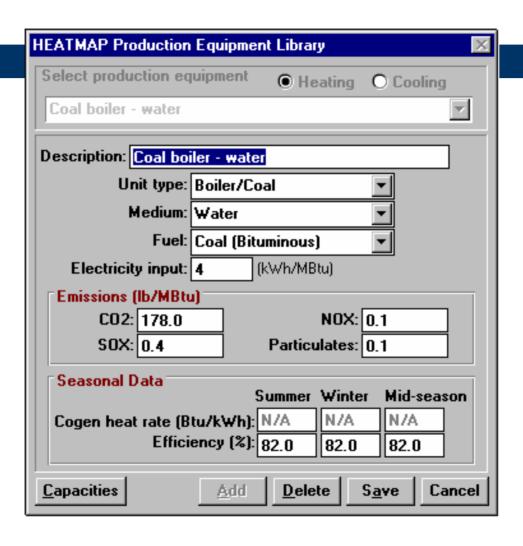
HeatMap CHP

- Developed by Washington State University Cooperative Extension Energy Program (formerly Washington State Energy Office)
- Primary use: Detailed 3-D design simulation of proposed and existing CHP systems using DOE-2 simulation engine
- Provides baseline comparison (existing system)
- Data libraries: weather, building loads, production equipment, fuels, piping
- CHP applications: Process steam, hot water, chilled water, thermal storage
- Analysis duration/time step: 1 year; hourly (8,760 hours)
- Economic analyses: cash flow, revenue requirement, payback
- Cost: \$4,000 (http://www.energy.wsu.edu/software/HEATMAP/)
- Requires separate installation of AutoCad software (approx. \$3,000)
- No free trial or demo versions

Input to HeatMap CHP Is Through Pop-Up Windows



HeatMap CHP Output

- Estimated annual and peak consumer loads
- Annual fuel use and cost
- Capacity & cost of energy plant
- Size & cost of distribution system
- Distribution system flow, temperature, pressure, and heat transfer
- Cost of energy
- Cash flow and revenue requirements
- Annual emissions