. With FluidFlow3, you can explore and experiment with the behaviour of your system over a wide range of operating scenarios.. Other applications that scripting can help with include, for example, orifice plate sizing, automatic pipe size optimisation and equipment sizing.



FluidFlow3 - A Powerful Piping System Design application developed by engineers, for engineers. Renowned for its intuitive interface, modeling accuracy and comprehensive support package, FluidFlow3 is used by engineers across the globe for diverse applications.

FluidFlow3 is the culmination of nearly 30 years of research & development and continues to evolve, ensuring the very latest calculation techniques and software design methodologies are implemented to provide a robust and comprehensive package.

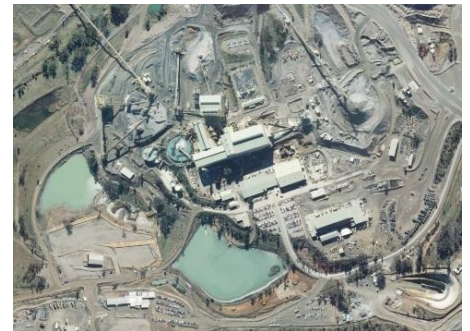
- Intuitive interface ensures modelling is fast, effective and accurate.
- Unified architecture which allows you to model all your fluid flow systems from within the same interface – liquids, gases, 2-phase and slurry flows.
- Comprehensive database included as standard, including over 1150 fully defined fluids and many equipment items ready for use.
- Get a real feel for how a pump will interact with your system with our extensive pump modelling options - including variable speed operation and impeller diameter changes.
- Heat Transfer modelling included as standard.
- Convey complex designs quickly and clearly, with a fully customisable flowsheet. Display key results, colour lines and add text boxes.
- Change parameters for multiple components using the multi-select ability

Slurry Modeling

The FluidFlow3 slurry module enables complex Non-Newtonian fluids and settling slurries to be modeled within your piping system.

Our modeling methods are diligently researched to ensure a high degree of accuracy in a notoriously difficult field. FluidFlow3 takes into account issues such as pipe inclines, laminar flow phenomena and pump deration.

The end result is a tool that is used by Slurry Pipeline designers throughout the world with a high degree of confidence, for applications such as tailings pipelines, metal concentrates and settling ore pipelines.



Hazel Steel, Process Engineer, RWEpower, UK

"We were looking for a product for gas and liquid and have found FluidFlow3 easy to use - it's relatively simple to set up and design even quite complex system models.being able to simulate and try out various operational conditions is very powerful."



Many years of practical experience combined with detailed knowledge of Fluid Flow theory ensures that our development team make FluidFlow3 a high quality, efficient and robust piping system solution every time.



ENERGY EFFICIENCY

Building an efficient, sustainable piping network is key to controlling capital and operating costs through the life of the project. By utilizing FluidFlow3 in the early stages of design, these costs can be optimized through efficient piping design and equipment selection. The same principles can also be applied to existing systems to identify and quantify potential cost savings throughout the system and to reduce your carbon footprint.

New in Version 3.31

- Implemented unique cutting edge tools to help build models faster.
- Automatic Pipe Sizing now includes desired pressure gradient or nominal velocity.
- Automatic Key Equipment Sizing – saving time and effort.
- Automatic Flow Balancing with Orifice Plates, no more iteration in your design.
- Flowsheet Improvements
- Reporting upgrades

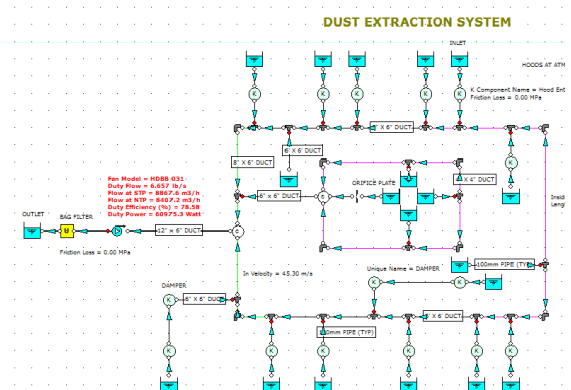


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2-Phase Modeling

2-Phase liquid & gas flows can be modeled using an extensive selection of pressure loss relationships.

FluidFlow3 uses a unique modeling approach which employs well known empirical correlations and applies them to a differential pipe length. This allows for a flash calculation, liquid holdup and flow regime to be determined for each segment and makes allowance of the fact that the pressure loss per unit length changes as the two phase mixture flows down the pipe.



Efficient System Design

FluidFlow3 contains a number of unique features to ensure complex networks can be built, modified and interrogated with ease. These features include:

- 2D and isometric grid selection.
- Automatic node placement when placing pipes (elbows, tees, etc.).
- Intuitive zoom & pan features.
- Ability to Multi-select from flowsheet or list –e.g. select all (or any) 2" pipes and resize to 3" pipe.
- Right mouse click to change components.

GLOBAL SUPPORT COVERAGE

Our products are used successfully by customers in over 50 countries. Our global network of distributors ensures that you have local world class support and assistance in your time zone.

Where ever you are located, you can be confident that we can provide comprehensive technical support and consultancy assistance.

Visit our Website for more details.

www.fluidflowinfo.com

