



# J12

3U Active Air Cooler

**PRODUCT SPECIFICATIONS**

Specification Version: 06/16/2023

*(Specifications are subject to change without notice)*

## Model Number: J12

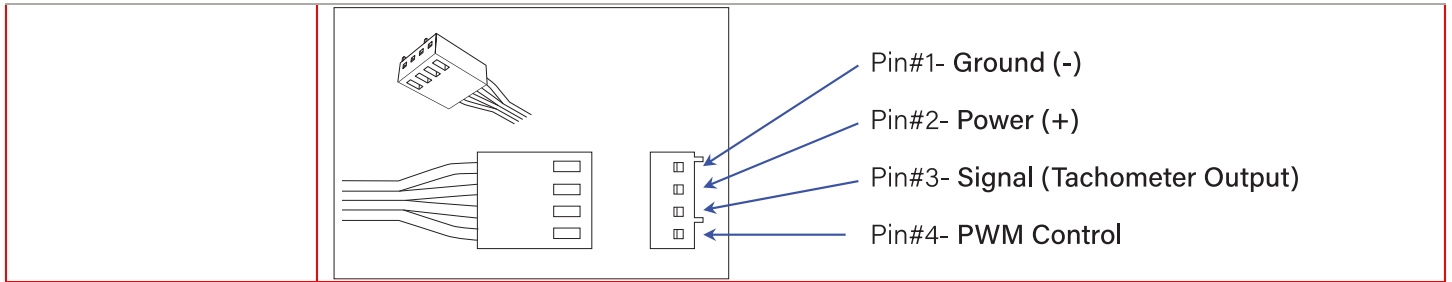
- Recommend for AMD® CPU as following
  - AMD® Genoa® Processor Family, Socket SP5
- Active Air Cooler for 3U Server and Up

## Overall Specification

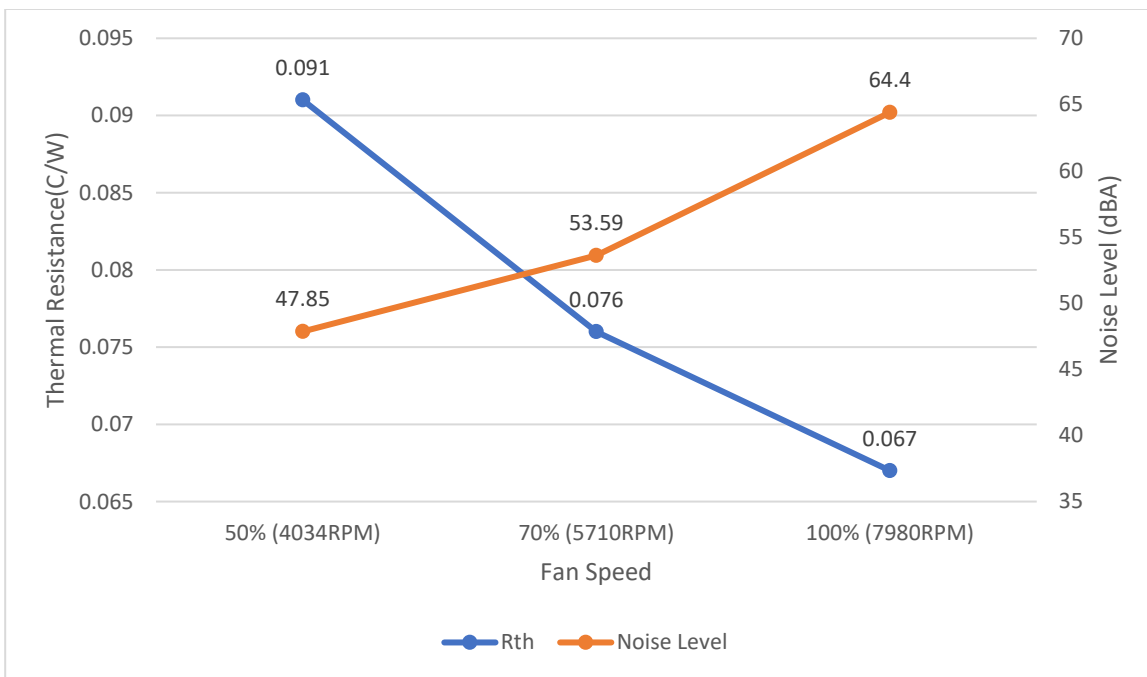
Dimension	118.0 x 92.4 x 105.0 mm
Weight	798g
Material	Aluminum Fin + Heat pipes + Copper Heat Spreader Embedded Aluminum Heatsink Base
Thermal Grease	Shin-Etsu 7762 or Equivalent
TDP	Up to 320 Watts at 30°C ambient temperature

## Cooling Fan Specification

Model Number	DF128038BX-E
Dimension	80 x 80 x 38 mm
Bearing	Double Ball
Rated Voltage	DC 12V
Rated Speed	At Duty Cycle 0~20%: 2400± 200 RPM At Duty Cycle 50%: 4800± 10% RPM At Duty Cycle 100%: 8000±10% RPM
Input Power	At Duty Cycle 0~20%: 1.2 W At Duty Cycle 50%: 5.52 W At Duty Cycle 100%: 24.72 W
Maximum Airflow	At Duty Cycle 0~20%: 32.52 CFM At Duty Cycle 50%: 67.24 CFM At Duty Cycle 100%: 115.61 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 3.45 mm-H2O At Duty Cycle 50%: 13.6 mm-H2O At Duty Cycle 100%: 38.3 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 25.63 dBA At Duty Cycle 50%: 47.85 dBA At Duty Cycle 100%: 64.40 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

**J12 | Socket SP5**


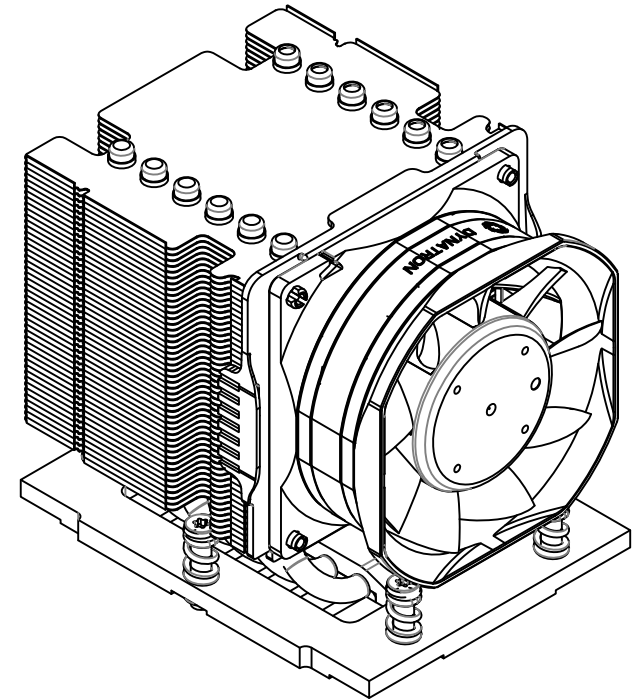
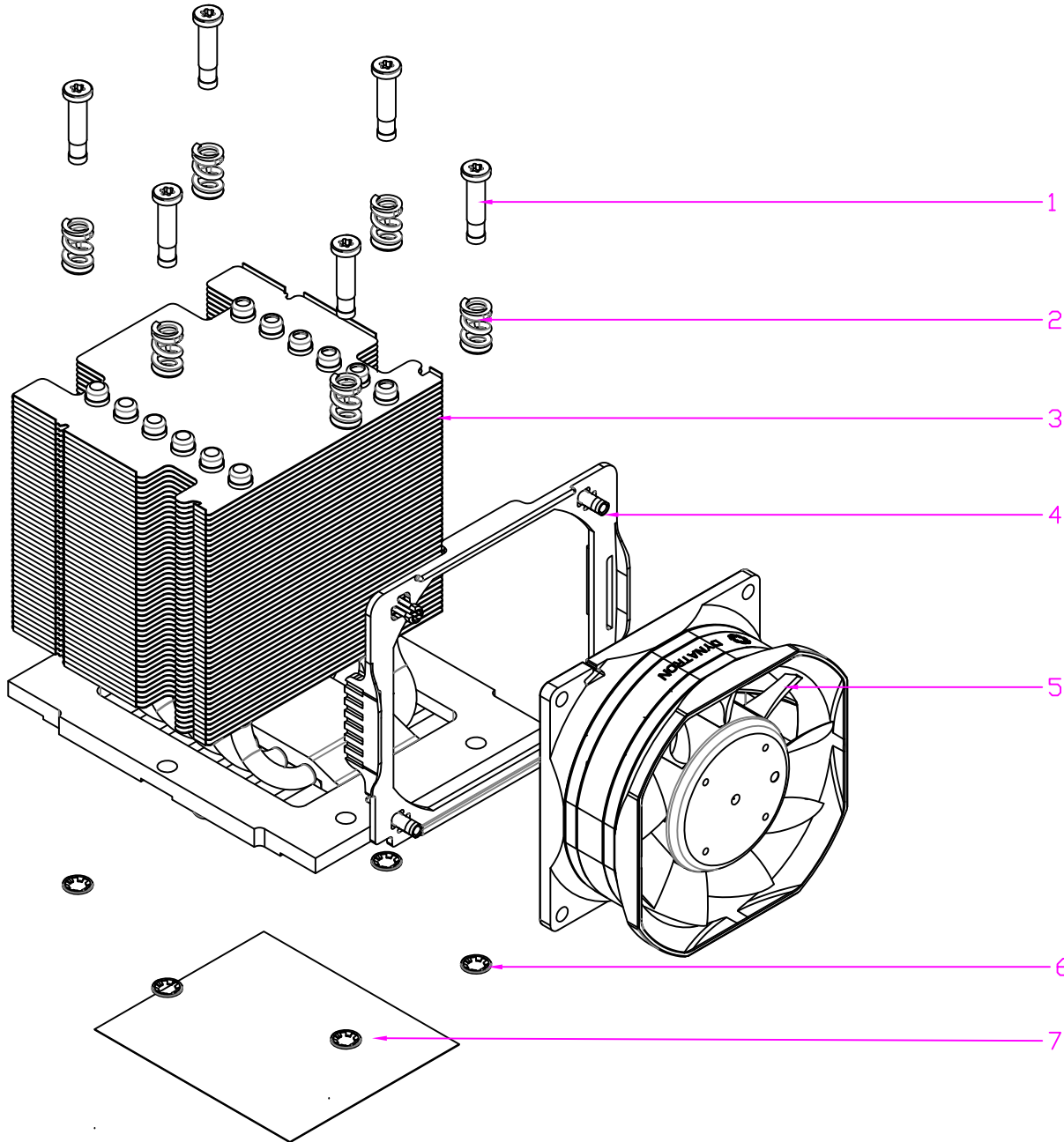
### Performance Chart: Active Cooler J12 Thermal Resistance Thermal Resistance vs. Fan Speed (Duty Cycle and RPM)




**CONFIDENTIAL DOCUMENT**

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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	03/11/22
0.1	FAN SPEC. UPDATE	Engr.	04/28/22



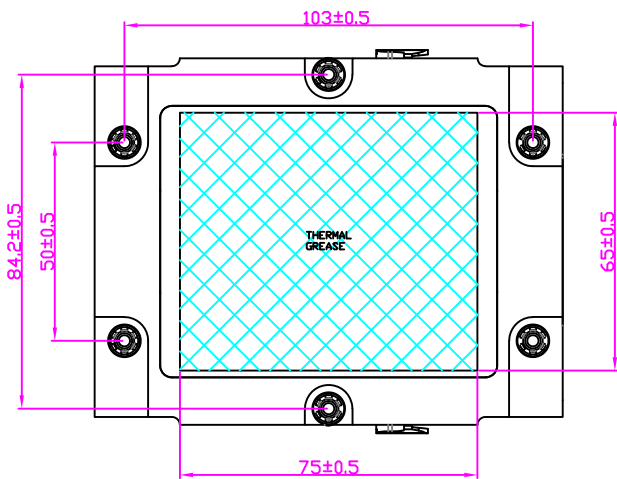
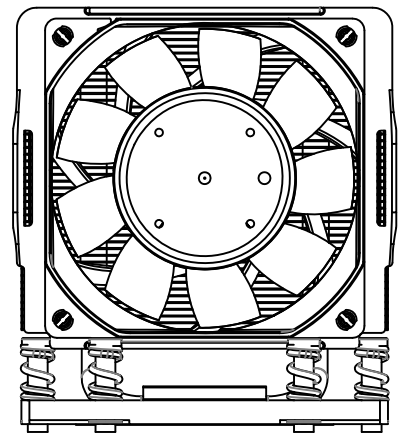
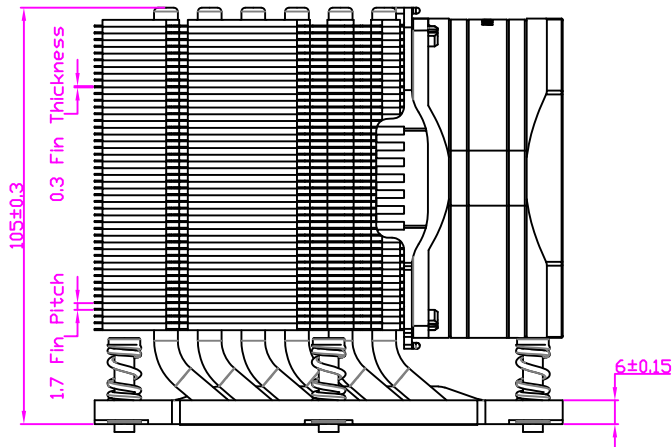
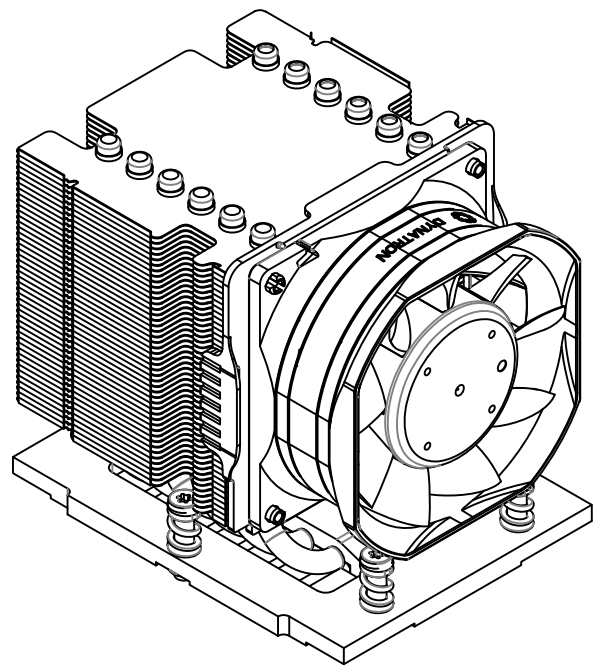
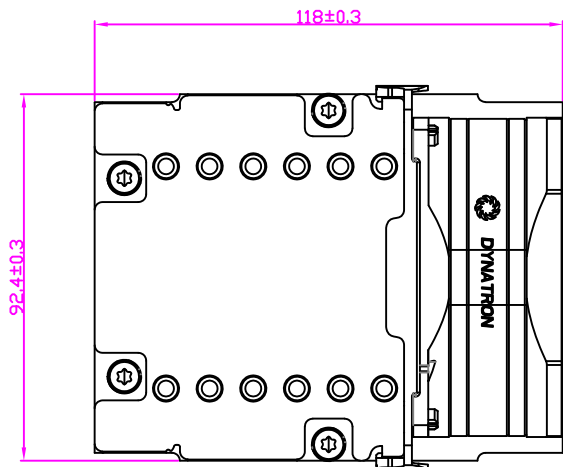
7	THERMAL GREASE	SHIN-ETSU 7762	N/A
6	C-RING	STEEL	6
5	FAN	DF128038BX-E	1
4	FAN RETENTION BRACKET	PLASTIC	1
3	HEATSINK	ALUMINUM FINS + HEAT PIPES + COPPER HEAT SPREADER EMBEDDED ALUMINUM BASE	1
2	SPRING	STEEL	6
1	SCREW, HEATSINK	STEEL	6
ITEM #	DESCRIPTION	MATERIAL	QTY.

DATE	NAME	 DYNATRON CORPORATION		
04/28/22	Engr.			
CHECKED	04/28/22	Engr.	TITLE: 3U Air Cooler J12 BOM & Exploded Assembly Drawing	
ENG. APPR.				
MFG. APPR.				
QA				
COMMENTS			DWG. No: DYN-EP-J12	REV 0.1

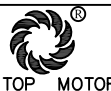
**NOTES:**

1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

REV#	DESCRIPTION	CHECKER	DATE
00	INITIAL RELEASE	Engr.	02/12/22
01	FAN SPEC. UPDATE	Engr.	04/28/22



	NAME	DATE
DRAWN BY	ENGR	04/28/2022
CHECKED BY	ENGR	04/28/2022
ENG. APPROVED		
MFG. APPROVED	-	-



**DYNATRON CORPORATION**

TITLE: 3U Air Cooler J12  
Overall Dimension Drawing

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VIEW		DWG. No:	REV.
UNITS	MM	DYN-BD-J12	0.1

## Publication History:

06/16/2023: Maximum Supported TDP update

08/01/2022: Thermal Performance Chart Update

07/25/2022: Thermal Performance Chart Update

04/28/2022: Fan Spec. Update

03/11/2022: Initial Release

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