Image for illustration purposes only



IGBT Cold Plates

High Performance

ATS-CP-1004

ATS IGBT cold plates have unmatched thermal performance because of their mini-channel fin design. The ATS-CP-1004 cold plate, at a flow rate of 4 L/min, can transfer 1kW of heat at 5.9°C temperature difference between the cold plate base and inlet fluid temperature. If the coolant has particles, a #60 filter or finer is recommended to remove possible particles in the liquid.



- » 1/4 NPT threaded input and output
- » More than 30% improvement in thermal performance compared to industry standard
- » Low pressure drop
- Compatible with Semikron SKIM® 93 and other IGBTs or high power devices
- Lightweight for ease of transportation
- » Provides uniform cold plate surface temperature
- » Maximum pressure: 60 psi

DIMENSIONS (L X W X H)

162 X 172 X 20 mm (6.4 X 6.8 X 0.8")

INLET/OUTPUT PORTS 1/4 - 18 NPT

MATERIALS

ALUMINUM, UNFINISHED

WEIGHT

1,280g

ATS COLD PLATES

- » Innovative Technology Superior heat transfer, flexible design platform
- » Compact Design
 Designed to fit standard
 IGBT and other power
 electronics applications
- » Easy Connections Industry standard threaded hole sizes allows for hassel-free connection options
- » Safe & Reliable Leak Free (100% tested:100 psi)
- » Custom Options

Choose from various options, i.e; fitting types, material types, device mounting and more. Contact ATS for additional information

» Customization Available! ATS will customize any

of the cold plates to fit into your application

IGBT COMPATIBILITY

- » Semikron SKIM® 93
- Other IGBTs or high power devices



ADDITIONAL COMPONENTS DEPLOYED IN LIQUID COOLING LOOPS

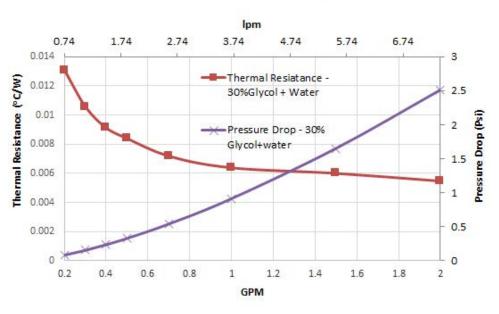


ATS has the products needed to design a complete liquid cooling loop: **Cold Plates** to transfer and remove the heat from the source, **Heat Exchangers** to transfer heat from the liquid to the air with or without a fan, and **Chillers** to circulate and condition the fluid in the system. In addition, ATS offers **Flow Meters** to instantaneously measure the volumetric flow rate of the fluid in the system and **Leak Detectors** to notify users of any leaks in the system.



PERFORMANCE CURVES

Thermal Resistance And Pressure Drop ATS-CP-1004



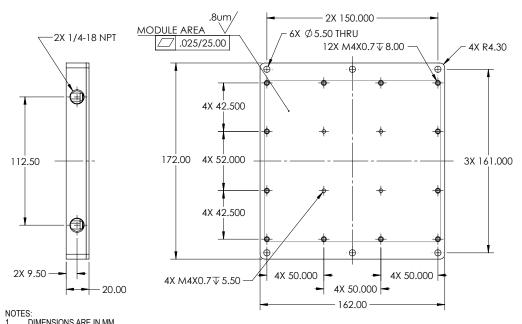
ATS Cold Plate Family			
Part Number	Dimensions* (L x W x H)	Flow Rate (L/min)	ΔT @ 1kW
ATS-CP-1000	202 x 130 x 20	4 L/min	5.50°C
ATS-CP-1001	198 x 147 x 20	4 L/min	5.00°C
ATS-CP-1002	162 x 136 x20	4 L/min	7.00°C
ATS-CP-1003	162 x 147 x 20	4 L/min	6.80°C
ATS-CP-1004	162 x 172 x 20	4 L/min	5.90°C

Flow rate (gallon/min)**	R (°C/W)	DeltaP (psi)
2	0.0055	2.5
1	0.0064	0.91
0.5	0.0084	0.33
0.2	0.013	0.09

^{*} All Dimensions in mm

MECHANICAL SPECIFICATIONS

(all dimensions in mm)



NOTES.

1. DIMENSIONS ARE IN MM.
2. TOLERANCES: X.XX +/- 0.25 MM, X.XXX +/- 0.125 MM.
3. THIRD ANGLE PROJECTION.

For further technical information, please contact Advanced Thermal Solutions, Inc. by phone: **1-781-769-2800**, email **ats-hq@qats.com** or visit **www.qats.com**.

^{**} Note: To convert to I/min, multiply by 3.7

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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