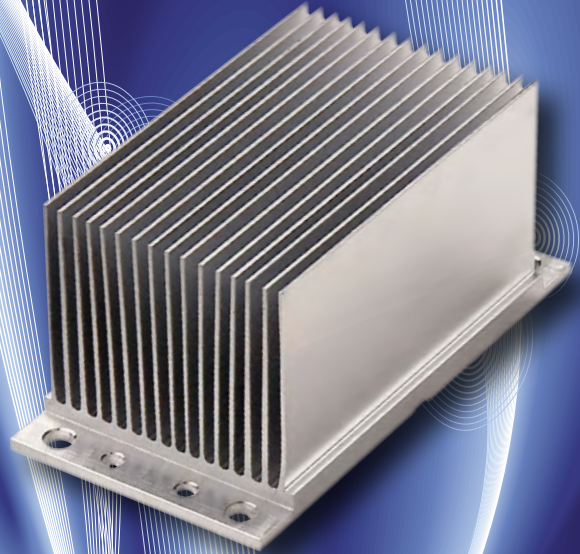
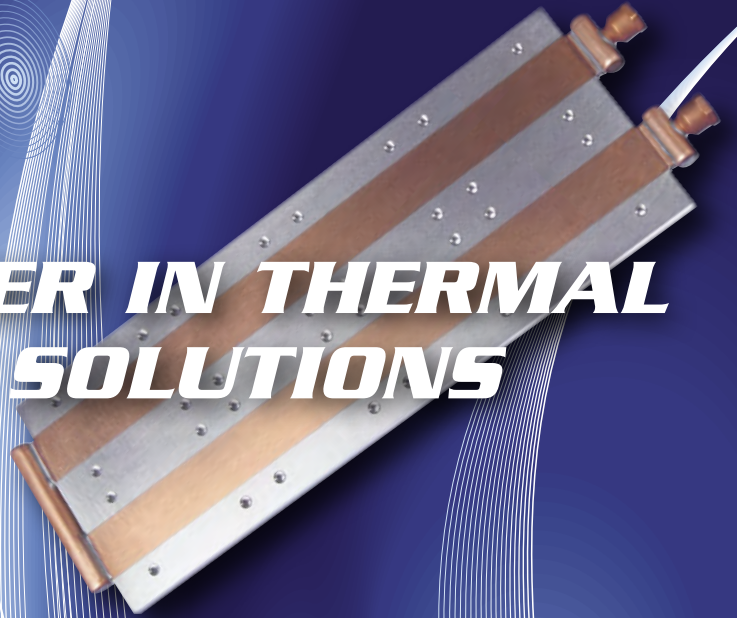
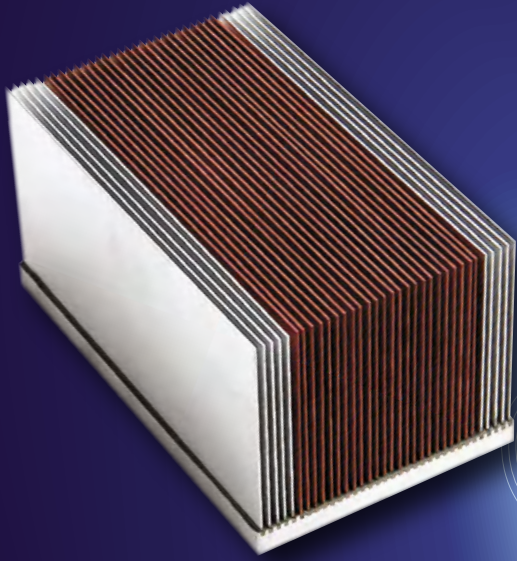


***THE GLOBAL LEADER IN THERMAL  
MANAGEMENT SOLUTIONS***



[www.vettecorp.com](http://www.vettecorp.com)

**Contact Vette Today and Let Us Provide  
A High Performance Thermal Solution.**

***1-585-265-0330***

***sales@vettecorp.com***

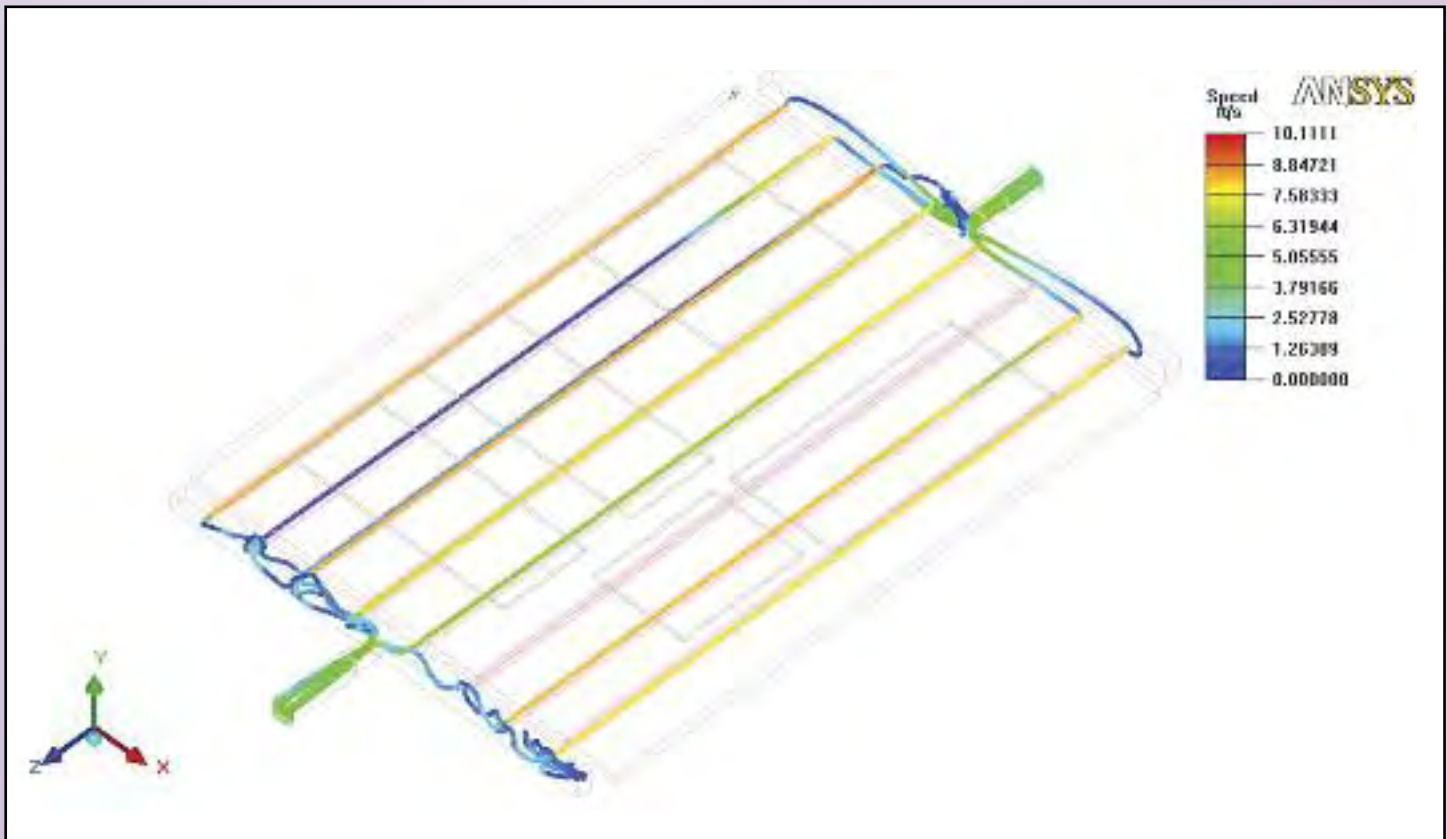




## ***VETTE'S ENGINEERING DEPARTMENT IS STAFFED BY SOME OF THE TOP EXPERTS IN THE INDUSTRY.***

Using the latest computer modeling software, we can assist you in fine tuning your thermal designs by providing “real world numbers.” All thermal analyses are done based on each customer’s design parameters. Corners are not cut by using an existing design that comes “close” to what is needed.

At Vette we feel that the best place for cost reduction is up front, starting with the basic design. That is why we look at all aspects of form, fit, and function. In many cases the heatsink is the largest component in the system. Any size reduction or structural function that can be incorporated can reduce the over-all system cost.



***LET VETTE BECOME A MEMBER OF YOUR SYSTEMS DESIGN TEAM.  
CALL US TODAY AT 1-585-265-0330***

## ***LIQUID COOLED COLD PLATES***

For the ultimate in thermal performance, Vette provides a full line of liquid cooled and cold plate applications to fit your high power needs. With today's power devices becoming smaller and more powerful, liquid cooling is coming to the forefront as the best thermal solution. Packaging can be compact, noise is kept to a whisper, and semiconductors can look forward to a longer life due to reduced temperatures.

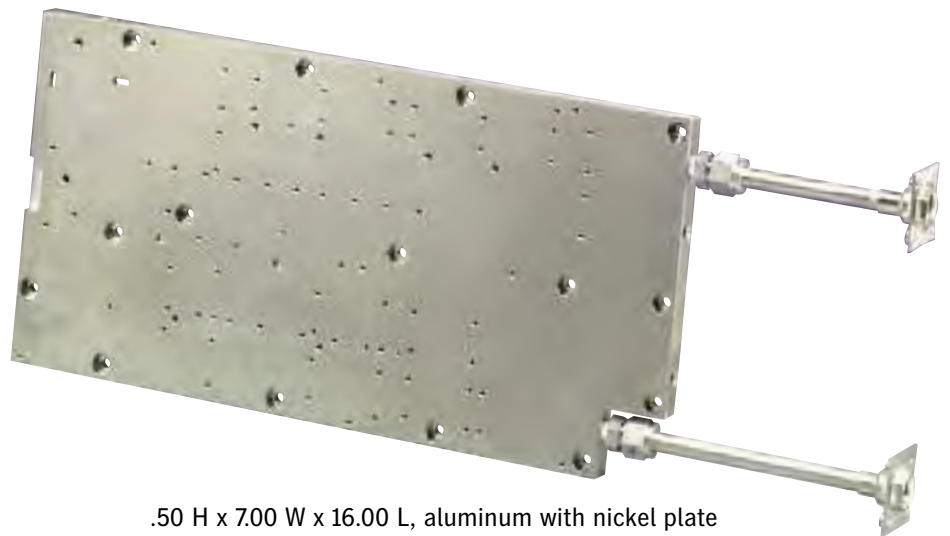
Vette's precision tube-forming capabilities can open up designs to virtually limitless configurations. Cold plates can be manufactured out of aluminum, copper, or both, with or without tubes. Folded fin can be added internally for enhanced cooling. Vette can also provide pumps, heat exchangers, or chillers for a complete cooling system. When it comes to liquid cooling, Vette is the industry leader!

### **Liquid Cooled Cold Plates Include**

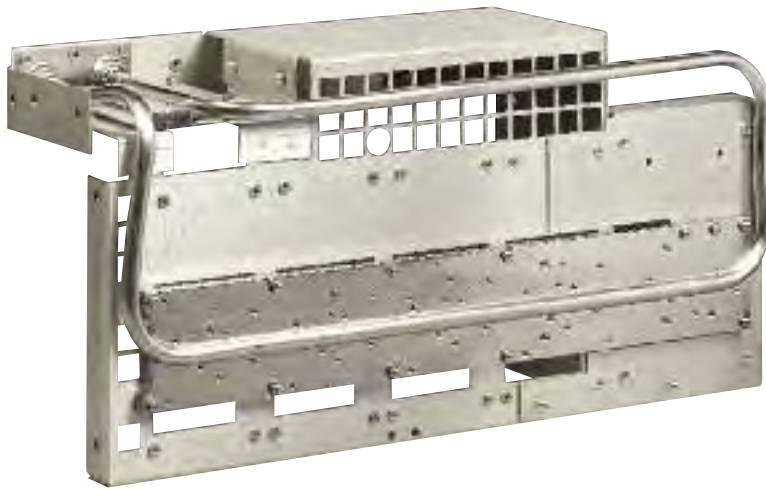
- Aluminum extended with copper tubes
- Aluminum machined with copper tubes
- Copper with tubes
- Copper machined
- Liquid cooled with forced air back up
- Maximum size 64" x 32"
- Standard Features:
  - RMS surface finish 64 max.
  - Pressure tested 150 psi standard



.62 H x 12.00 W x 14.00 L, copper with nickel plate



.50 H x 7.00 W x 16.00 L, aluminum with nickel plate

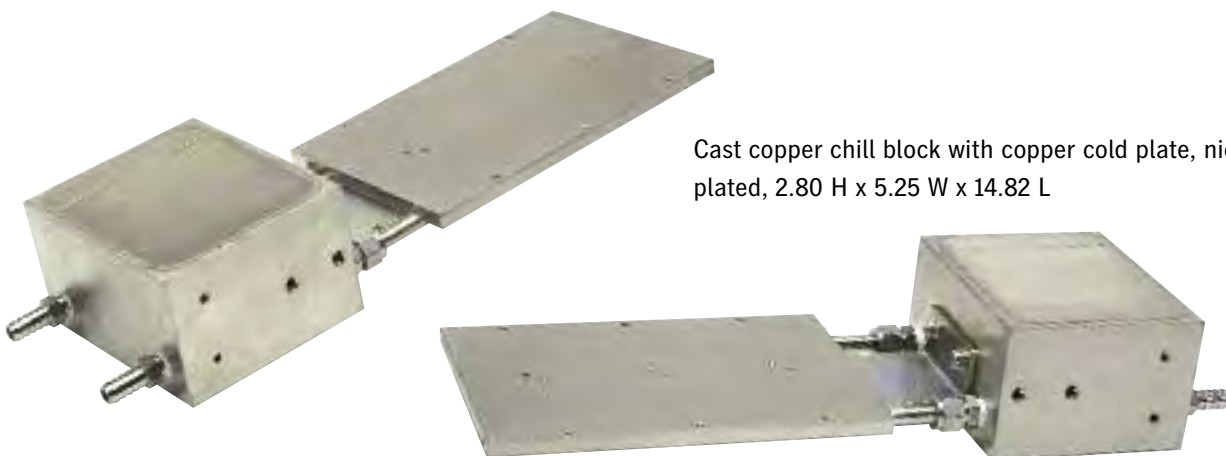


4.58 H x 8.22 W x 16.50 L, aluminum bases, with soldered copper tubes, nickel plated

.75 THK x 3.40 W x 64.00 L



.650 H x 11.68 W x 23.00 L

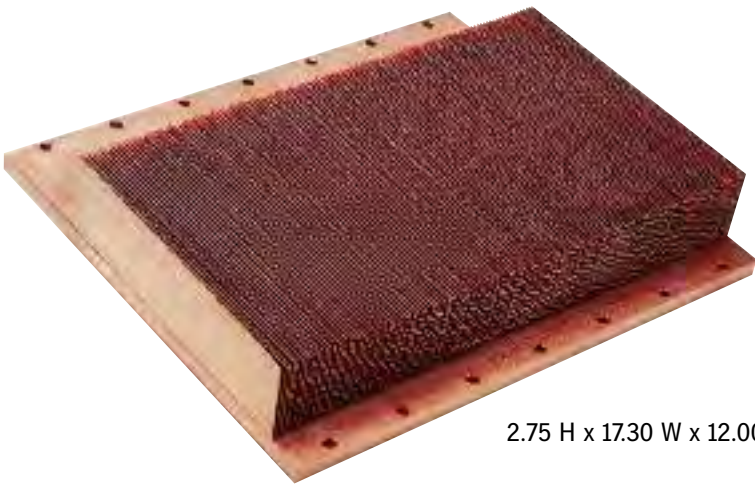


Cast copper chill block with copper cold plate, nickel plated, 2.80 H x 5.25 W x 14.82 L



***COPPER AIR COOLED HEATSINKS***

If you have the ability to use forced air, we have the best performance in the industry. Power requirements in terms of power per square inch are increasing and the spaces allotted for these devices are decreasing. With a thermal transfer rate almost double that of 6063 aluminum, copper is an excellent choice for spreading the heat, moving it out to the fins and into the air. The ability to spread heat quickly allows for a smaller package size. All of our copper products are processed to achieve the highest thermal transfer between the base and fin stock. We offer two basic design styles – single fin and folded fin.



2.75 H x 17.30 W x 12.00 L, with bright dip chromate



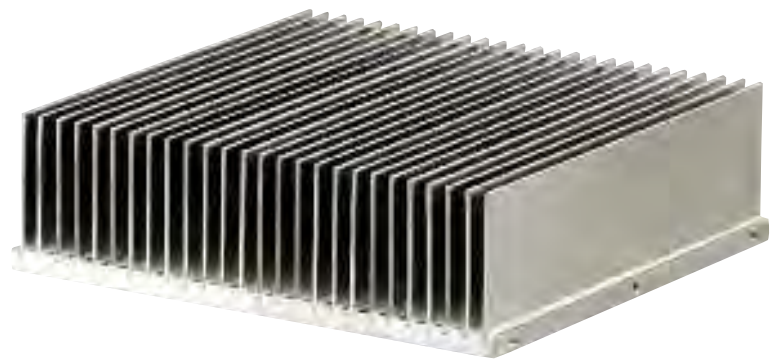
3.98 H x 12.1 W x 13.45 L, with bright dip chromate



.33 H x 2.78 L x 4.60 W, with nickel plate



3.00 H x 6.00 W x 7.06 L, with nickel plate

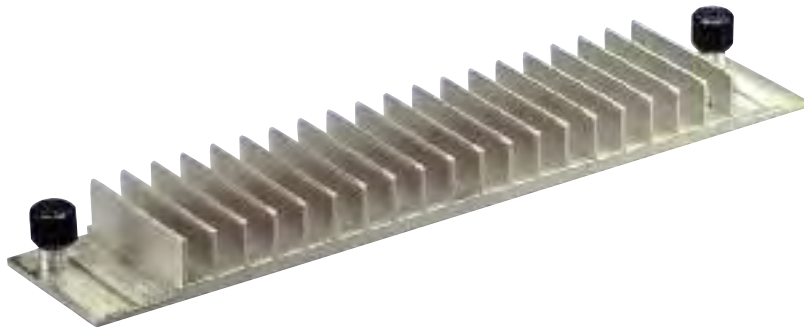


1.63 H x 6.00 W x 5.60 L, with nickel plating

## ***EXTRUDED HEATSINKS***

For the finest in extruded air-cooled heatsinks, turn to Vette. Let us assist you with your next extrusion design. Based on inexpensive tooling costs, extruded aluminum heatsinks can do so much more than just cool down your semiconductors. Vette is not an extruder nor do we pretend to be. No one extruder has the capability to cover the complete extrusion spectrum.

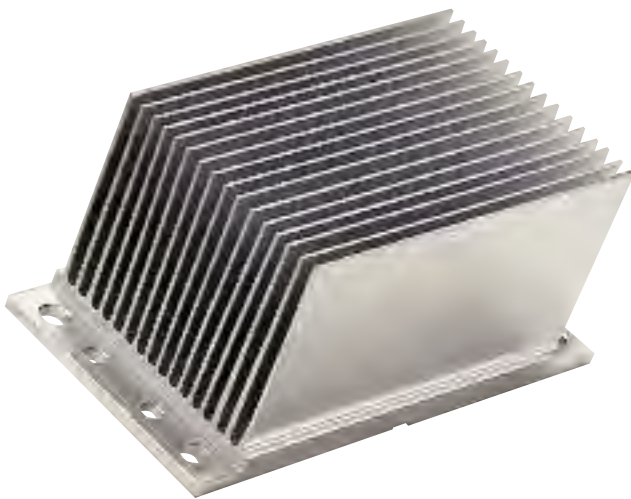
Our vendor base allows us to take advantage of each extruder's expertise to help us advise the best solution based on your structural and thermal needs. Vette cares about your overall system cost and performance. We will work hard to help you design the most cost effective, thermal solution for your product's need.



.65 H x 8.54 W x 1.66 L



2.40 H x 3.19 W x 14.65 L



1.81 H x 2.00 W x 3.72 L



1.65 H x 4.65 W x 2.00 L, high fin density, 30 fins

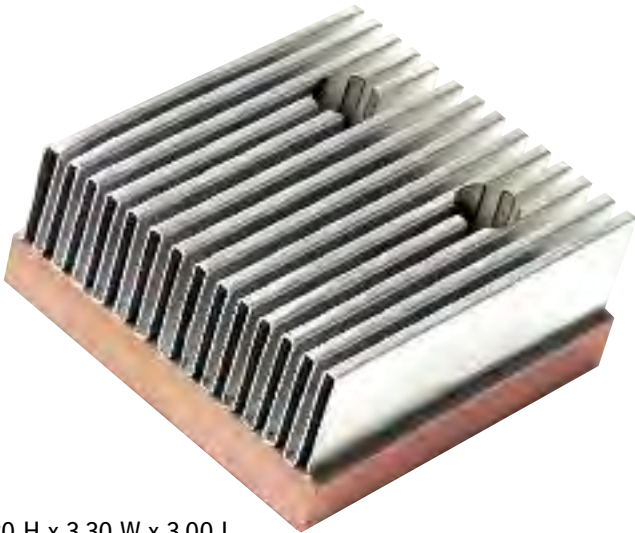


1.38 H x 14.5 W x 8.26 L, with black anodize

## **HYBRID HEATSINKS**

It has always been our goal at Vette to provide our customers with the largest variety of thermal management solutions in the industry. The mixture of copper and aluminum in the same heatsink is able to provide unique cooling packages that can offer a specific set of results.

With today's ever increasing power levels, Vette's Hybrid Heatsinks can put the performance of copper where it is needed to provide extra cooling, using aluminum in areas where less performance is needed to reduce weight and cost.



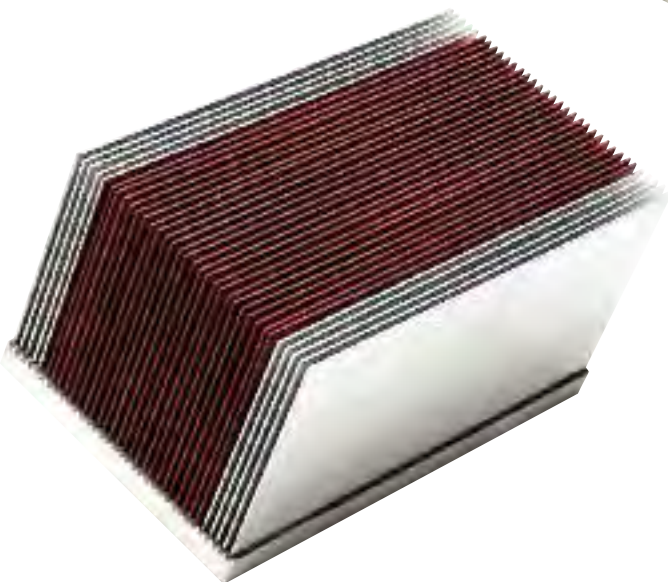
1.20 H x 3.30 W x 3.00 L



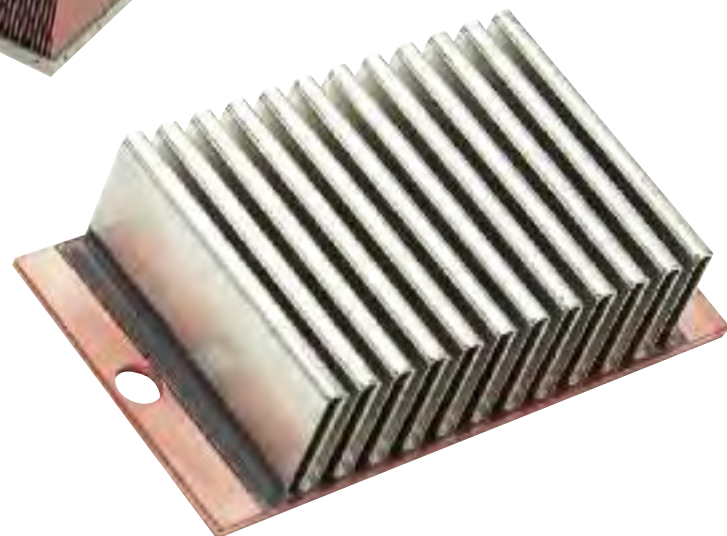
4.10 H x 12.54 W x 14.00 L



4.625 H x 21.25 W x 15.50 L



4.00 H x 5.10 W x 8.00 L



.75 H x 2.96 W x 2.35 L

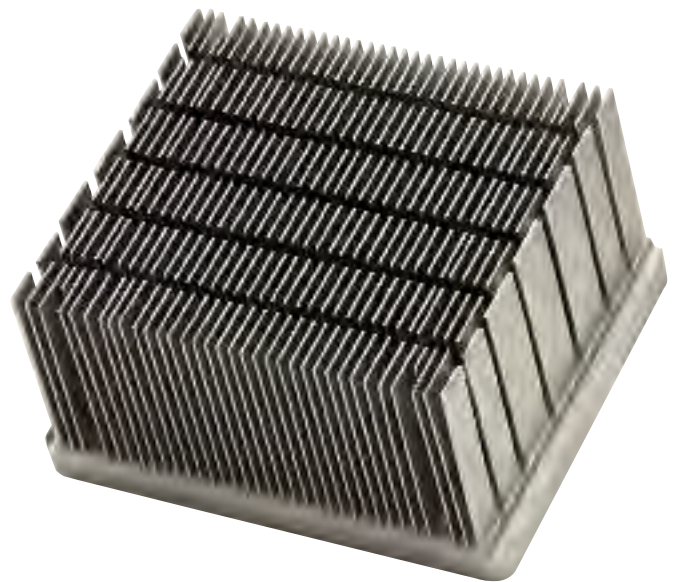
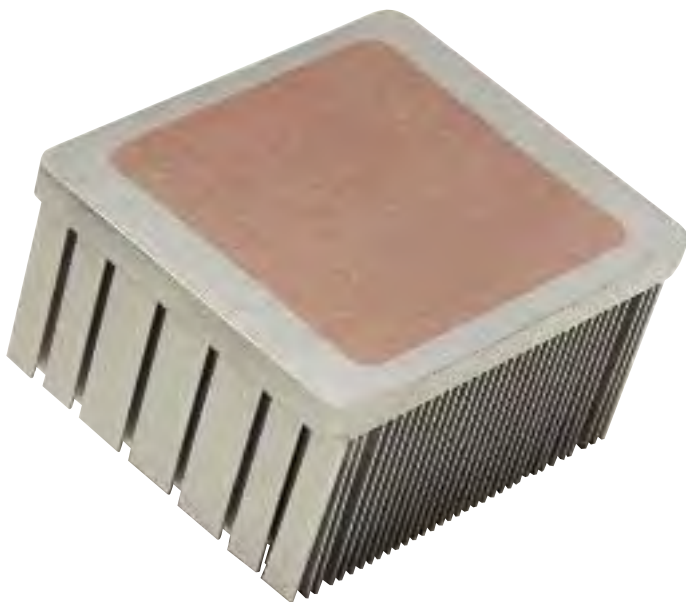
Bases and fins can be mixed and matched – copper base and aluminum fins or aluminum base and copper fins. We can use any combination of materials to give you the cooling performance you need to get the job done.

Based on Vette's proven assembly process utilizing our industry leading thermal epoxy, the materials do not come in contact with each other. There is no possibility of a galvanic reaction between the two dissimilar materials.

Let Vette help you with your next thermal solution.



2.50 H x 10.25 W x 6.50 L, with carc paint



Forged aluminum with copper insert, 1.85 H x 4.00 W x 4.00 L

## **BONDED FIN HEATSINKS**

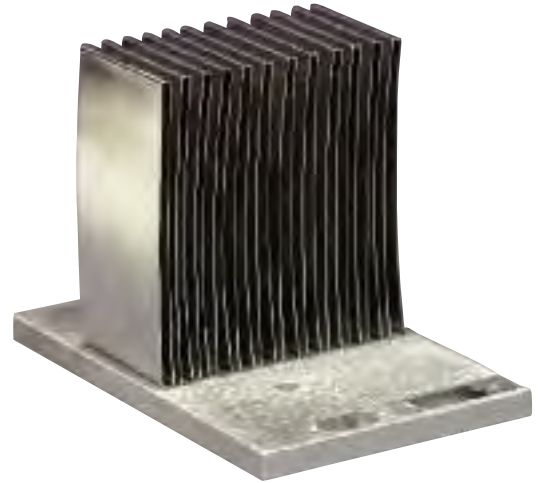
Vette offers total flexibility in the design and manufacturing of our Bonded Fin Heatsinks. Each of our products is built to the specific needs of our customer. We do not believe in the one-size-fits-all theory because seldom are two applications ever the same. With Vette you get what you need, not what the catalogue has to offer!

Aluminum Bonded Heatsinks can dissipate two to three times more heat than conventional extruded heatsinks by adding 200% to 300% to the cooling surface area. Two fin styles are available – folded fin and single fin. The fin density and fin height on both can be used in countless combinations. Vette offers an industry first! – Anodized Bonded Fin Heatsinks. Now color can be added to your assembly.

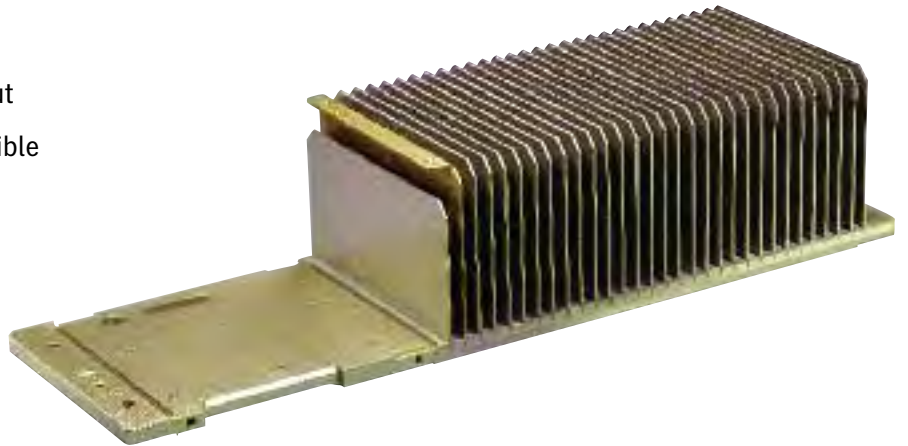
Because of our tight manufacturing standards, we have never had a fin failure of our bonded fin products in the field since 1994 when we first introduced the product line. Vette is also the only manufacturer that utilizes an independent lab to randomly test its fins for pull out force. Our goal is to provide you with the best possible value, based on your unique application.

### **Aluminum Bonded Fin**

- Folded or straight fin
- Maximum size 64" x 32"
- Standard 64 max RMS surface finish on machined mounting surface



4.00 Tall Folded Fin – an industry first!



3.70 H x 16.60 W x 5.00 L



2.00 H x 17.00 W x 12.00 L, with clear iridite & black paint

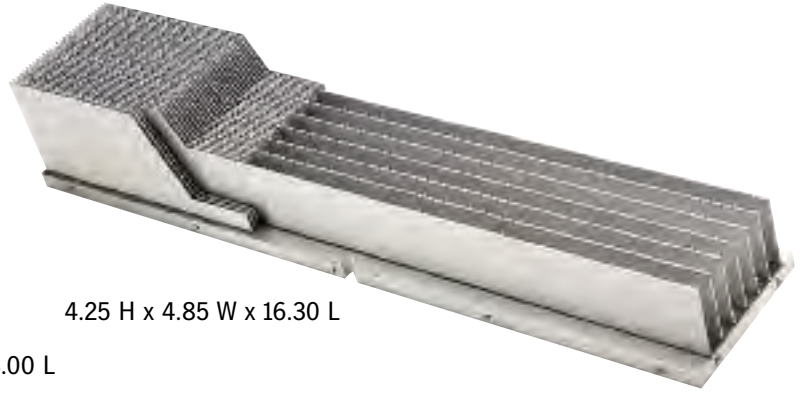


Back view of heatsink at left

# Air Cooled



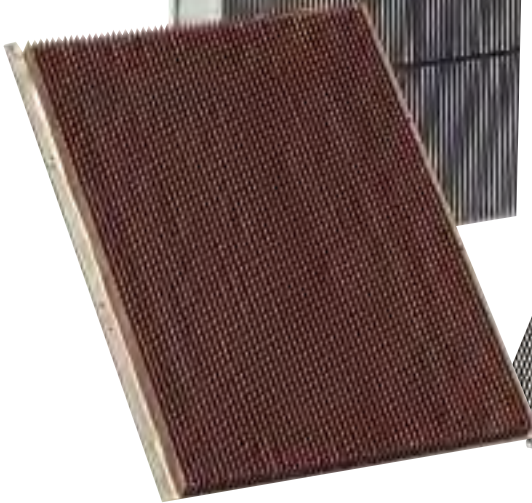
4.00 H x 15.00 W x 43.00 L



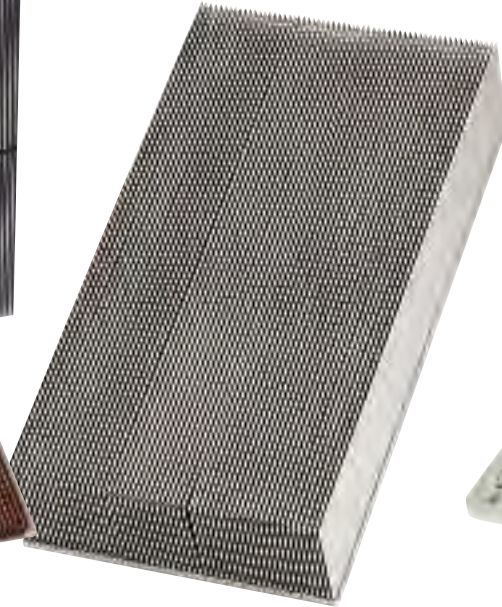
4.25 H x 4.85 W x 16.30 L



4.10 H x 12.00 W x 6.25 L



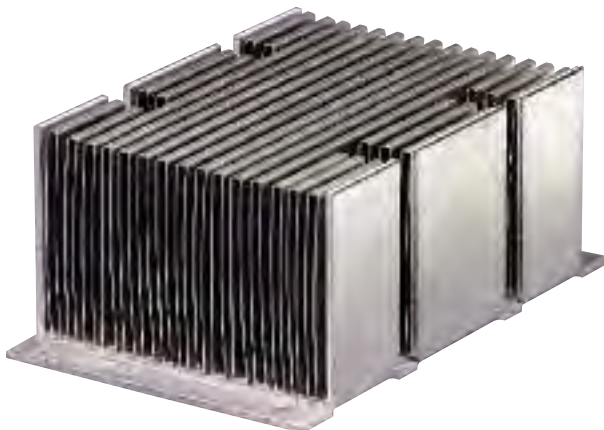
1.25 H x 16.50 W x 20.60 L



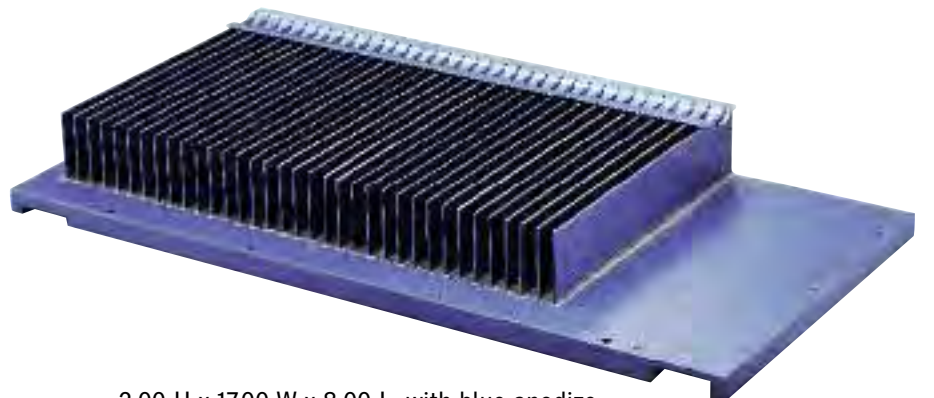
4.25 H x 12.00 W x 22.00 L



.37 H x 6.00 W x 6.25 L, nickel plate



2.00 H x 3.20 W x 5.10 L



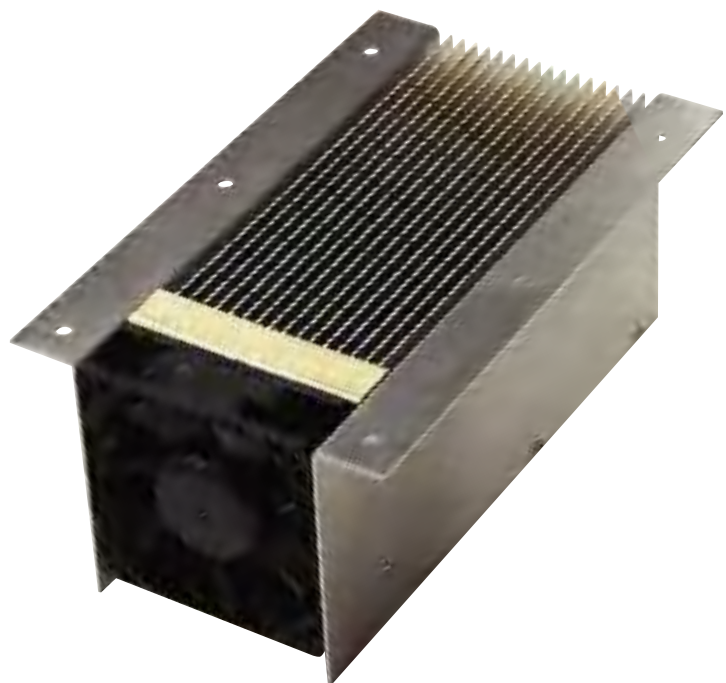
2.00 H x 17.00 W x 8.00 L, with blue anodize

### ***FORCED AIR BONDED FAN ASSEMBLIES***

Since their introduction in 1994, Vette's Bonded Heatsinks have become the standard by which all others are measured. Our industry leading quality and performance Bonded Fin Heatsinks are now available in an array of standard, off-the-shelf sizes. You just mount your fans and go or, if you would like, Vette can also provide the fan with the heatsink. Whatever your needs, check with Vette first, your number one Thermal Solutions source.



Now available in 1, 2 and 3-fan mount units.

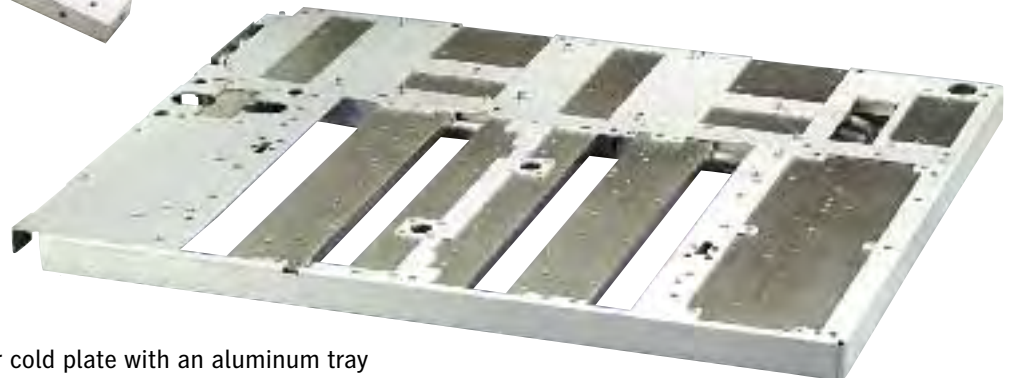


Since the 1950's, Vette has been a manufacturer of quality, cost effective mechanical components and subassemblies. As a result of our many years of expertise in manufacturing, we offer our customers numerous options that our competition cannot. Vette has the expertise to provide one-stop shopping for all your heatsink and assembly needs. Reduce your assembly time and inventory by choosing Vette.

4.58 H x 8.22 W x 16.50 L, aluminum bases, with soldered copper tubes, in an aluminum tray.



4.97 H x 12.78 W x 16.50 L.



.50 H x 16.00 W x 20.63 L, all copper cold plate with an aluminum tray

**CHASSIS:** Integration between the chassis and the heatsink is extremely critical. Air and liquid flow must be optimized to insure maximum performance. Vette is experienced at providing the heatsink and chassis as an assembled product.

**SHIELDING:**

RF shielding can be designed and incorporated into the heatsink.

**HARDWARE:**

Standoffs and studs for mounting are installed before the product is shipped. This means a reduction in inventory and labor costs for the customer.

**FINISHING:**

Vette can provide you with an extensive variety of finishes for your product. These include plating, painting, and silk screening.



## Overview

Established in 2004, Vette Corp is a global thermal management solutions provider specializing in solving thermal challenges for leading OEM's and operators of data center and telecom facilities, as well as OEM's for computer, communications and industrial electronic equipment. Vette's rack level cooling solutions substantially reduce energy costs and maximize data center capacity. Vette maintains a growing IP portfolio, with design and applications engineering in Asia and North America and high-volume manufacturing facilities on both continents.

Vette Corp complements its extensive solutions portfolio, design and manufacturing capabilities with world-class supply chain and customer service to offer clients the lowest-cost, highest-quality, end-to-end solutions available for today's complex thermal problems.

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Fax: 603-570-3481

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Fax: +886-2-7720-1166

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