

Flownex® SE contains a large library of thermo-fluid components designed specifically for both steady state and dynamic system performance analysis and optimization.

TYPICAL USES:

ANALYSIS

- Simulation.
- Performance assessment.
- Modification assessment.
- Root cause failure analysis.

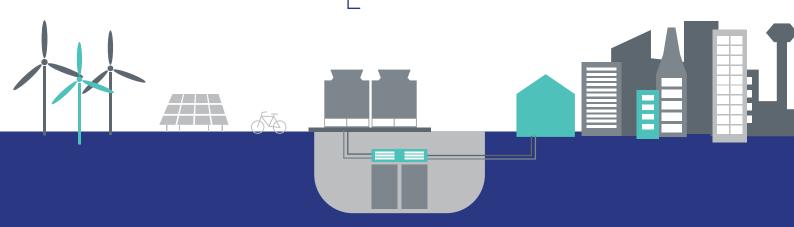
DESIGN

- System sizing.
- Component sizing.
- Determining operating ranges.
- Flow, temperature, pressure, power consumption, etc.
- Testing of control philosophy.

TRAINING

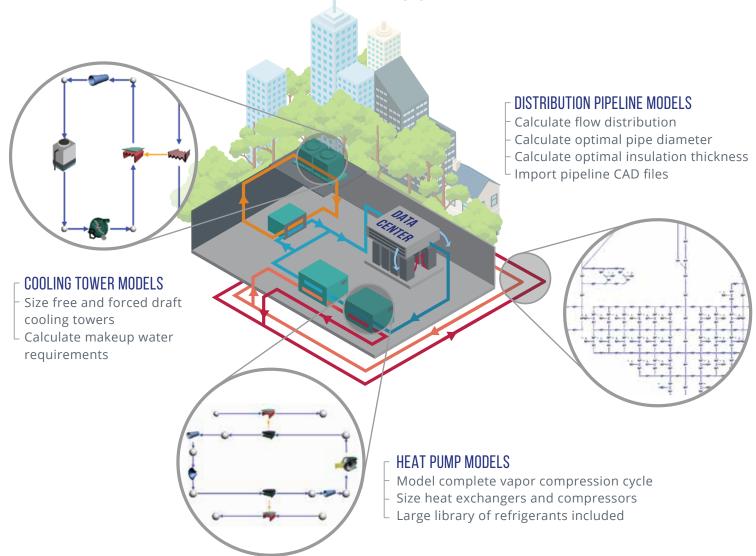
- System behavior examination.
- Performing basic flow and heat transfer calculations.
- Thermohydraulic principles and properties referencing.

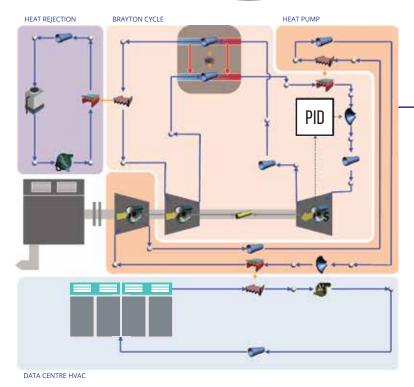
BRINGING NUCLEAR QUALITY AND STANDARDS TO SYSTEM SIMULATION Flownex® is developed in an ISO 9001:2008 quality assurance system and NQA1 supplier approved environment.



Many possible technologies are available for recovering the vast amount of waste heat produced by data centers. Flownex Simulation Environment provides an ideal tool for analyzing and optimizing waste heat recovery system concepts in both steady state and dynamic simulations.

HEAT RECOVERY





WASTE HEAT POWER GENERATION

CONCEPT DESIGN

Power Cycle Selection
Working Fluid Selection

FLOW & CONTROL CO-SIMULATION

Optimize Control System Logic
Investigate Load Changes
Investigate Trip Scenarios

ANSYS INTEGRATION

Co-simulate between 1D and 3D CFD
Complete System Modelling

LINKS TO EXTERNAL SOFTWARE:



