SolidWorks Flow Simulation 2024

	Feature	SOLIDWORKS Flow Simulation	HVAC Module	Electronics Cooling Module
1	Ease of Use SOLIDWORKS Simulation is fully embedded in SOLIDWORKS 3D CAD for ease of use and data integrity. Using the same user interface (UI) paradigms as SOLIDWORKS with toolbars, menus, and context-sensitive right-click menus, ensures rapid familiarization. Built-in tutorials and searchable online help aid learning and troubleshooting	√	~	~
2	Design Data Reuse SOLIDWORKS Simulation supports SOLIDWORKS materials and configurations for easy analysis of multiple loads and product configurations	~		
3	Multi-Parameter Optimization Conduct an optimization study for more than one input variable using Design of Experiments and Optimization parametric study. Run a calculation of design points and find optimum solutions.	~	✓	~
4	SOLIDWORKS Flow Simulation Capabilities Compressible gas/liquid and incompressible fluid flows Subsonic, transonic, and supersonic gas flows Ability to consider heat transfer by conduction in fluid, solid and porous media. Could be with or without conjugate heat transfer (Fluid-Solid) and with/without heat resistance (Solid-Solid).	~		
5	Material Database SOLIDWORKS Flow Simulation: A customizable engineering database enables users to model and include specific solid, fluid, and fan behaviors. SOLIDWORKS Flow Simulation and HVAC Module: The HVAC engineering database extension adds specific HVAC components. SOLIDWORKS Flow Simulation and Electric Cooling Module: The Electronic Cooling extended engineering database includes specific electronic components and their thermal characteristics	V	V	✓
6	Internal Calculate the impact of fluid flow through your product	~	✓	~
7	External Calculate the impact of fluid flow around your product	~	✓	✓
8	2D – 3D By default, all calculations are on a full 3D domain. Where applicable, simulations can also be carried out in a 2D plane to reduce run time without effecting accuracy	√	✓	✓

	Heat Conduction in Solids			
9	The calculation of temperature change in the product's solid geometry is an option selection. Conjugate heat transfer through convection, conduction, and radiation can be created. Calculations can include thermal contact resistance. SOLIDWORKS Flow Simulation: Calculate pure heat conduction in solids to identify problems where no fluid exists for fast solutions. SOLIDWORKS Flow Simulation and HVAC Module: Include materials that are semitransparent to radiation, for accurate solutions where the product's thermal load is influenced by transparent materials. SOLIDWORKS Flow Simulation and Electrical Cooling Module: Simulate specific electronics device effects Thermoelectric coolers Heat pipes Joule heating PCB lay-ups	✓	¥	✓
10	Gravity	~	~	~
	Include fluid buoyancy important for natural convection, free surface, and mixing problems.			
11	Rotation			
	Ability to simulate moving/rotating surfaces or part to calculate the effect of rotating/moving devices.	\checkmark		
12	Free Surface	~		
	Lets you simulate flows with a freely moving interface between two immiscible fluids, such as gas-liquid, liquid-liquid, gas-non-Newtonian liquid.			
10	Symmetric	~	✓	~
13	Simulation solution times can be reduced by taking advantage of symmetry. Cartesian symmetry can be applied to x, y, or z planes. Sector period icy allows users to calculate a sector of a cylindrical flow.			
14	Gases	✓		
14	Calculation of both ideal and real flows for subsonic, transonic, and supersonic conditions.			
	Liquids			
15	Liquid flows can be described as incompressible, compressible, or as non-Newtonian (as oil, blood, sauce, etc.). For water flows, the location of cavitation can also be determined.	✓		
	Steam			
16	For flows that include steam water vapor condensation and relative humidity is calculated.	~		

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	Communication & Reporting			
26	Create and publish customized reports for communicating simulation results and collaborating with eDrawings [®] .	\checkmark	V	~
	Two-phase (Fluid + Particles) Flows			
27	Ability to calculate (with the post-processor) in the obtained fields of results, motions of the specified particles (Particle Studies) or flows of the specified extraneous fluids (Tracer Study) in the fluid flow, which does not affect this fluid flow.	\checkmark	\checkmark	\checkmark
-	Noise Prediction (Steady State and Transient)			
28	Noise prediction using a fast Fourier Transformation (FFT) algorithm that converts a time signal to the complex frequency domain for transient analysis.	\checkmark		
	HVAC Conditions			
29	Include materials semi-permeable to radiation for accurate thermal analysis.		\checkmark	
	Tracer Study			
30	HVAC applications vary widely. Considerations for meeting requirements for thermal performance and quality include airflow optimization, temperature, air quality, and containment control.		\checkmark	
	Comfort Parameters			
31	Understand and evaluate thermal comfort levels for multiple environments using thermal comfort factor analysis.		\checkmark	
	Electronic Conditions			
32	Heat Pipes Thermal Joints Two-resistor Components Printed Circuit Boards Thermoelectric Coolers			~