

COMPRESS® ABSTRACT

COMPRESS is a pressure vessel and heat exchanger design and analysis program based on the rules of ASME Section VIII. Complete vessels and exchangers, or individual components, can be analyzed.

Features include:

- ASME VIII-1 pressure vessel calculations and reports.
- ASME VIII-2 design by rule pressure vessel calculations and reports (optional).
- UHX, Appendix 26 and TEMA heat exchanger calculations and reports (optional).
- Tube field layout and HTRI software interface (included with heat exchanger option).
- The U.S. Customary and Metric Editions of Section II, Part D as well as a selection of Building Codes and related Engineering Standards, such as WRC-107 and Zick analysis.
- Finite element analysis for nozzles.
- Time saving flange, vessel and nozzle creation wizards.
- Two input modes; design mode, typically used for new construction, and rating mode, typically used for post construction.
 - In design mode, COMPRESS selects sizes, thicknesses and ratings to meet Code requirements.
 - In rating mode, COMPRESS calculates the MAWP and minimum thickness while allowing users to input existing geometries.
 - In both modes, warnings and good engineering practice reminders are presented as warranted.
- Multiple ASME Section VIII Code Addenda (1995 to present) availability from within each version of COMPRESS. This allows Engineers to work on projects spanning multiple years without requiring the installation of multiple software versions.
- 3D visualization of data input. Once your equipment is modeled, COMPRESS quickly generates:
 - A general arrangement drawing.
 - An ASME U or R Form.
 - A detailed calculation report.
 - A 3D solid model that can be exported to third party software such as AutoCAD®.
- Convenient one vessel, one file data storage.
- Management of vessel and exchanger file groups along with related documentation (project feature).

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