

EC741

Gas network design

The software automatically sizing the distribution networks of the gas, both knitted open and closed (also to more meshes). With EC741 is possible to dimension the gas networks is at low pressure (UNI 7129), which in medium and high pressure (UNI 11528). It is also possible to calculate also networks in different operating pressure through the use of pressure reducers.

The software can be used to design new networks or verify existing networks, relating to:

- combustible gases (methane, LPG, propane, butane, etc.);
- gas for fire fighting (argon, nitrogen, CO₂, gas halon substitutes, etc.);
- medical gas (oxygen, nitrous oxide, anesthetic gas, etc.);
- industrial gas (compressed air, hydrogen, argon, oxygen, acetylene, ethane, etc.).

You can also use other types of gas provided we know the data required for the calculations.

The software does not calculate networks with two-phase flow (mixture of liquid and gas).

- Possibility of using different types of pipes simultaneously (steel, copper, polyethylene).
- Possibility to design the network both in plan and isometric.
- Possibility to draw more distinct networks within the same project.
- Opportunity to consider the laying of the hoses.
- Possibility to acquire and backgrounds to insert blocks in the design phase of the network.
- Possibility of modifying the diameters chosen automatically by the software, in order to adapt to existing systems or for other special purposes, and recalculate the actual pressure drop.
- Calculation of open mesh networks and closed loop (also to more "mesh").
- Calculating the gain or loss of pressure for height difference (useful for calculating networks of natural gas and LPG);
- The software performs the calculation of the materials used in the project: pipes, valves and fittings;
- Possibility to insert graphical symbols and legends.

