



AAVID
THERMALLOY

LED THERMAL MANAGEMENT

Cooling Solutions for LED Lighting

Make it Reliable. Make it Powerful.

Make it Synjet®



Spotlight LED Cooler 34W

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Celebrating 50 Years of Innovation | 1964-2014

Retail lighting, Reference design,
Industrial lighting



Retail lighting



Reference design



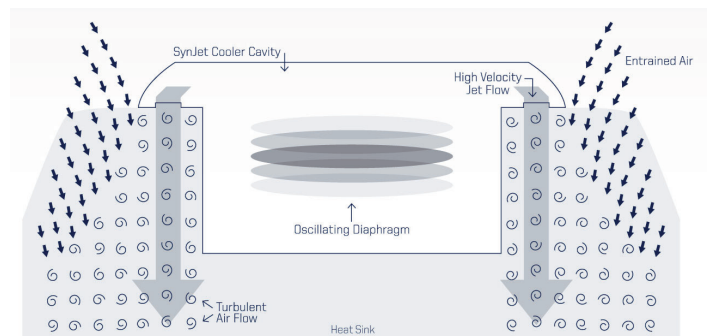
Industrial lighting

Over the past 5 years millions of heat sinks and SynJet coolers have been shipped around the world for use in LED Lighting. Our unique technology allows for flexibility in design and increased thermal performance – which in turn allows for aesthetically pleasing luminaires that perfectly demonstrate the benefits of lighting with LEDs.

We are determined to deliver the best possible cooling solutions that provide energy efficiency and durability in the smallest size possible. Our thermal management solutions are currently used in thousands of installations around the world, ranging from rugged industrial environments to retail spaces and museums to the lamps that light our homes.

How SynJet® Technology Works

1. An oscillating diaphragm creates pulses of high velocity turbulent air flow.
2. The high velocity flow “entrains” or pulls air in its wake increasing overall air flow by as much as 5 times.
3. The turbulent air flow improves the heat transfer out of the heat sink, while the entrained air sweeps the hot air out of the system, thus cooling more efficiently.



The SynJet® Difference

Flexible

- >> Allows manufacturers and designers to fit more lumens into less space
- >> Cools more effectively – enables the same lumen output with a heat sink that is 60% smaller

Reliable.

- >> Lasts longer than the LEDs it cools, with more than 100,000 hours of runtime
- >> No components or ball bearings that can wear out or need replacing

Rugged.

- >> Resistant to dust build up as well as bumps and vibrations
- >> Designed to run in applications as cold as -40°C to as hot as 85°C

Quiet.

- >> High thermal efficiency airflow results in lower flow rates and reduced noise
- >> Adjustable settings to customize to end user needs



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LED COOLING SOLUTIONS

Solutions are available for all major light engine manufacturers including Bridgelux, Citizen, GE, Philips, Sharp, Xicato and others. We also provide round and rectangular solutions for most lighting form factors.



LED Heat sinks

Heat sinks for use passively or with a complementary Synjet.

SynJet® LED Coolers

The Aavid Synjet is a plug-and-play solution that is easy to implement in all LED lighting applications. They are specifically designed to solve thermal management problems that cannot be resolved with passive solutions alone, such as LED fixtures in confined spaces, high temperature areas or retrofits that require the most efficient thermal performance.

Popular Applications

Downlights

Up to ~8000 lumens

Compact solutions for small diameter, low profile or confined spaces



Spotlight LED Cooler 60W

Outdoor Lighting

Up to ~20,000 lumens

Designed for rugged environments, thoroughly tested to withstand even the roughest conditions.

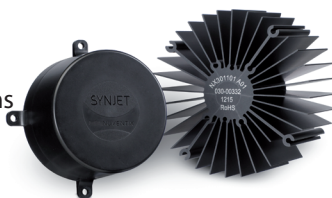


Outdoor Wall Wash LED Cooler 82W

Tracklights

Up to ~5000 lumens

Small, high power solutions for when size is a limiting factor and aesthetics are important.



Spotlight LED Cooler 47W

Industrial Lighting

Up to ~20,000 lumens

Reliable solutions for bright LEDs that enable lightweight, lower cost luminaire structures.



LED Cooler R150-170

To browse Aavid's full line of cooling solutions along with product specifications and design and assembly guidelines, visit www.aavid.com

Aavid: Breaking the boundaries of cool

For over 50 years Aavid has been dedicated to developing answers to the increasingly difficult problem of energy efficient and space saving thermal solutions for electronics. For the LED lighting market SynJet® offers a reliable, quiet and effective cooling solution in a wide variety of sizes and form factors.

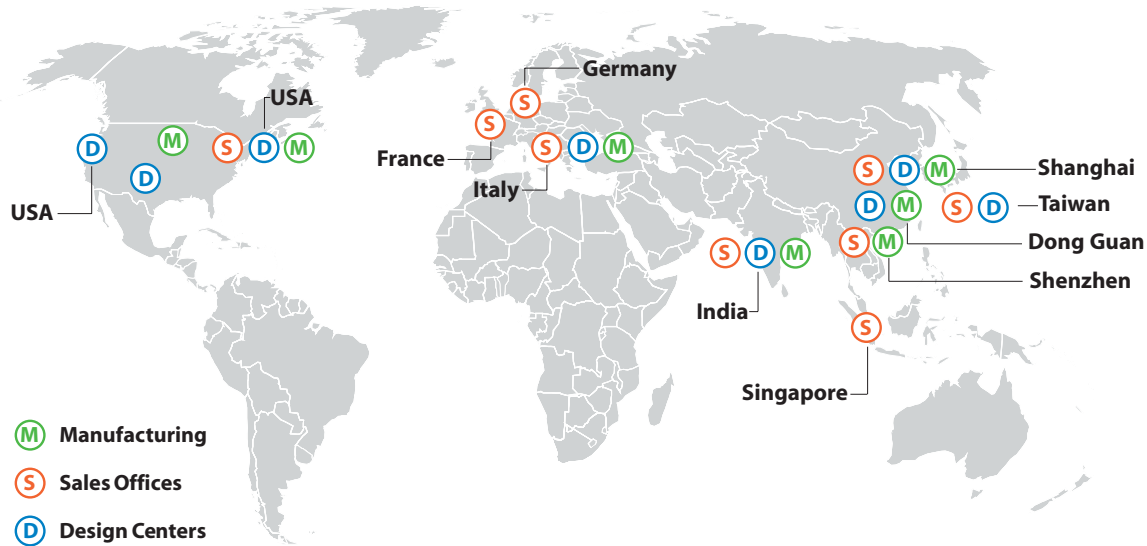
Additionally, the energy efficiency of SynJets maintains the LED lighting value proposition and lowers costs for the end users. Utilized by customers worldwide, Aavid continues to develop new solutions for the ever evolving LED lighting industry.

To learn more about Aavid LED Thermal Management visit www.aavid.com



**AAVID
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*Successfully delivering electronics
cooling solutions since 1964*



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