

PHENOMENA / TOOLKIT	ESPSS	ECLSS	FLUIDAPRO	TPCS	TURBO	VCS	ACMS	LCS	CRYOLIB	TRITIUM	PPTS	ST-PPTS	ROSIM	PIPELIQ.	PIPELIQTRAN	THERMAL BALANCE	PROCESS
BURNERS																	
Combustors and preburners	X		X		X						X					X	
1D combustion model	X																
Emission calculation	X		X		X												
Startup/Shutdown Calc.	X		X														
NOZZLES																	
Nozzles	X		X		X		X										
1D nozzles and cold thrusters	X		X														
Cooling jackets (two-phase)	X		X														
Transient calc. (startup,...)	X		X														
TURBOMACHINERY																	
Turbines and compressors	X		X		X	X	X		X		X					X	
BETA / ZETA / MFT maps			MFT (optional)		X		X										
Gamma / Reynolds corrections					X		X										
Secondary Air System bleeds					X		X										
Variable Stator Vane Angle					X												
Cooled turbines					X												
INDUSTRIAL DEVICES																	
Industrial reactors		X								X							X
Column distillation										X							X
Furnaces and dryers																	X
Cabin and crew		X					X										
Absorber and separators		X							X								
Electrolyser		X															
Steam turbines	X		X								X	X				X	
Moisture separators		X	X				X				X	X				X	
Membranes		X											X		X		
Heat Recovery Steam Generator																	
Boilers/downcomer			X														
Evaporator/Superheater/economiser			X								X					X	
Fuel Gas; Air Fan, Burners, etc			X								X					X	
Level & Steam P/T controllers			X								X						