

CoolTool is an established software solution for refrigeration, air conditioning, and heat pump technology, offering an integrated package for traditional trade businesses as well as engineering firms, refrigeration planners, and expert consultants. Key strengths include:

- **Comprehensive system design:** Planning capabilities ranging from simple setups to complex multiplex systems, including piping network calculations and component selection. New challenges—such as trans critical CO₂ systems featuring dual evaporation levels and parallel compression—can be easily calculated and planned.
- **Practical calculations:** Cooling load, air conditioning load, and piping network calculations, along with work involving air humid handling and log(p)-h diagrams, are integrated into a single software package with a consistent workflow.
- **Extensive component database:** Component selection (compressors, heat exchangers, valves, etc.) is supported by a massive, continuously expanding open-source database containing over 30,000 parts, thereby accelerating both selection and planning.
- **Automated documentation:** Bills of materials, automated P&IDs, energy efficiency reports, and other documents are generated automatically, significantly reducing the administrative burden of documentation.
- **Variant comparison:** Different system concepts can be quickly compared to identify technically and economically optimal solutions—covering both direct expansion and indirect systems using secondary coolants.
- **Modular structure:** The software can be customized to specific application requirements and expanded with various modules as needed, allowing it to grow alongside your business needs.
- **Design support for all current F-gases:** And, of course, for all natural refrigerants, including applications involving high temperatures and pressures.
- **Focus on energy efficiency:** Calculations regarding energy consumption, CO₂ emissions, and system optimization for refrigeration, air conditioning, and heat pump systems support economical and sustainable planning.
- **Extensive market experience:** The software has been continuously developed since the 1990s and is used in thousands of Installations worldwide.

Overall, CoolTool is highly valued for its technical depth, high calculation accuracy, and extensive range of functions. The software is primarily aimed at professional users who wish to cover system design, documentation, economic analysis, and energy optimization within a single solution.

System planning using professional software—such as the comprehensive CoolTool package—offers several decisive advantages to the companies that use it:

- Greater planning reliability: Costly planning errors can be avoided. Users benefit from over 35 years of experience and field-proven calculation models for optimized piping network analysis and rapid calculation of design variants.
- Time savings: Automated functions—particularly in drafting—accelerate planning, calculations, and, above all, the creation of necessary documentation.
- Cost reduction: Fewer planning errors mean less rework and material waste. Optimized design prevents the use of mismatched components that would otherwise lead to suboptimal operating performance.
- Improved visualization: Automatically generated P&IDs (Piping and Instrumentation Diagrams) make it easier for Installation and service personnel to understand complex systems, eliminating the need for time-consuming manual drafting.
- Easy modifications: Adjustments can be implemented quickly and automatically updated across all projects.
- Comprehensive documentation: Plans, bills of materials, P&IDs, and design reports are generated automatically and can be kept up to date with ease.
- Support for selling efficient system technology: Simulation tools—incorporating key parameters such as location, load, and control behavior—can reliably determine expected operating costs.

Download the latest demo version, featuring numerous sample projects, here. It is not time-limited, but it operates exclusively with the old refrigerant R12, which is no longer approved for use.

- Please download the ZIP archive to your computer.
- Then, extract (unzip) the ZIP archive.
- The archive contains an EXE file named "SETUP.EXE".
- Important: Please launch this file by right-clicking it and selecting "Run as administrator".
- Then, follow the instructions provided by the Installation program.
- A blue icon will be created on your screen.
- The CoolTool icon points to the directory containing the executable files—"C:\Program Files (x86)\CoolToolDemo"—where the main program, "CoolMain.exe", launches.