

## **PIPENET Vision® Release 1.6**

Welcome to the latest version 1.6 of the PIPENET® modules, collectively referred to as PIPENET VISION®. It contains many new features and improvements!

Here is a summary of the new features - see the Help and PDF manuals for further information. We are sure you will enjoy using our product!

### **New Report Generator (all modules)**

- Design the report layouts you want, as Word templates.
- New PIPENET feature to generate results in XML format.
- New Word plug-in, allowing you to insert required PIPENET quantities and tables into your report.
- Combine results from multiple models/calculations.
- Enhance the inserted content (fonts, totals, headings ).
- Insert other content (text, images, etc) as required.
- Automatic update when the calculation is re-run.
- Works with all three PIPENET modules.
- Pre-1.6 report mechanism is still supported.

### **Dry Pipe modeling (PIPENET Transient)**

- Modeling of pipes which start dry, and then fill up.
- Also models pipes that start full and then empty.
- Transient effects in these cases now have a significant increase in realism.

### **Nozzle modeling (PIPENET Transient)**

- Nozzles can now be directly modeled.
- Two behaviors corresponding to Spray versus Standard options.
- "Nozzle priming" sequence.

### **New autolayout shapes (PIPENET Spray/Sprinkler)**

- Horizontal cylindrical tank.
- Spherical tank.
- Design conforms to chosen standards and design rules.

### **New autolayout user interface (PIPENET Spray/Sprinkler)**

- Dynamic inspection of the 3D model.
- Draw curved pipes.

### **Spray Diagrams (PIPENET Spray/Sprinkler)**

- Unwrap autolayout shape to show spray patterns.
- Use colours to distinguish amount of water at each location.
- Results can be printed or included in reports.

### **Pump on/off (PIPENET Spray/Sprinkler and Standard)**

- Flow-rate is now guaranteed zero when the pump is off.

### **Variable Speed Pump (PIPENET Spray/Sprinkler and Standard)**

- Change the performance curve by specifying the pump setting as a fraction of the maximum speed.

### **Units and precision (all modules)**

- Override number of decimal places displayed on schematics.
- Overwrite user-defined units with a standard unit.
- Limit decimal places for "dimensionless" values.

### **Tank Type definition (PIPENET Transient)**

- Tanks Type components (receiving vessels, accumulators, simple tanks, and surge tanks) can be defined by a table of x-section area versus height.

### **Graph Viewer (PIPENET Transient)**

- Graph viewer can display pressure envelope.

### **Miscellaneous**

- The "Delete" key now can be used to delete selected components, and text.
- New output fields in Spray and Standard reports (static head loss, friction factor).
- We have standardised reported version numbers as per the PIPENET release (so in this case, 1.6 which implies the calculator used)
- Two node caisson type 2 modeling - transfer functions and liquid surge relief valve algorithms have been improved..
- Messages for orifice plate warnings in Standard and Spray modules have been improved.
- REStoCSV.exe is a new program to convert Transient RES files into CSV (comma separated variable) format, from which they can be displayed in the tabular format of your choice.
- Installation is less "noisy" – only important messages are displayed.
- ...plus many more fixes and enhancements !