







SOLIDWORKS FLOW SIMULATION MATRIX	SOLIDWORKS FLOW SIMULATION	SOLIDWORKS FLOW SIMULATION (with HVAC Application Module)	SOLIDWORKS FLOW SIMULATION (with Electronic Cooling Module)
<p>Ease of Use/Intuitiveness</p> <p>Fully Embedded in SolidWorks 3D CAD Learn Fast: Toolbar Menus, Context Sensitive Right Mouse Menus, Built-in Tutorials, Searchable Help Documentation</p> <p>Intuitive Wizard to Guide the Flow Simulation Setup Get Help Fast: Local and Worldwide Support Services Knowledge Base</p>			
<p>Concurrent Engineering</p> <p>Fully Embedded in SolidWorks 3D CAD Full Associativity with 3D Design Changes Support SolidWorks Configurations SolidWorks Material Properties Support</p>			
<p>Post Processing</p> <p>Contour, IsoSurface, Surface, Section Result Plot</p> <p>Display parameter values at specified points Display parameter values calculated over the specified surface or volume</p> <p>Display flow trajectories as flow streamlines</p> <p>List values on selected entities</p> <p>Compare Mode Tools</p> <p>Animation of Results</p>			
<p>Communication</p> <p>Customizable Flow Simulation Report eDrawings® of Flow Simulation Results</p>			

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<p>Design Comparison Studies Design Comparison with Parametric Simulation</p>	■	■	■
<p>Fluid Flow Simulation Analyze liquid and gas flow Simulate internal and external fluid flow Simulate steadystate and transient phenomena Unique Transitional Turbulence Model Handles Subsonic, Transonic, and Supersonic Regimes Simulate the flow of nonNewtonian liquids Rotating Mesh</p>	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
<p>Rotating Regions Simulate Fluid Driving motion with rotating regions Wall Motion Global Rotation Local Region</p>	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
<p>Thermal Fluid Simulation Simulate heat transfer within fluids and between fluids and solids Consider heat transfer within the fluid and between walls and the fluid (convection) Advanced Radiation Simulation Consider heat exchange through solids (conduction) Include radiative heat transfer between solids</p>	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
<p>Enriched Library Additional Fans from Different Fan Manufacturers Enhanced Solids Materials</p>		■■■■■■■■■■	■■■■■■■■■■
<p>Enriched Library for HVAC Large Database of Specific Building Materials</p>		■■■■■■■■■■	
<p>Thermal Comfort Parameters Simulation Predict the degree of thermal comfort of people exposed to thermal environments (PMV, PPD...) Estimate air quality of environment (LAQI)</p>		■■■■■■■■■■	

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<p>Advanced Radiation Simulation Consider radiation spectrum in heat transfer simulation Consider absorption of radiation in solid bodies</p>			
<p>Tracer Study Study the flow of a certain admixture (tracer) in the existing carrier fluid Measure the effectiveness of a ventilation system in removing contaminated air (CRE)</p>			
<p>Enriched Library for Electronic Cooling Library of Thermoelectric Coolers Library of Two Resistor Components Library of Printed Circuit Boards Library of Interface Materials</p>			
<p>Dedicated Electronic Cooling Simulation Provides Specific models for Electronic Cooling testing (heat pipes, two resistor components, electrical contact resistance, printed circuit boards (PCB)...))</p>			
<p>Joule Heating Simulation Consider Electrical Joule heat release in heat transfer simulation</p>			