

CRYOQOOL

CPU Cooler for Servers



Description: Designed for cooling dense 2U applications using CPUs that fit the Intel™ LGA2011 square, LGA2066 (Socket R), and LGA 1366 sockets

Heat Sink Type: Heat Sink with High-Performance Fans

Heat Sink Attachment: Hardware Kit - ATS-HK349-R1

Features & Benefits

- « Ideal for 2U applications where space and airflow are restricted
- « Designed for CPUs that fit the Intel™ LGA2011 square, LGA2066 (Socket R), and LGA 1366 sockets
- « Mechanical attachment is PEM, screws and spring – for other types of attachments contact ATS
- « Provided with Chomerics T670 thermal grease
- « Hardware provides 21 psi of mounting pressure when installed on component in socket LGA2011
- « PWM enabled fans: Voltage 12VDC (10.8 min – 12.6 max), Current 1.52A per fan
- « Provides at least 50% improvement over comparable products on the market
- « To apply this heat sink to other high power devices and processors contact ATS
- « ATS cryoQOOL heat sink technology is patent pending



*Images for illustration purposes only.



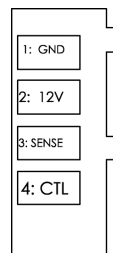
Product Details

DIMENSION A (LENGTH, mm)	DIMENSION B (WIDTH, mm)	DIMENSION C (HEIGHT, mm)	DIMENSION D (MOUNTING HOLE WIDTH, mm)	DIMENSION E (MOUNTING HOLE LENGTH, mm)	Fin Material	Finish	Weight (g)	HARDWARE KIT	TIM	LEAD WIRE PIN OUT
137	97.6	47.8	80	80	Copper	None	1,610	ATS-HK349-R1	T670 Thermal Grease	4 Wire

Thermal Performance ⁽³⁾

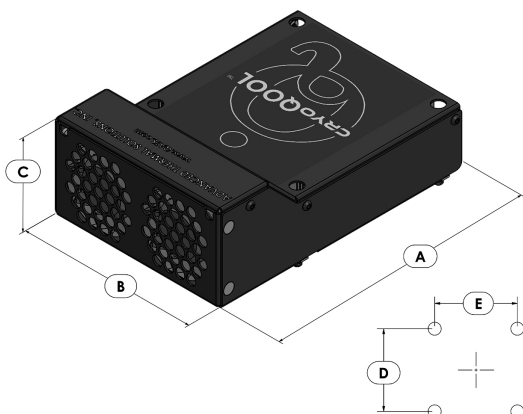
FAN RATED VOLTAGE (Vdc)	FAN OPERATING VOLTAGE RANGE (Vdc)	RATED SPEED (RPM)	RATED INPUT POWER (W)	RATED AIRFLOW (CFM)	NOISE LEVEL (dB)	AIR PRESSURE (mmH ₂ O)	R (°C/W)	MAX TDP (W) ⁽²⁾	FAN LIFE EXPECTANCY (L ₁₀) HOURS
12	10.8 ~ 12.6	25,000	36.6	58.6	65	112	0.12	267	40,000 at 60°

FAN CONNECTOR



NOTES:

1. Thermal performance data is provided for reference only. Actual performance may vary by application.
2. Thermal resistance data are for 40 x 40mm component.
3. Thermal performance is based on both fans running at 100% PWM duty cycle
4. The fan connector can be mated to a system in the following ways: via a computer motherboard's included 4-pin header, to a standard 4-pin fan header such as the Molex 0470531000 or a standard 3-pin fan header. If a 3-pin header is used, the speed control option cannot be accessed.
5. Lead wires: Pin 1-Black (-), Pin 2-Red (+12V), Pin 3-Yellow (Tach), Pin 4-Blue (PWM)
6. Max TDP (thermal design power) – maximum amount of heat generated by component
7. ATS reserves the right to update or change its products without notice to improve the design or performance
8. RoHS-6 and REACH compliant



ATS ADVANCED THERMAL SOLUTIONS, INC.
Innovations in Thermal Management®

For further technical information, please contact Advanced Thermal Solutions, Inc.

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