DYNATRON

W1

2U Active/Passive Air Cooler

PRODUCT SPECIFICATIONS

Speficiation Version: 05/07/2024

(Specifications are subject to change without notice)

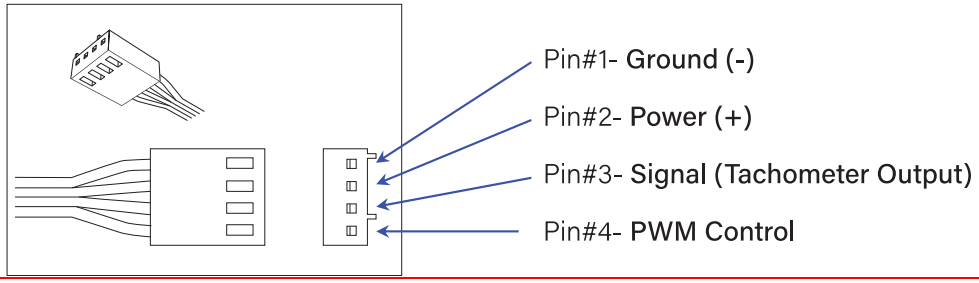
Model Number: W1

- Recommend for LGA 4926 Processor
- Switchable Active/Passive Air Cooler for 2U Server and Up

Overall Specification

Dimension (Active Mode)	141.1 x 84.0 x 72.0 mm
Dimension (Passive Mode)	116.0 x 84.0 x 72.0 mm
Weight (Active Mode)	612g ± 10g
Weight (Passive Mode)	512g ± 10g
Material	Aluminum + Copper Heatsink Base + Heatpipe + Aluminum Fins
Thermal Grease	Shin-Etsu X23-8079-2 Pre-Printed
TDP (Active Mode)	Fully Support 250W at 38℃ ambient temperature
TDP (Passive Mode)	Fully Support 250W at 42℃ Ambient Temperature and 40CFM

Cooling Fan Specification

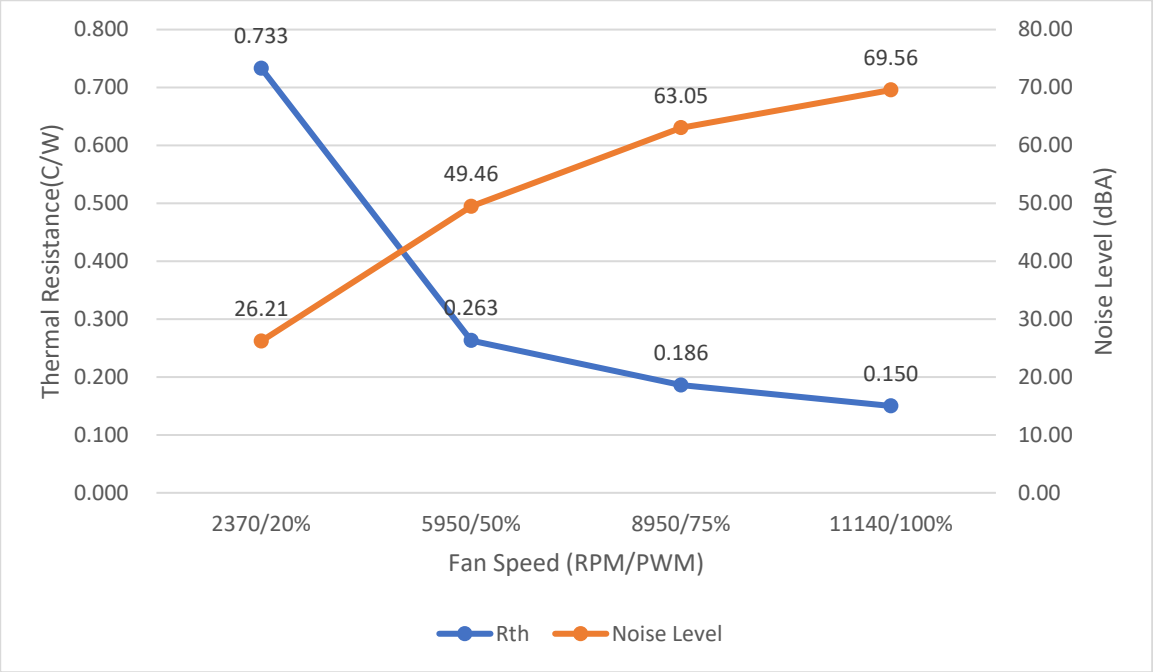
Model Number	DF126025BU - PWMH
Dimension	60 x 60 x 25 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2300 ± 10% RPM At Duty Cycle 50%: 5400 ± 10% RPM At Duty Cycle 100%: 11000 ± 10% RPM
Input Power	At Duty Cycle 0~20%: 0.84 W At Duty Cycle 50%: 2.76 W At Duty Cycle 100%: 18.0 W
Maximum Airflow	At Duty Cycle 0~20%: 11.91 CFM At Duty Cycle 50%: 28.38 CFM At Duty Cycle 100%: 58.31 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 1.48 mm-H2O At Duty Cycle 50%: 7.54 mm-H2O At Duty Cycle 100%: 28.8 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 25.8 dBA At Duty Cycle 50%: 44.4 dBA At Duty Cycle 100%: 59.8 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM) 

Performance Chart: Passive Cooler W1 Thermal Resistance

Active Mode:

Thermal Resistance vs. Fan Speed

(Pending Real Sample Measurement)

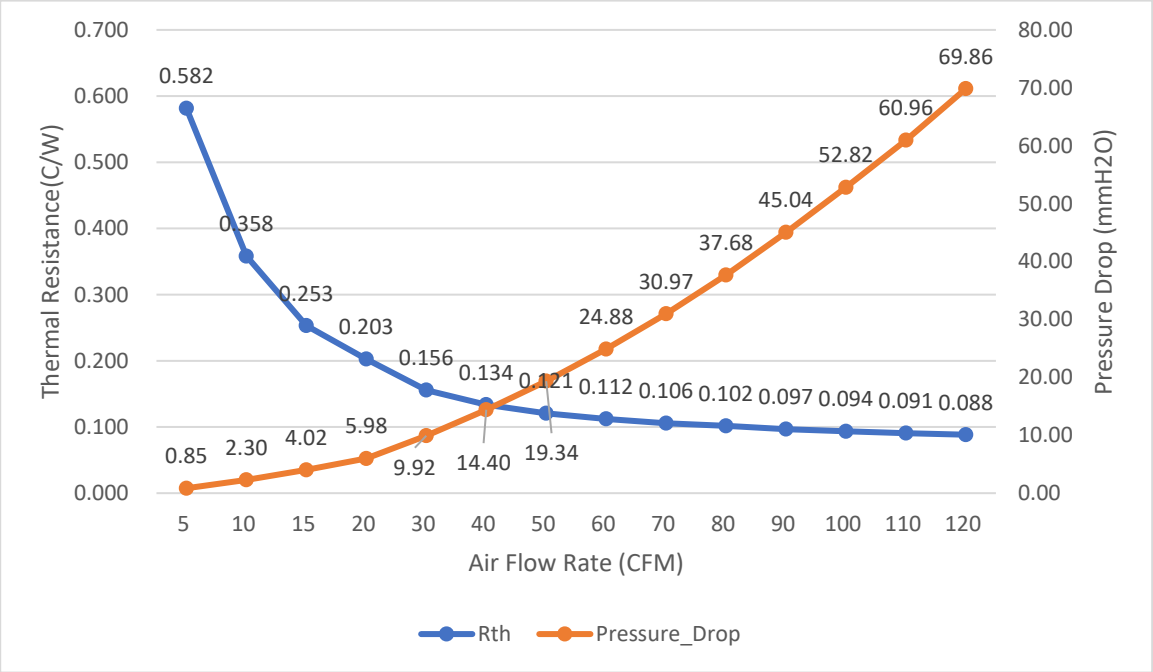


Performance Chart: Passive Cooler W1 Thermal Resistance

Passive Mode:

Thermal Resistance vs. Air Flow Rate

(Pending Real Sample Measurement)



CONFIDENTIAL DOCUMENT

REV#	DESCRIPTION	CHECKER	DATE
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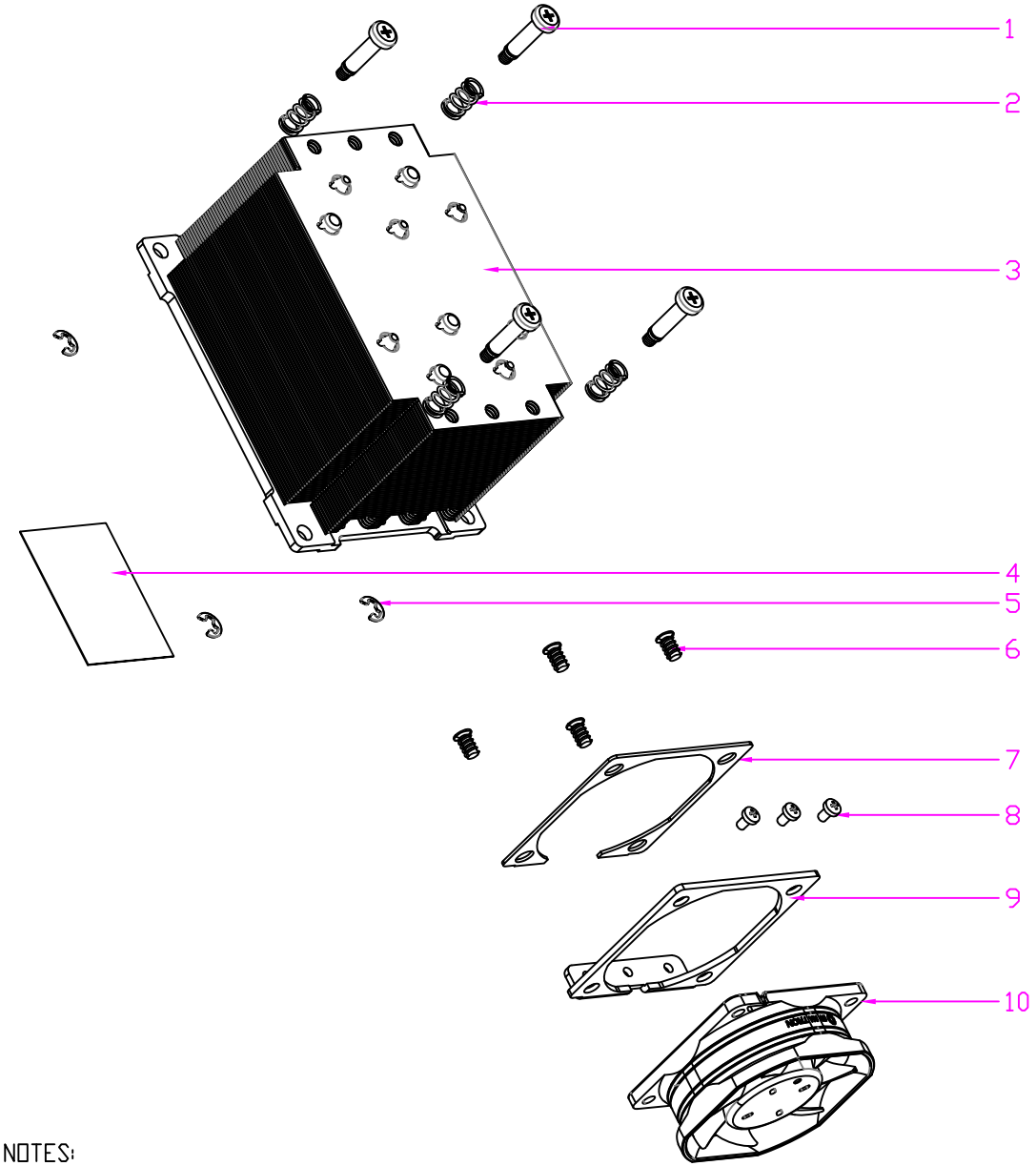
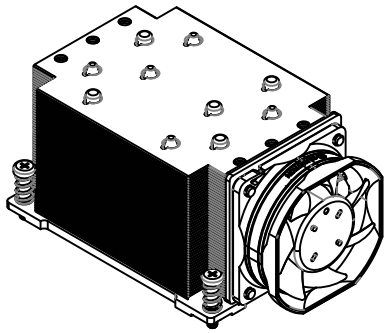
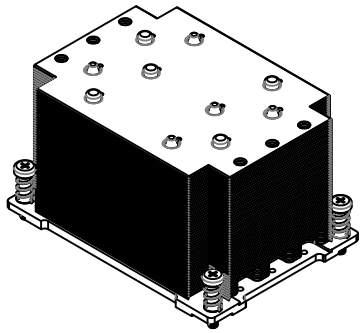
0.1	THERMAL GREASE UPDATE: X23-8079-2	Engr.	12/27/23





Active Mode



Passive Mode
(ITEM# 1-5 Only)

ITEM #	DESCRIPTION	MATERIAL	QTY.
10	FAN, LE06250019 (6025-11000RPM)	PBT	1
9	FAN BRACKET	SPCC	1
8	FAN BRACKET MOUNTING SCREW	STEEL	3
7	FAN BRACKET GASKET	CR RUBBER FOAM	1
6	FAN SCREW	STEEL	4
5	WASHER	STEEL	4
4	THERMAL GREASE	SHIN-ETSU X-23-8079-2	N/A
3	HEATSINK	HEAT PIPES, AL6063 BASE, CU1100 BASE BLOCK, AL1100 FIN	1
2	HEATSINK SPRING	SWC	4
1	HEATSINK SCREW	C1018	4

	DATE	NAME
DRAWN	12/27/23	Engr.
CHECKED	12/27/23	Engr.
ENG. APPR.		
MFG. APPR.		
Q.A.		
COMMENTS:		

TOP MOTOR DYNATRON CORPORATION

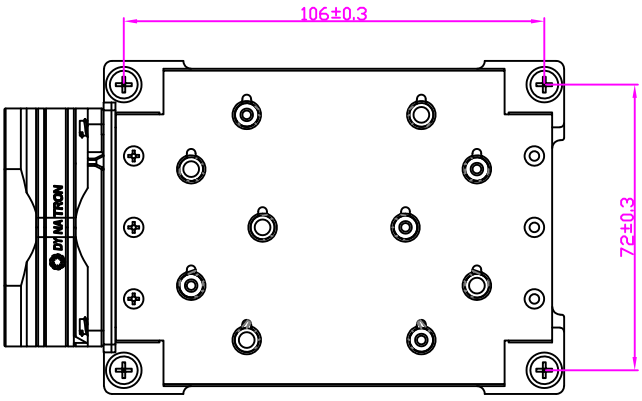
TITLE:
2U Air Cooler W1
BOM & Exploded Assembly Drawing

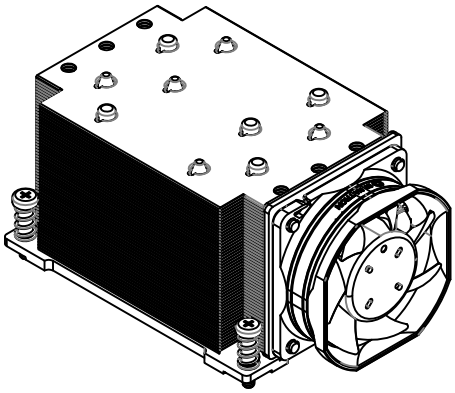
DWG. No: DYN-EP-W1

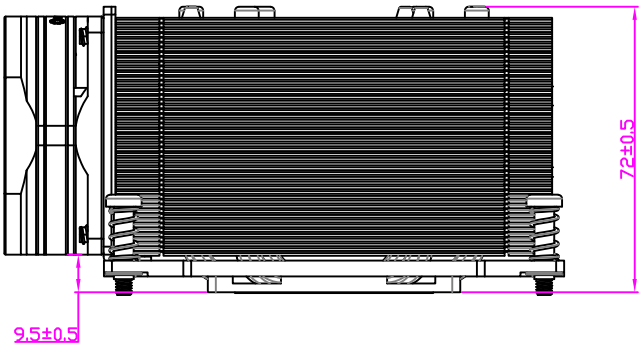
REV 0.1

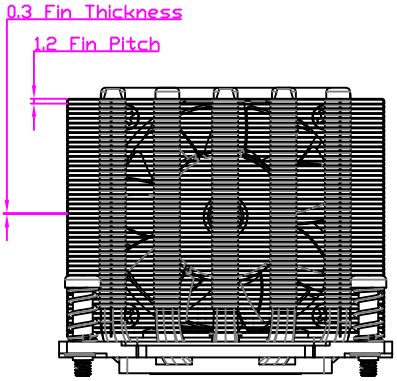
NOTES:
1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

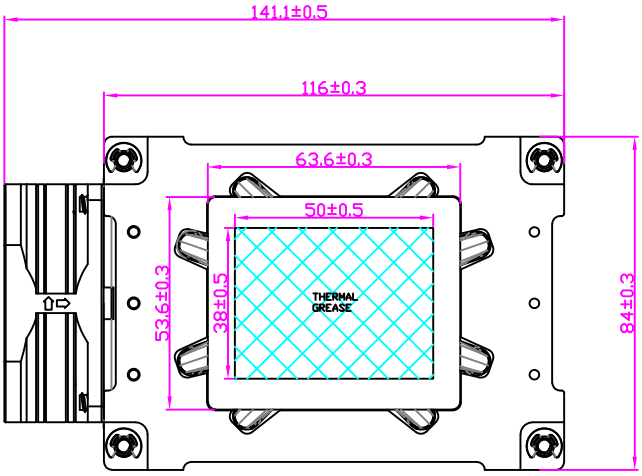
REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	12/26/23
0.1	THERMAL GREASE UPDATE: X23-8079-2	Engr.	12/27/23











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	NAME	DATE
DRAWN BY	ENGR	12/27/2023
CHECKED BY	ENGR	12/27/2023
ENG.APPROVED		
MFG.APPROVED	-	-

TOP MOTOR

DYNATRON CORPORATION

TITLE: 2U Air Cooler W1
Overall Dimension Drawing

VIEW		DWG. No:	REV.
UNITS	MM	DYN-DM-W1	0.1

Publication History:

05/07/2024: Thermal Performance Update

12/27/2023: Thermal Interface Material Update to X23-8079-2

12/26/2023: Initial Release

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