

NEWSPACE MARKET · COMPANY PROFILE

CALYOS

Calyos

Belgium · calyos-tm.com

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as of 20 August 2026



Calyos

Calyos is a Belgian thermal management company based in Charleroi (Jumet), specializing in passive two-phase cooling technologies. The company develops and manufactures heat pipes, loop heat pipes (LHPs), pulsating heat pipes (PHPs), and micro channel heat pipes (MCHPs) for demanding thermal management applications. Two-phase cooling technologies are used in space applications for managing waste heat from electronics and propulsion systems — Calyos has worked with ESA and aerospace primes on thermal management solutions. Their passive approach (no moving parts, no pumps) makes their products well-suited to the reliability requirements of space systems. Calyos serves markets in e-mobility, data centers, renewable energy, and specialized equipment. The company is supported by the European Regional Development Fund and the Wallonia Region of Belgium.

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SERVICES

Services

Advanced Modelling and Simulation

Calyos provides advanced modeling capabilities that integrate physics-based simulations with complex models derived from empirical test data to ensure accuracy in two-phase cooling system design.

Design and Production of Cooling Systems

Calyos designs and produces cooling systems using various two-phase technologies, leveraging their expertise in proprietary wick structures, fluid selection, and vaporization/condensation processes.

Mass Production Fulfillment through Partner Network

Calyos leverages a robust network of production partners to fulfill clients' mass production needs with precision and efficiency across various markets.

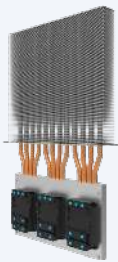
Prototype Testing and Thermal Performance Evaluation

Calyos' Testing Laboratory offers precise testing of prototypes and solutions, specializing in replicating real-world scenarios and evaluating thermal performance with expert test engineers.

Rapid Prototyping and Small Series Production

Calyos' Innovation Factory offers rapid prototyping and efficient small series production, enabling quick adaptation to customer demands and shortening the development cycle.

Product catalogue



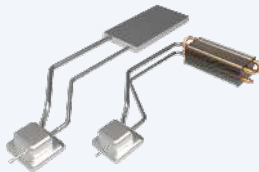
CALYOS

Heat Pipes (HP)

Traditional heat pipe technology providing low thermal resistance passive cooling — scalable to application size, exploits latent heat of vaporization.

Technology	Latent heat of vaporization, wick return
Applications	Data centers, embedded electronics, batteries, power electronics

price on request



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Loop Heat Pipes (LHP)

Long-distance passive heat transport for high heat flux applications — up to 100% less power, 10x lifetime, and 30% less weight than water-based cooling.

Power vs. water-based cooling	Up to 100% less
Lifetime vs. water-based cooling	Up to 10x
Weight vs. water-based cooling	Up to 30% less

price on request

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Micro Channel Heat Pipes (MCHP)

Hybrid HP-PHP flat aluminium heat pipe design — lightweight, customizable in length and bends, for batteries and embedded electronics.

Design	Flat aluminium, customizable length and bends
Applications	Batteries, embedded electronics, radar/lidar sensors

price on request



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Pulsating Heat Pipes (PHP)

Oscillating heat pipe technology with less reliance on gravity — customizable thin/3D form factors, PHP Spreader research prototype dissipates 800W.

PHP Spreader dissipation	800W
Applications	Power electronics, inverters, on-board chargers, sensors

price on request

Contact Calyos

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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