# LIQUID COOLING LIBRARY







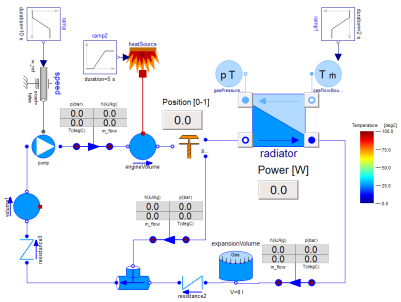
▸ Model library for large cooling and heating networks.

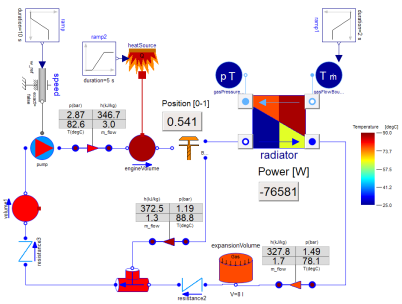
Liquid Cooling Library is designed for efficient handling of small and large distributed liquid fluid networks with thermal energy transport.

The model library supports many types of cooling and heating systems across a range of industries such as automotive, aerospace, industrial equipment and process. Specific applications include engine cooling, motor and power electronics cooling, and battery thermal management.

The library provides a comprehensive set of high performance building blocks for circuit modeling. With full transient thermal response, the library can be used for both system design and control system development.

Users can easily create modified components and new fluid models for integration with existing library components.




## KEY FEATURES

- High performance analysis models of incompressible liquid cooling systems
- Fast computation and zero flow support allow you to analyze full driving cycles including real-time applications
- 25+ internal flow components with predictive geometric and calibratable flow resistance correlations
- 15 + fluid models with temperature dependent properties including water, glycol solutions, oil, and jet fuels
- Pre-configured templates for high performance heat exchanger stack models with 3D visualization
- Operating temperature of components visualized with color coding, also moving positions of e.g. valves and tank levels
- Fully compatible with Modelon thermofluid libraries



Modelon

Liquid Cooling Library is developed and maintained by Modelon.
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Modelon is the premier provider of system modeling and simulation solutions based on Modelica and FMI standards.