



VAPOR CHAMBERS

Aluminum, Copper & Titanium vapor chambers
formed to fit applications

The ATS family of Aluminum vapor chambers is the largest and broadest set of off the shelf vapor chambers available today. From 25x25mm (1x1in) to 250x250mm (9.8x9.8in), and thicknesses of less than 1mm to 6mm to meet a wide variety of thermal management applications. Made in the USA or Asia, the vapor chambers are also available in Copper and Titanium.



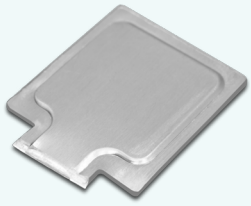
ATS Vapor Chambers
Temperature Range: 10-60 °C

Part Number	Dimensions (L x W x H, mm)	Weight (g)
ATS-VC-009-C1-R2	25.0 x 25.0 x 1.75	1.9
ATS-VC-010-C1-R2	50.0 x 50.0 x 1.75	7.7
ATS-VC-011-C1-R2	100.0 x 100.0 x 1.75	30.7
ATS-VC-012-C1-R2	150.0 x 150.0 x 1.75	69.1
ATS-VC-013-C1-R2	200.0 x 200.0 x 1.75	122.9
ATS-VC-014-C1-R2	250.0 x 250.0 x 1.75	192.0
ATS-VC-015-C1-R2	250.0 x 50.0 x 1.75	38.4
ATS-VC-016-C1-R2	250.0 x 100.0 x 1.75	76.8
ATS-VC-017-C1-R2	250.0 x 150.0 x 1.75	115.2
ATS-VC-041-C1-R0	100.0 x 30.0 x 3.0	12.7
ATS-VC-042-C1-R0	100.0 x 40.0 x 3.0	18.0
ATS-VC-043-C1-R0	150.0 x 95.0 x 3.0	75.0
ATS-VC-044-C1-R0	100.0 x 30.0 x 4.0	17.0
ATS-VC-045-C1-R0	150.0 x 46.0 x 4.0	35.5
ATS-VC-046-C1-R0	200.0 x 80.0 x 4.0	90.00
ATS-VC-047-C1-R0	200.0 x 90.0 x 4.0	118.0
ATS-VC-048-C1-R0	250.0 x 104.0 x 3.0	117.0
ATS-VC-049-C1-R0	250.0 x 120.0 x 4.0	196.0
ATS-VC-050-C1-R0	250.0 x 234.0 x 5.0	44.1
ATS-VC-051-C1-R0	250.0 x 55.0 x 6.0	112.5

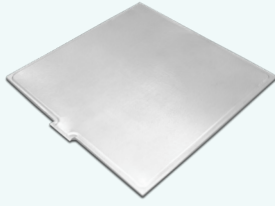
ATS STANDARD AI VC

- » **Wick Type**
Mesh or Groove
- » **Working Fluid**
Acetone
- » **Material**
Aluminum
- » **Minimum/Maximum Temp.**
10 to 60 °C (50 to 140 °F)
- » **No External Devices**
No power supply, controller or valves needed to control the fluid flow.
- » **No Moving Parts**
Capillary and phase change create the forces required for fluid motion.

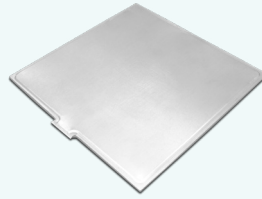




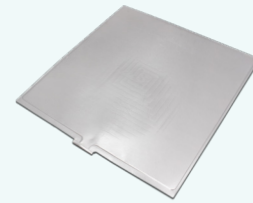
ATS-VC-009-C1-R2
25x25x1.75mm



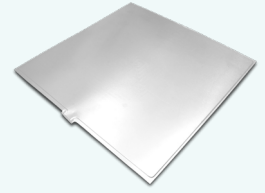
ATS-VC-010-C1-R2
50x50x1.75mm



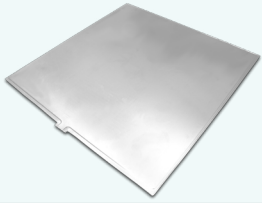
ATS-VC-011-C1-R2
100x100x1.75mm



ATS-VC-012-C1-R2
150x150x1.75mm



ATS-VC-013-C1-R2
200x200x1.75mm



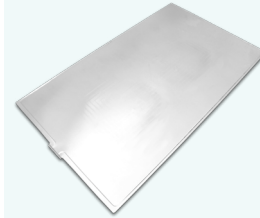
ATS-VC-014-C1-R2
250x250x1.75mm



ATS-VC-015-C1-R2
250x50x1.75mm



ATS-VC-016-C1-R2
250x100x1.75mm



ATS-VC-017-C1-R2
250x150x1.75mm



ATS-VC-041-C1-R0
100x30x3mm



ATS-VC-042-C1-R0
100x40x3mm



ATS-VC-043-C1-R0
150x95x3mm



ATS-VC-044-C1-R0
100x30x4mm



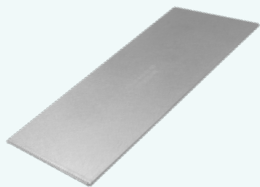
ATS-VC-045-C1-R0
150x46x4mm



ATS-VC-046-C1-R0
200x80x4mm



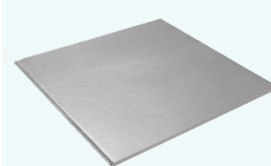
ATS-VC-047-C1-R0
200x90x4mm



ATS-VC-048-C1-R0
250x104x3mm



ATS-VC-049-C1-R0
250x120x4mm



ATS-VC-050-C1-R0
250x234x5mm

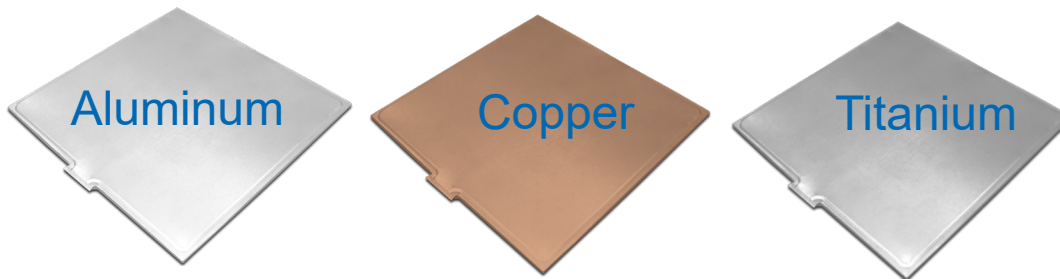


ATS-VC-051-C1-R0
250x55x6mm

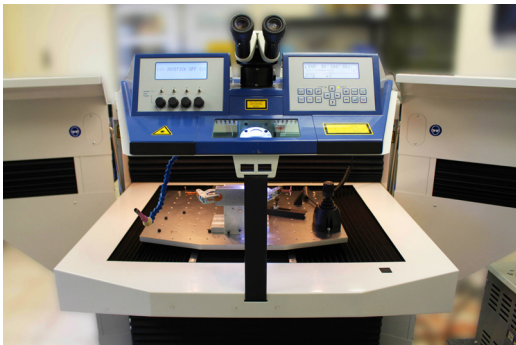
CUSTOMIZATION

Custom versions in aluminum, copper, and titanium

ATS has extensive capabilities in designing vapor chambers and heat pipes made of Copper, Aluminum, and Titanium. The design tools are developed based on fabrication capabilities and limitations.



ATS Fabrication Facility for Vapor Chambers and Heat Pipes



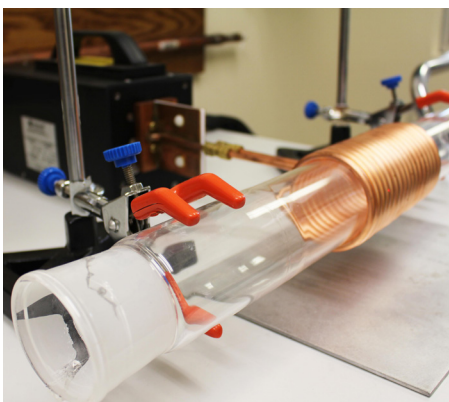
*CNC laser welder for rapid
microbead welding*



*Manual laser welder for spot
welding and weld repair*



*Heat Pipe and Vapor Chamber
Fill and Seal Center*



*High Temperature Induction
Heating Center*

CUSTOM VAPOR CHAMBERS

- » **Wick Type**
Mesh, Pillar, Other
- » **Working Fluid**
Acetone, Water, Other
- » **Material**
Aluminum, Copper, Titanium
- » **Minimum/Maximum Temp.**
10-60 °C (50-140 °F)
- » **Capabilities**

ATS has extensive capabilities in designing vapor chambers and heat pipes made of Aluminum, Copper, Titanium and Kapton. The design tools are developed based on fabrication capabilities and limitations.

» Testing Facilities

ATS has extensive thermal and mechanical testing capabilities of vapor chamber and heat pipes.

» Prototypes and Small Volumes

The ATS production facility in Norwood MA, USA, is capable of prototypes and low volume production of custom vapor chambers and heat pipes.

» High Volume Manufacturing

ATS has the capability to fabricate large (450x450mm) and small (5x5mm) vapor chambers at its facility in Norwood MA, USA.