



A52

1U Active Air Cooler

PRODUCT SPECIFICATIONS

Specification Version: 07/01/2023

(Specifications are subject to change without notice)

Model Number: A52

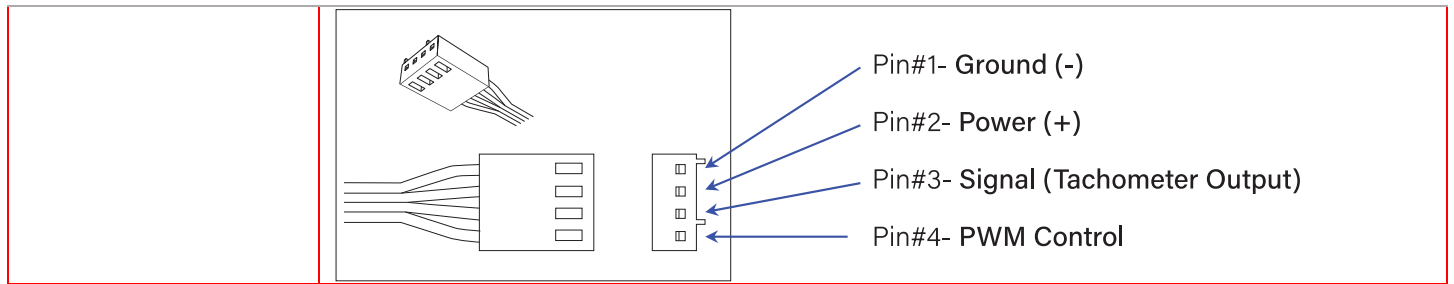
- Recommend for AMD® CPU as following
 - AMD® EPYC™ Processor, Socket SP6
- Active Air Cooler for 1U Server and Up

Overall Specification

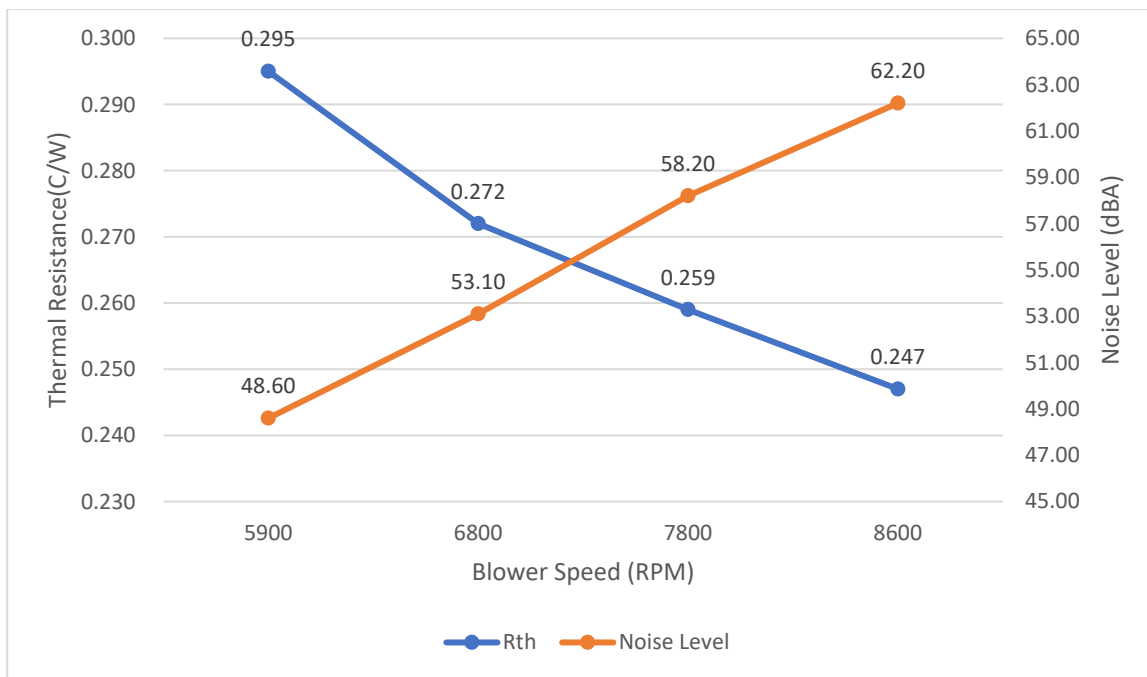
Dimension	120.0 x 82.0 x 28.6 mm
Weight	500g
Material	Copper 1100 Vapor Chamber and Stacked Fin
Thermal Grease	Shin-Etsu 7762 or Equivalent
TDP	Up to 140 Watts

Cooling Fan Specification

Model Number	DB128013BU-PWMG
Dimension	φ80 x 13 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2000± 200 RPM At Duty Cycle 50%: 4900± 10% RPM At Duty Cycle 100%: 8600±10% RPM
Input Power	At Duty Cycle 0~20%: 1.08 W At Duty Cycle 50%: 4.7 W At Duty Cycle 100%: 23.45 W
Maximum Airflow	At Duty Cycle 0~20%: 5.59 CFM At Duty Cycle 50%: 14.76 CFM At Duty Cycle 100%: 26.25 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 3.69 mm-H2O At Duty Cycle 50%: 25.28 mm-H2O At Duty Cycle 100%: 89.90 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 23.3 dBA At Duty Cycle 50%: 43.5 dBA At Duty Cycle 100%: 62.2 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Black(+) Pin#3- Black(Tachometer/ Signal Output) Pin#4- Black (PWM)

A52 | Socket SP6


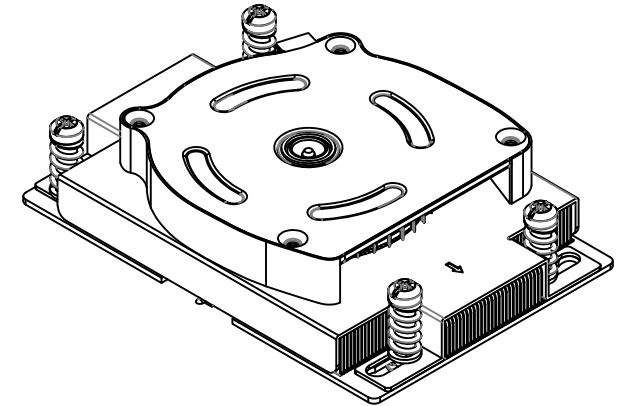
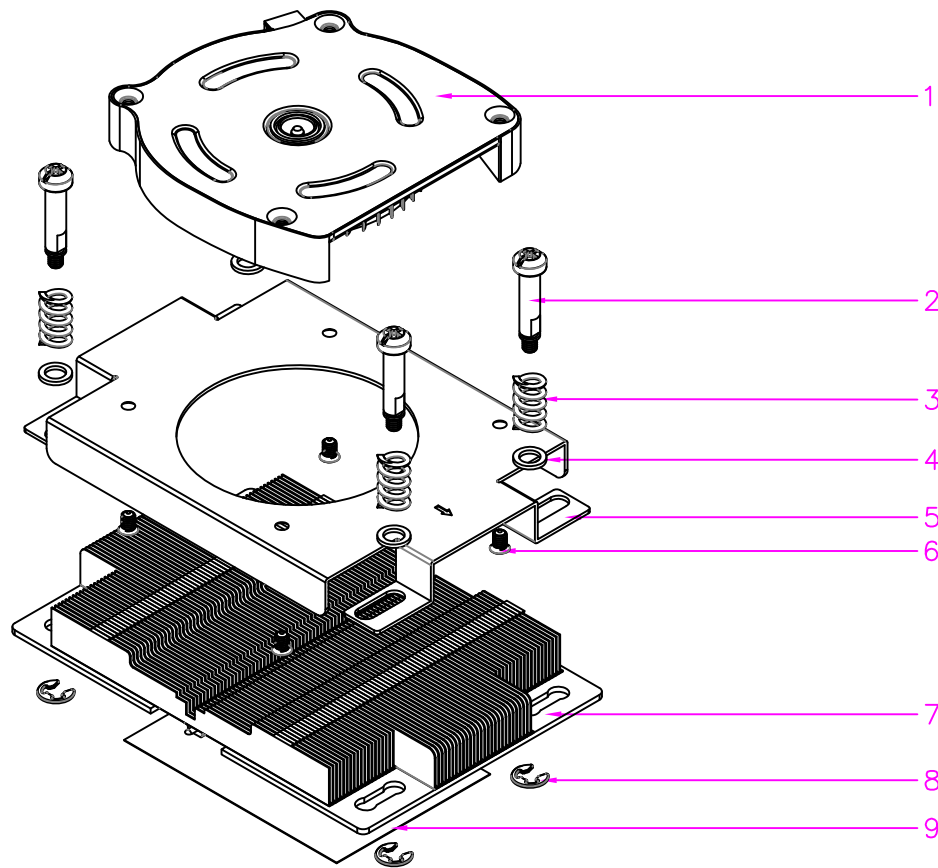
Performance Chart: Passive Cooler A52 Thermal Resistance Thermal Resistance vs. Blower Speed




CONFIDENTIAL DOCUMENT

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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	06/30/23
0.1	THERMAL GREASE SIZE UPDATE	Engr.	07/01/23



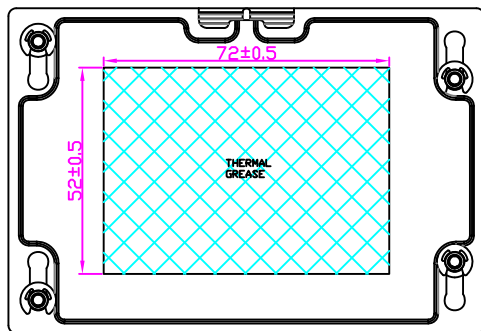
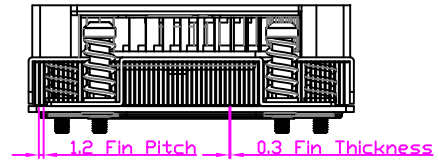
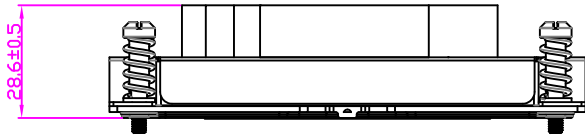
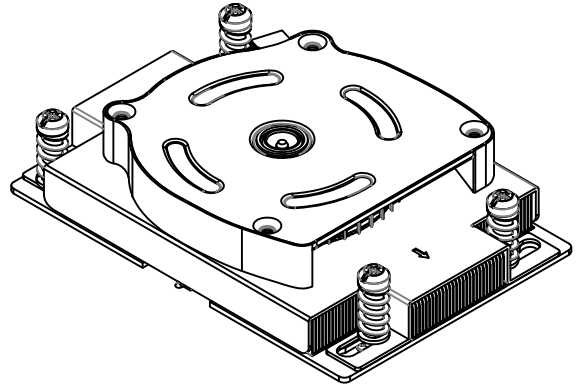
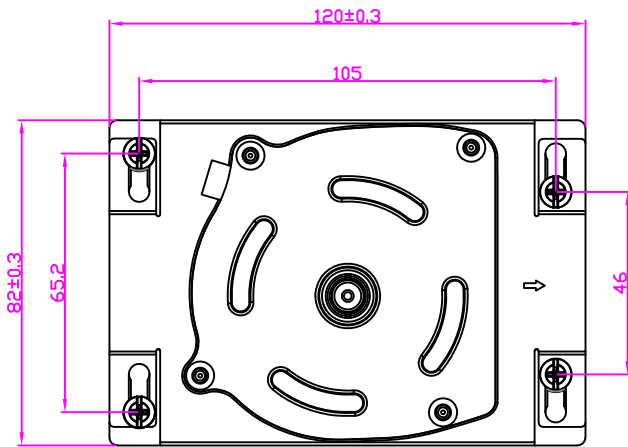
ITEM #	DESCRIPTION	MATERIAL	QTY.
9	THERMAL GREASE	SHIN-ETSU X-23-7762	1
8	HEATSINK CLIP (51900010)	STEEL	4
7	HEATSINK (50806120)	COPPER VC BASE, COPPER FINS	1
6	BLOWER BRACKET SCREW (50902190)	STEEL	4
5	BLOWER COVER (51301720)	SPCC	1
4	HEATSINK WASHER (52000030)	STEEL	4
3	HEATSINK SPRING (50600890)	SWP	4
2	HEATSINK SCREW (50904380)	STEEL	4
1	BLOWER (LE08130004, 8600RPM)	PPS+Galvanized Sheet	1

DATE	NAME	DYNATRON CORPORATION	
07/01/23	Engr.	 TITLE: 1U Air Cooler A52 BOM & Exploded Assembly Drawing	
07/01/23	Engr.		
COMMENTS:		DWG. No: DYN-EP-A52	REV 0.1

NOTES:

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

REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	06/30/23



	NAME	DATE
DRAWN BY	ENGR	06/30/2023
CHECKED BY	ENGR	06/30/2023
ENG. APPROVED		
MFG. APPROVED	-	-



DYNATRON CORPORATION

TITLE:

1U Air Cooler A52
Overall Dimension Drawing

VIEW	
UNITS	MM

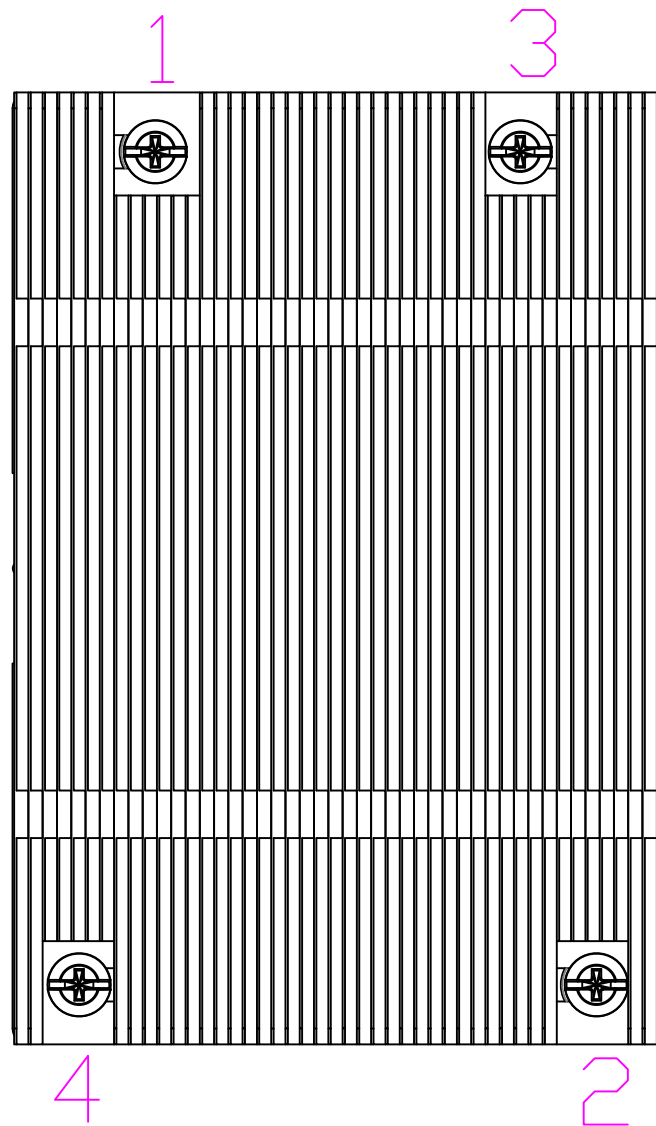
DWG. No:	DYN-DM-A52
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REV.	0.0
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1 2 3 4 5 6 7

SOCKET SP6 COOLER INSTALLATION INSTRUCTION



HEATSINK ASSEMBLY
ORDER 1,2,3,4

HEATSINK DISASSEMBLY
ORDER 4,3,2,1

TORQUE = 12.5 - 15.1 KG -CM

ALL SCREWS SHOULD BE
TIGHTENED/RELEASED EVENLY, AVOIDING
TIGHTENING/RELEASING ANY SCREWS TO THE
BOTTOM/TOP AT ONCE

Publication History:

07/01/2023: Thermal Grease Size Update

06/30/2022: Initial Release

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