FINE
GAS

Gas Installation Design

4M

Integrated Workstation for Gas Installation Design

FineGAS combines Design and Calculations in a **F**ully **IN**tegrated **E**nvironment, making all the required calculations for any Fire Fighting Building Installation directly from drawings, and producing thus automatically all the study results: Calculation sheets, technical reports, bill of materials and costing, as well as all the final drawings (plan views, panel diagrams, details) fully updated.

FineGAS consists of two Components, synergistically interacting between each other:

- The CAD Component, a powerful autonomous tool (based on 4MCAD), including a flexible cad interface for designing the installation plus an expert system for producing the final drawings (plan views of the installation, vertical diagram, construction details etc).

- The Calculations Component, an advanced calculation environment, using a spreadsheet-like functionality and a rich methodological background. It provides all the calculation results of the Gas Installation network, in a perfectly presented and completely documented way.

✔ Advanced CAD Interface

FineGAS incorporates an advanced CAD interface for designing any building fire protection installation in two simple steps:

- Location of the Installation components (gas receptors, collectors etc) on the floor plan
- Piping design with simple or more sophisticated routing commands (i.e. "Pipes Parallel to Wall", "automatically connected to the receptors" etc) that speed up the process.
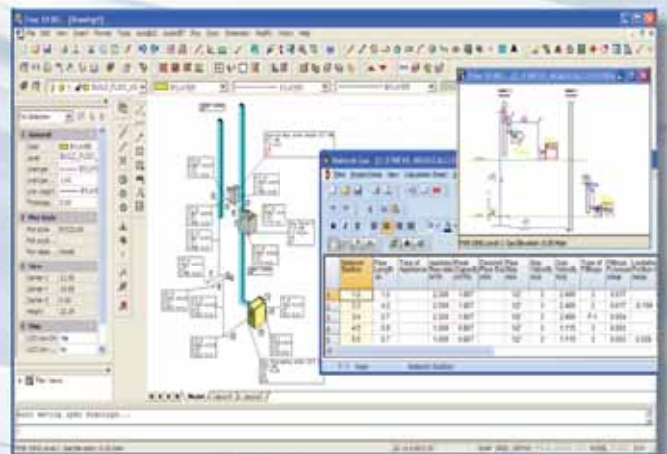
The view plan can be in any DWG or DXF file format or even taken from a scanner (bitmap file). Also the Architectural plan can be drawn from scratch through the AutoBLD (Architectural) commands of the package.
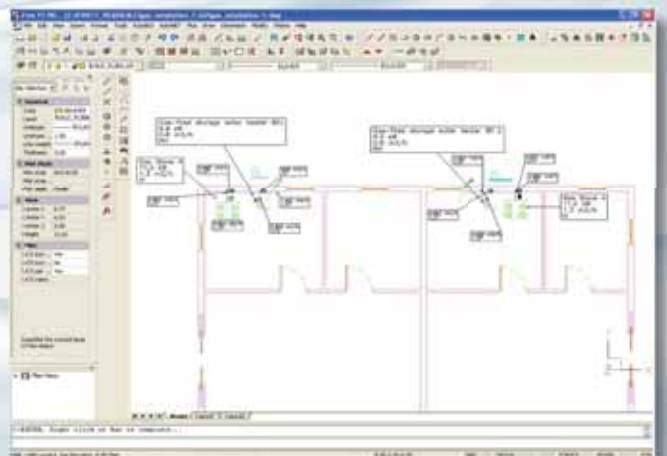
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✔ Complete Calculations directly from the Drawings

The calculation Component of FineGAS is being automatically updated from the installation drawings through the AutoNET group of commands. The network (composed of the piping network, gas receptors and appliances etc), is "recognized" and transferred into the calculation sheets. Further to the piping calculations, FineGAS calculates all the related equipment, as well as the bill of the materials, technical descriptions/specifications and other results. All the calculation outputs are properly organized and completely documented.

✔ Reliable Methodology

FineGAS is based on a rich methodological background, based on European and international standards and National Turkish Standards. The program can meet the needs of Gas installation projects of any size.
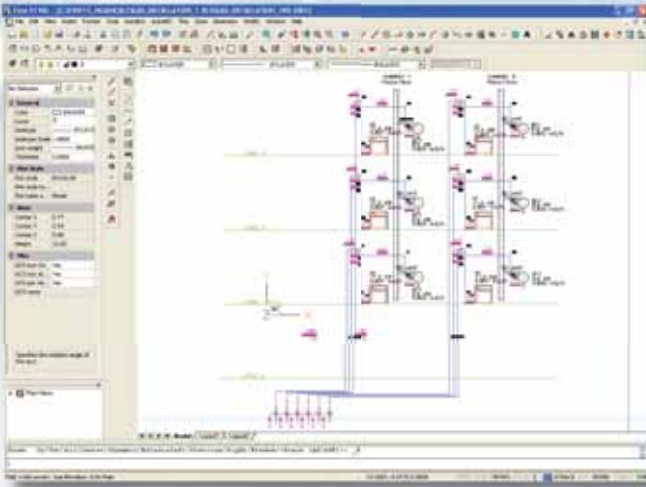
✔ Automatic production of all project drawings

All project drawing are automatically created in a final form:

Detailed View Plan Drawings: Fully updated according to the calculation results.
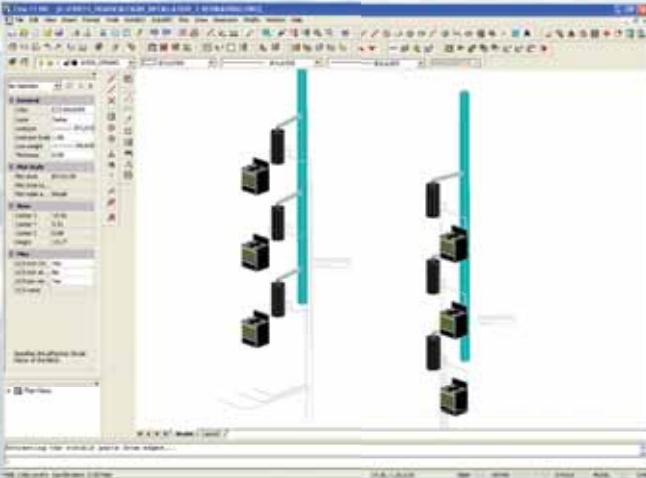
Vertical Diagrams: They include all the information and can be edited by the user.

All the drawings can be edited and enriched, using the special utilities and the symbol libraries which are open to the user.

5 + 1 reasons for working with FineGAS

● Global Design based on Object Oriented Programming (OOP) philosophy, Implemented with the most advanced tools (C++) and a long-range software engineering technology.

● Autonomous CAD (including IntelliCAD with its user license) providing full independency from other CAD environments, but keeping the most popular CAD standards and open dwg communication.

● Work on real 3D model of the project (building plus fire installation networks) from the beginning to the end. Unlimited freedom to create and modify, through parametric dialog boxes, due to the object structure of the whole information.

● Seamless Integration between the CAD Component and the Calculation Component, plus Interactive Communication between drawings and spreadsheets.

● Calculation environment based on a rich and reliable methodological background, adopting the most modern techniques and standards. Results completely documented and perfectly presented.

● 4M-Suite Supports the close cooperation between the Mechanical Engineer and the Architect, Civil Engineer and Electrical Engineer, over any stage of the Building Design process.

FUEL