Flownex core modules include all modules that form the
core simulation function of Flownex SE.

This is the basic Flownex steady state version. This configuration includes the ability to deal with both liquids and gasses, the ability to deal with adiabatic flows, as well as flows with heat transfer. The network component models included in the standard version are reservoirs, pipes, ducts, pumps, fans, compressors, turbines, heat exchangers, valves and orifices. This configuration also includes visualization graphs, text outputs, result layers, data logger and result export to Excel, buttons, gauges, slid

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stochastic routines used in probabilistic
Study). This capability can be applied t
transient modules.

DESIGN AND ANALYSIS MODULE

The dynamic (transient) simulation features of Flownex include the following: The ability to start the simulation from steady-state or specified initial conditions; Variable

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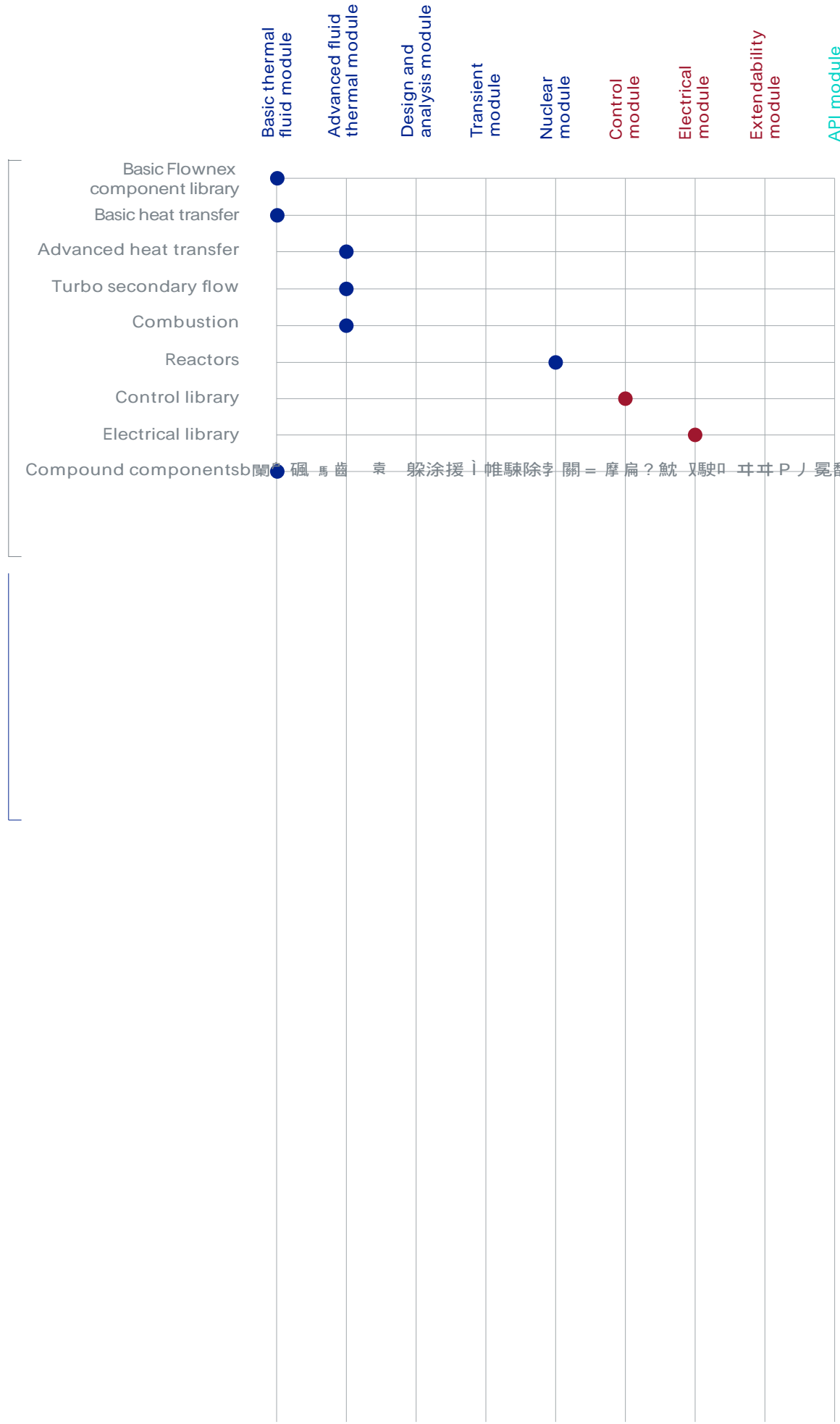
FLOWN
SIMULATION ENVIRONMENT

**Flownex integration modules allow users to
easily integrate with external software**

The Flownex SE automation (API) Application Programming Interface provides the functionality to integrate and automate Flownex SE from most existing Windows applications, e.g. Word, Excel, etc. Any application that allows scripting of Component Object Model (COM), Distributed Component Object Model (DCOM) or ActiveX components can now integrate with Flownex SE. The API is also accessible to any .Net aware application. The API module includes an integration to Simulink (Math Works).

	Basic thermal fluid module	Advanced fluid thermal module	Design and analysis module	Transient module	Nuclear module	Control module	Electrical module	Extendability module	API module
Basic Flownex component library	●								
Basic heat transfer	●								
Advanced heat transfer		●							
Turbo secondary flow		●							
Combustion		●							
Reactors					●				
Control library						●			
Electrical library							●		
Compound components b	●								