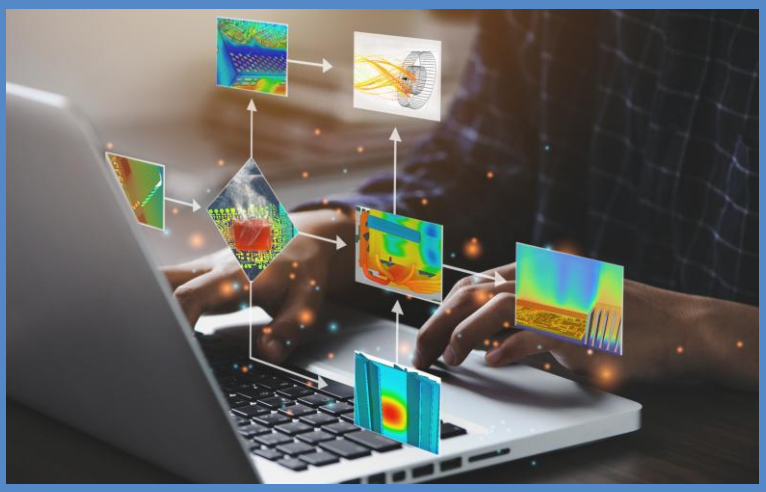
Welcome to the Celsius EC Webinar Series 2025, a comprehensive four-part series designed to help electronic cooling engineers and designers enhance their skills and knowledge in the field. Each webinar covers different aspects of electronic cooling design, modeling, and simulation using Celsius EC and will last 45 minutes.

	When?		
#1	06. Nov. 2025	09:30 a.m. (UTC+1)	Electronics Cooling Design Best Practices with Celsius EC
#2	06. Nov. 2025	11:00 a.m. (UTC+1)	Electronic Cooling Modeling & Simulation Steps with Celsius EC
#3	06. Nov. 2025	01:30 p.m. (UTC+1)	Boost Your Electronic Cooling Designs with Simulation as a Service
#4	06. Nov. 2025	03:00 p.m. (UTC+1)	Electronic Cooling Design Live Demo with Celsius EC
#8	19.10.2025	10:00 Uhr	NEOCORE Technology

ALPHA-Numerics GmbH * Römerstraße 32 * 56355 Nastätten * info@alpha-numerics.de

Webinar #1 Electronics Cooling Design Best Practices with Celsius EC

Are you responsible for the cooling concept of your electronics and looking to gain insights into creating a well-thought-out cooling device? Join us to delve into the best practices for electronic cooling design using Celsius EC. A further webinar is planned for an even deeper insight!



Who Should Attend?

This webinar is ideal for engineers, designers, and anyone involved in the development and operation of electronics cooling systems. Whether you are new to the field or looking to enhance your existing knowledge, this session will provide valuable insights.

What Will We Learn?

During the webinar, we will cover the following topics:

- An overview of the field of electronics cooling
- The importance of assessing a cooling concept as a whole
- Key components and their fine-tuning for effective cooling, including:
    - PCB board
    - Air heat sink
    - Fluid cooler
    - Connecting elements
    - Air paths
    - Installation & operation conditions
    - Contact points/interface material

Takeaways

By the end of the webinar, you will have a comprehensive understanding of:

- The physics behind electronic cooling
- How to optimize various components for better cooling performance
- Practical tips and strategies for implementing a robust cooling design

This webinar is part of a four-part series [LINK] designed to help electronic cooling engineers and designers enhance their skills and knowledge in the field.

Webinar #2 Electronic Cooling Modeling & Simulation Steps with Celsius EC

Are you curious about when it makes sense to use thermal & fluid simulation software, what minimum amount of data is required, and the advantages of carrying out a 3D simulation of a cooling device? Join us to explore the steps involved in electronic cooling modeling and simulation using Celsius EC.

Who Should Attend?

This webinar is ideal for engineers, designers, and anyone involved in the development and operation of electronic cooling systems. Whether you are new to the field or looking to enhance your existing knowledge, this session will provide valuable insights.

What Will We Learn?

During the webinar, we will cover the following topics:

- When adopting industrial-grade thermal & fluid simulation software
- The advantages of modeling & fluid-thermal simulation over the physical trial & error
- How Celsius EC works and represents your geometry, materials, and operating conditions into a simulation model
- The effort and knowledge required to work adopt simulation software

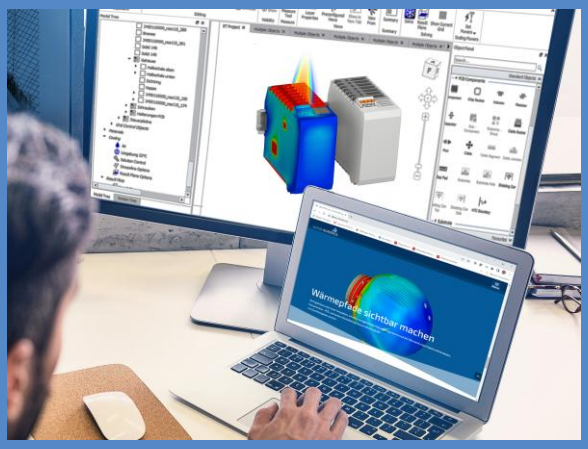
Takeaways

By the end of the webinar, you will have a comprehensive understanding of:

- When and why to use thermal & fluid simulation software for cooling
- The process of translating physical data into simulation model

Webinar #3 Boost Your Electronic Cooling Designs with Simulation as a Service

Are you interested in learning when it makes sense to use simulation as a service, what data you need to provide as an input, and what you can expect in terms of costs, timeline, and outcomes? Join us to hear from us about all the points that matter in the process of a typical Simulation as a Service design project.



Who Should Attend?

This webinar is ideal for managers, engineers, system integrators, service providers and anyone involved in the development and operation of electronic cooling systems. Whether you are new to the field or looking to enhance your existing design team, and system integrator capabilities, this session will provide valuable insights.

What Will We Learn?

During the webinar, we will cover the following topics:

- When it makes sense to use Simulation as a Service
- Information required for a cost and timeline estimate, including:
  - Data to provide
  - Planning meetings for new customers
  - Performance goals and parameters
- Modeling and simulation steps, including:
  - Implementation and validation of a simulation model
  - Design milestones
  - Postprocessing and analysis

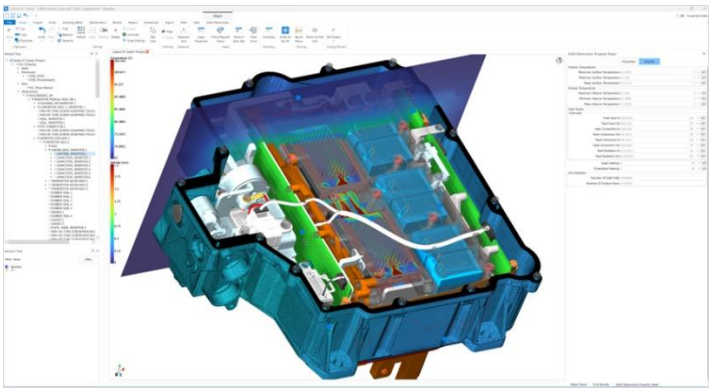
Takeaways

By the end of the webinar, you will have a comprehensive understanding of:

- The process behind a typical Simulation as a Service engagement
- The information required for a cost and timeline estimate
- Practical tips and strategies for effective modeling and simulation
- Discussion of results and explanation of potential design improvements

Webinar #4 Electronic Cooling Design Live Demo with Celsius EC

Are you interested in gaining a deep insight into the thermal & fluid modeling and simulation capabilities of Celsius EC? Join us to explore the various features, ease of use, speed, and advantages of Celsius EC through a live demonstration.



Who Should Attend?

This webinar is ideal for engineering managers, engineers, designers, and anyone involved in the development and operation of electronic cooling systems. Whether you are new to the field or looking to enhance your existing knowledge, this session will provide valuable insights.

What Will We Learn?

During the webinar, we will cover the following topics:

- Importing electronic hardware data
- Setting up material properties and boundary conditions
- Data import and export of data from and to other analysis tools
- Modeling steps
- Meshing tips & tricks
- Setting up of physics
- Postprocessing, results, and reporting

Takeaways

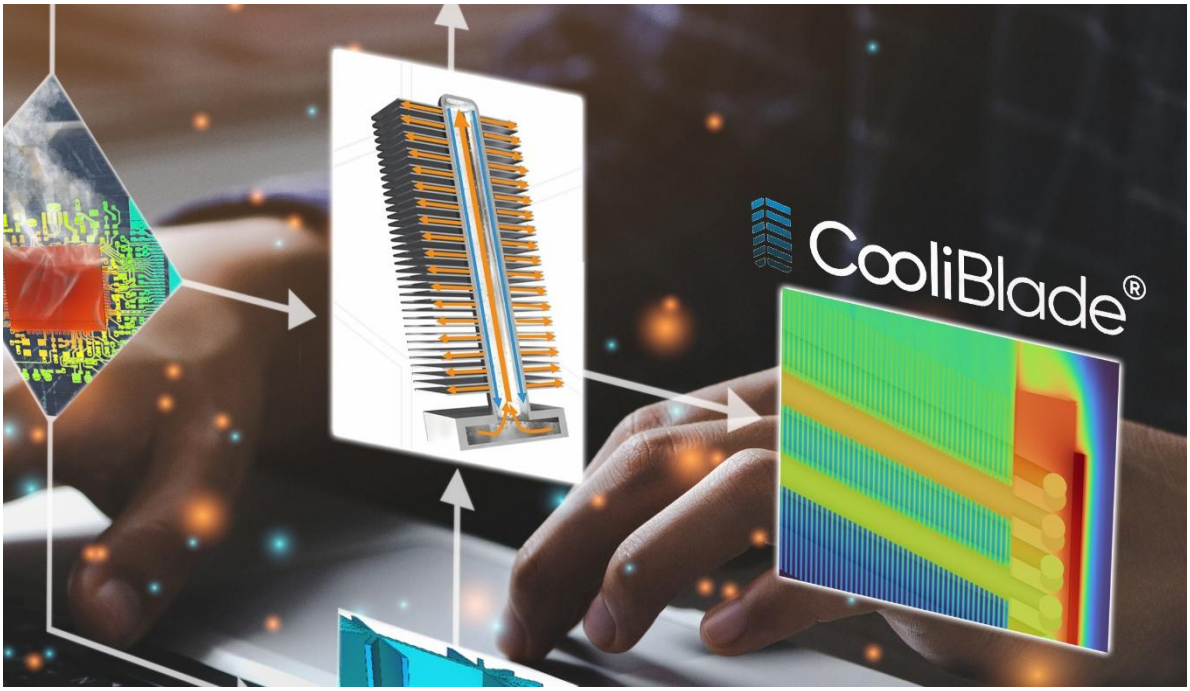
By the end of the webinar, you will have a comprehensive understanding of:

- Celsius EC electronic cooling modeling and simulation capabilities
- How to import and exchange data with other tools
- Practical tips and strategies for effective set up and meshing
- How to run an analysis and generate reports
- How to reduce time to market and design costs

This webinar is part of a four-part series [LINK] designed to help electronic cooling engineers and designers enhance their skills and knowledge in the field.

Webinar #8 Discover the NEOCORE Technology

Are you interested in learning more about CooliBlade's NEOCORE technology? Then don't hesitate to register. The webinar lasts approximately 40 minutes and will guide you through CooliBlade's core products. In this webinar, you will learn how CooliBlade works and see its performance for yourself.



Who Should Attend?

This webinar is ideal for engineering managers, engineers, designers, and anyone involved in the development and operation of electronic cooling systems. Whether you are new to the field or looking to enhance your existing knowledge, this session will provide valuable insights.

NEOcore redefines thermal management for power module applications by integrating thermosyphon technology directly into a high-performance heatsink. The fully integrated aluminum structure eliminates additional thermal interfaces, significantly improving heat transfer efficiency compared to traditional heat pipes.

- 1. Large Evaporators: Ensures even cooling across the entire module, preventing localized overheating and optimizing heat transfer.
- 2. Integrated Thermal Channel: An aluminum structure, allowing for instant and uniform heat dissipation.
- 3. Condenser: Designed to maximize heat transfer efficiency through advanced airflow integration.

By combining these elements into a fully integrated thermal system, CooliBlade enables scalable, high-efficiency cooling solutions that outperform traditional methods.