



# A56

3U Active Air Cooler

**PRODUCT SPECIFICATIONS**

7/25/24

## Model Number: A56

- AMD® Ryzen Processor, Socket AM4 / AM5
- Active Cooler for 3U Server

## Overall Specification

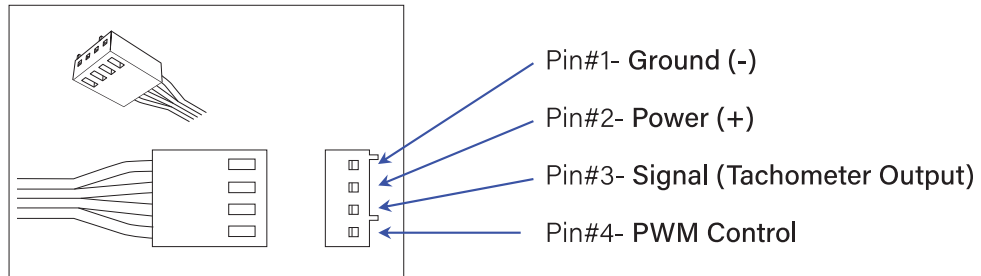
Dimension	107.5 x 78 x 110 mm
Weight	600 g
Material	Aluminum Stacked Fin with Heat Pipes directly contact CPU
Fan	8038 Side-Blow Fan with PWM Function
Mounting Method	Convenient Heat Sink Screw Captive Mounting
Thermal Grease	Shin-Etsu X23-8079-2 pre-printed
TDP	Support CPU Power over 170 Watts Heat Dissipation @28C ambient temperature

## Fan Specification

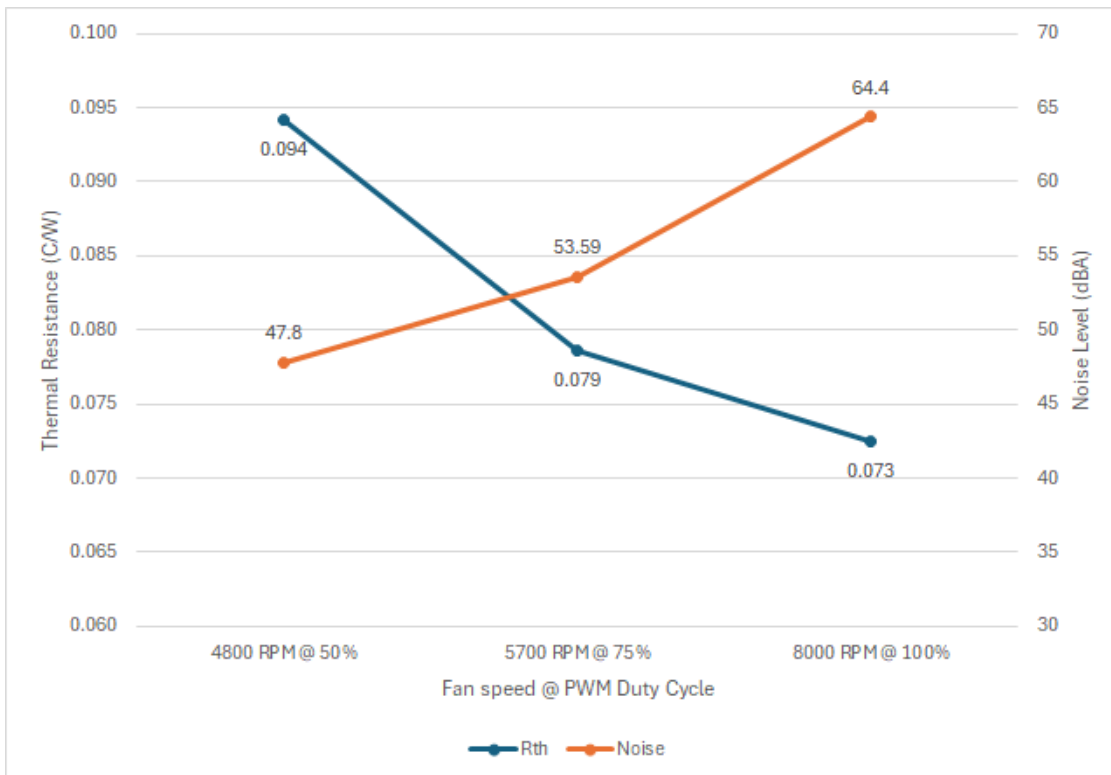
Model Number	DF128038BX - PWMG
Dimension	80 x 80 x 38 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2400 ± 10% RPM At Duty Cycle 50%: 4800 ± 10% RPM At Duty Cycle 100%: 8000 RPM Min.
Input Power	At Duty Cycle 0~20%: 1.2 W At Duty Cycle 50%: 5.52 W At Duty Cycle 100%: 24.72 W
Maximum Airflow	At Duty Cycle 0~20%: 35.52 CFM At Duty Cycle 50%: 67.24 CFM At Duty Cycle 100%: 115.61 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 1.39 mm-H2O At Duty Cycle 50%: 5.97 mm-H2O At Duty Cycle 100%: 34.06 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 25.63 dBA At Duty Cycle 50%: 47.85 dBA At Duty Cycle 100%: 64.4 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

## A56 | Socket AM4 / AM5

Lead Wire Pin Out Diagram :



## Performance Chart: Active Cooler A56 Thermal Resistance vs. Fan Speed (at Specific PWM Duty Cycle)



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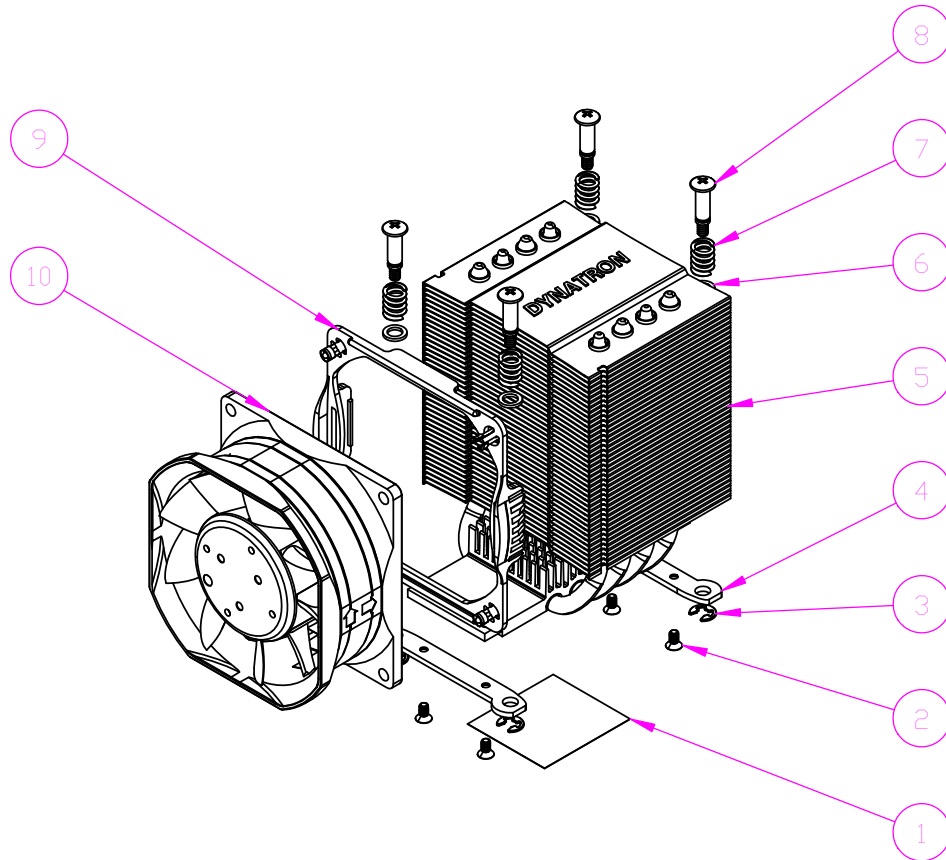
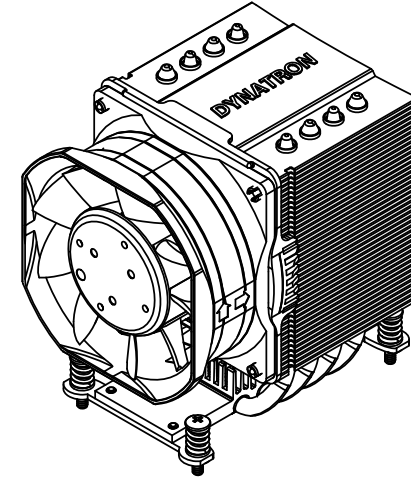
# CONFIDENTIAL DOCUMENT

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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JUN	01/02/23

B


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10	FAN , DF128038BX-PWM, 8000RPM	PLASTIC	1
9	FAN BRACKET	PLASTIC	1
8	SCREW, RETENTION	STEEL	4
7	SPRING	STEEL	4
6	WASHER	STEEL	4
5	HEATSINK	AL BASE, AL FINS, CU HEAT PIPES	1
4	RETENTION	STEEL	2
3	C-CLIP	STEEL	4
2	SCREW, HEATSINK	STEEL	4
1	THERMAL GREASE	SHIN-ETSU X23-8079-2	N/A
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 <b>DYNATRON CORPORATION</b> <small>TOP MOTOR</small>
DRAWN	1/5/2024	JUN	
CHECKED	1/5/2024	JUN	
ENG.APPR.			
MFG.APPR.			
COMMENTS:			<b>TITLE:</b> 3U COOLER A56 BOM & exploded Assembly Drawing
			<b>DWG. NO.</b> DYN-EP-A56
			<b>REV</b> 0.0

NOTES:  
THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

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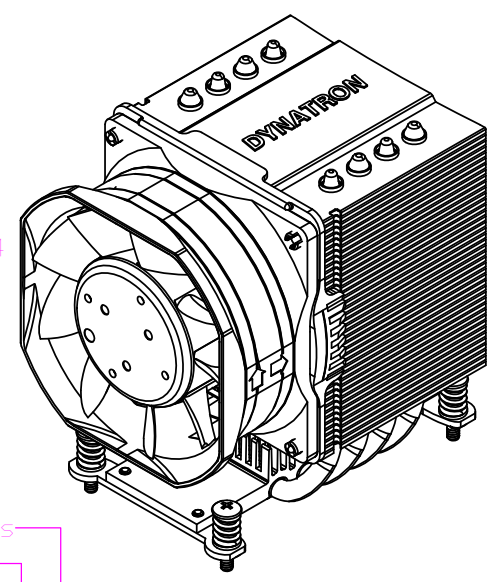
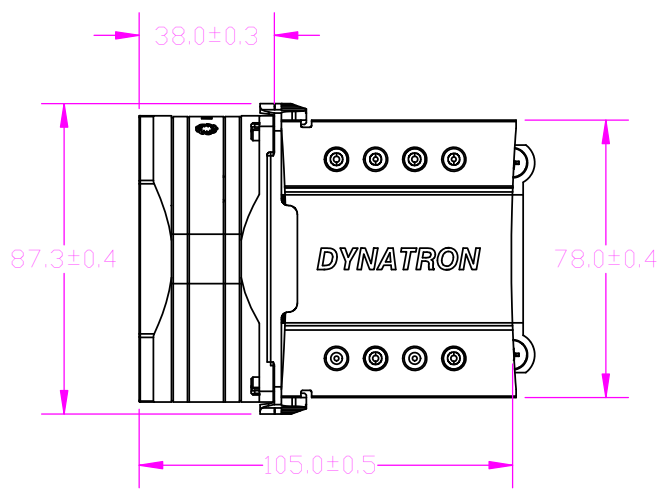
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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JUN	01/02/24

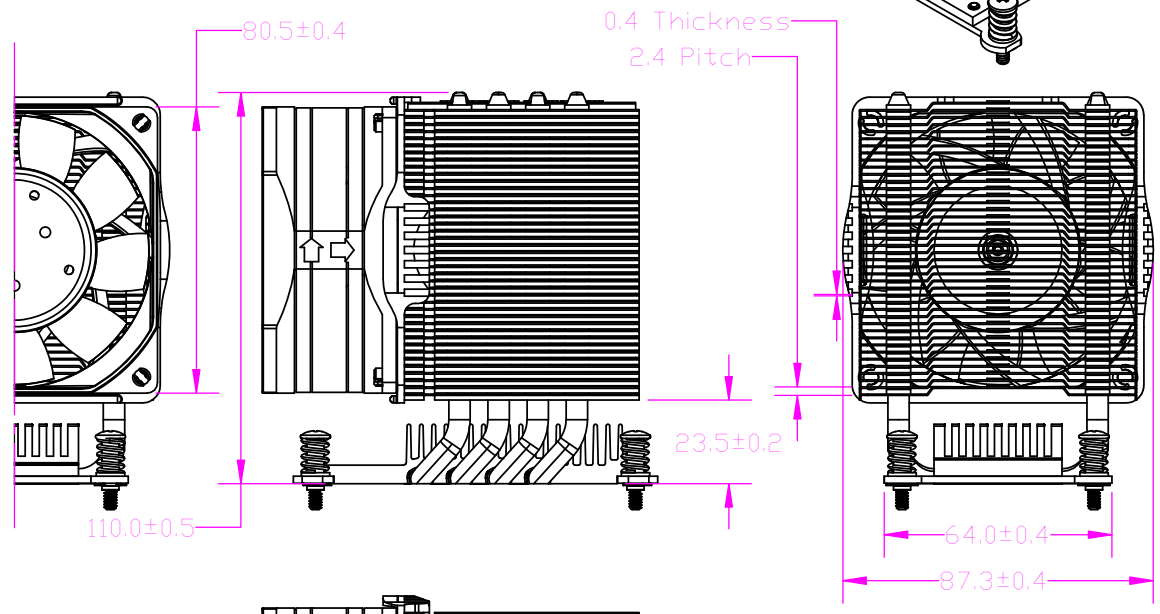
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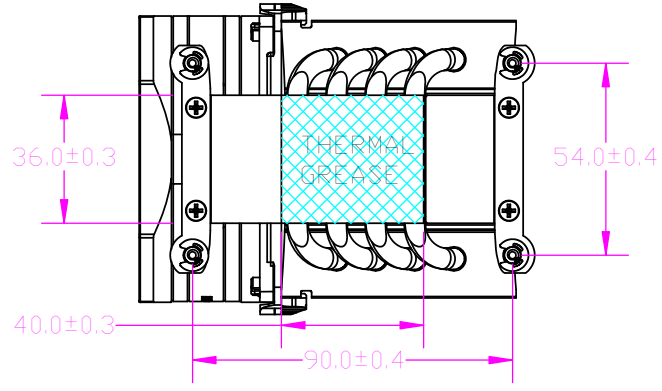


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	NAME	DATE
DRAWN BY	JUN	1/5/2024
CHECKED BY	JUN	1/5/2024
ENG. APPROVED		
MFG. APPROVED		


**DYNATRON CORPORATION**  
 TOP MOTOR  
 TITLE: 3U AIR COOLER A56  
 OVERALL DIMENSION DRAWING

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VIEW		DWG. No:	REV.
UNITS	MM	DYN-BD-A56	0.0

DWG. No:	REV.
DYN-BD-A56	0.0

DWG. No:	REV.
DYN-BD-A56	0.0

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