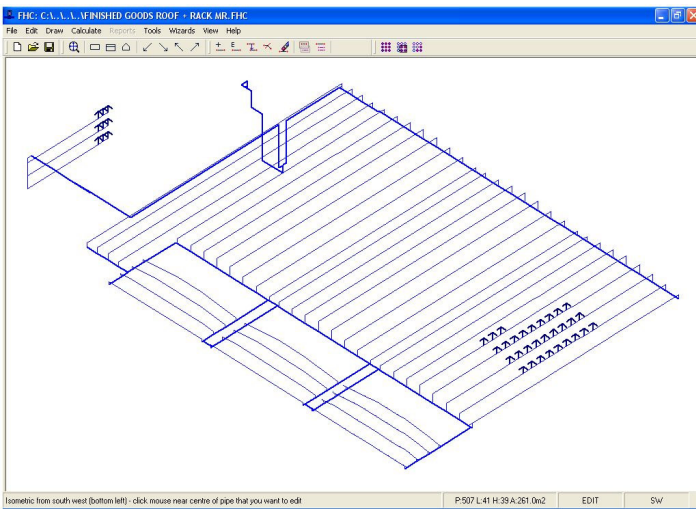


# CANUTE

## FHC Hydraulic Calculation Software for the fire protection Industry

FHC is a world leader in hydraulic analysis software and has hundreds of users in over 30 countries. The software has been successfully used for the design of fire sprinkler systems, water-mist, medium and high velocity water spray systems, hydrants and foam/water monitors. FHC complies with over 12 international standards including LPC, NFPA, FM, BS 5306 part 2, BS 9251 and EN 12845.



With FHC you can build complex hydraulic models simply, with a set of easy to use design tools and you can see the pipe network instantly on the screen.

You can calculate any type of pipework network from simple tree systems to multiple looped systems or any other combination.

As you create the hydraulic model and connect pipe nodes together FHC will automatically find any tees and elbows you have created and will add the fitting to the pipe and lookup the equivalent length in its extensive pipe and fitting database.

Its' fast calculation algorithm will give you results you need in seconds allowing you to concentrate on optimizing the systems for the most economic design.

Pipework pressure losses can be calculated using Hazen-Williams or Darcy-Weisbach equations, making FHC suitable for more demanding systems and high pressure water-mist calculations.

Two design wizards QUICK-GRID™ and TREE PLANTER are included which will help you quickly create a grid system or a terminal end system with minimal information.

FHC will calculate the source pressure and flow requirements or you can balance the system to a fire pump curve, constant pressure pump or to a city water supply.

### Analysis

- Simple on-screen data entry.
- Automatic pipe node numbering or select your own.
- Automatic fitting equivalent lengths lookup
- Fast calculation of the system and instant updating
- Automatic location of the Most Remote Head or the 4 MRH

### Design Tools

- Add, Break, Delete and Move pipe commands.
- Two types of copy command reduce repetitive input.
- Renumber pipe node or the entire systems.
- Make selective or global changes to the Pipe Type, Size, Length, Head Area or Head Type.
- Multilevel undo command.

### Design View

- On screen display of the hydraulic model in plan, front and side elevation and 4 isometric views.
- Zoom command to look at a section in detail.
- 16 different attributes can be displayed on screen including, pipe size, length, pipe flow and pressure, fluid velocity.

### Calculation

- Select individual, group or all heads to calculate
- Set the minimum and maximum pressure velocity pressure.
- Set the maximum allowable pressure drop in a pipe.
- Automatic pipe sizing based on maximum fluid velocity, maximum pressure drop in system or max pressure drop per metre
- Select from 12 different design authorities including NFPA, FM, EN 12845, BS 5306 part 2, BS 9251 and CP 52.

### Reports

- Full hydraulic design report for submitting to the AHJ.
- Head and pipe summary report.
- Check summary report.
- Calculation summary report.
- All reports can be previewed on screen and output to printer or saved directly to PDF.
- Export the calculation results and hydraulic model to DXF file.

### Computer operating system

Microsoft Windows 98, Me, NT, 2000, XP and XP 64 Edition.

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