

U8

Active Air Cooler

PRODUCT SPECIFICATIONS

Specification Version: 07/27/2023

(the specification is subject to change without notice)

U8 | Socket LGA1700/1200/115X/AM5/AM4

Model Number: U8

- Recommend for Intel® and AMD® CPU as following
 - Intel® Socket LGA 1700/1200/115X Processor
 - AMD® Socket AM5/AM4 Processor
- Active Cooler for 1.5U & Up, Mini ITX Application

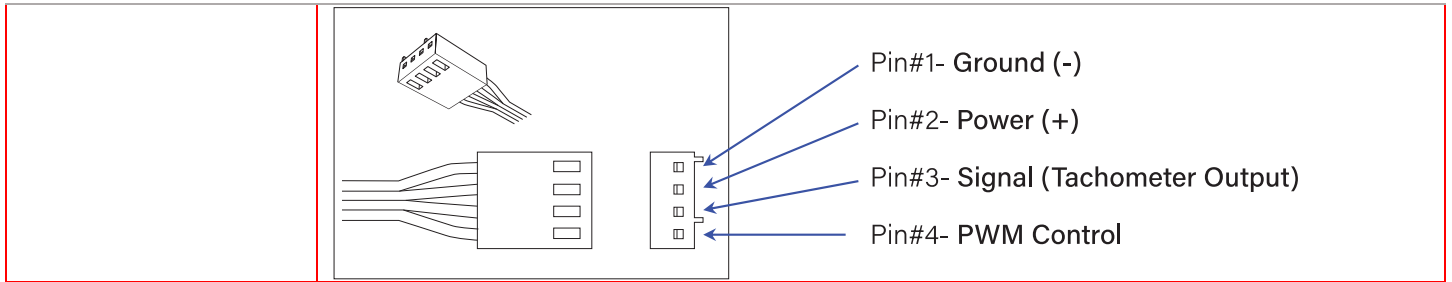
Overall Specification

Dimension	93.4 x 95.0 x 35.2 mm
Weight	392g (Fan + Heatsink)
Material	Copper Base & Aluminum Fins with Heat Pipe Embedded
Fan	92.0 x 92.0 x 12.0 mm Axial fan with PWM Function
Thermal Grease	Shin-Etsu 7762 or Equivalent
TDP-Intel	135 W at 30° ambient temperature
TDP-AMD	130 W at 30° ambient temperature

Cooling Fan Specification

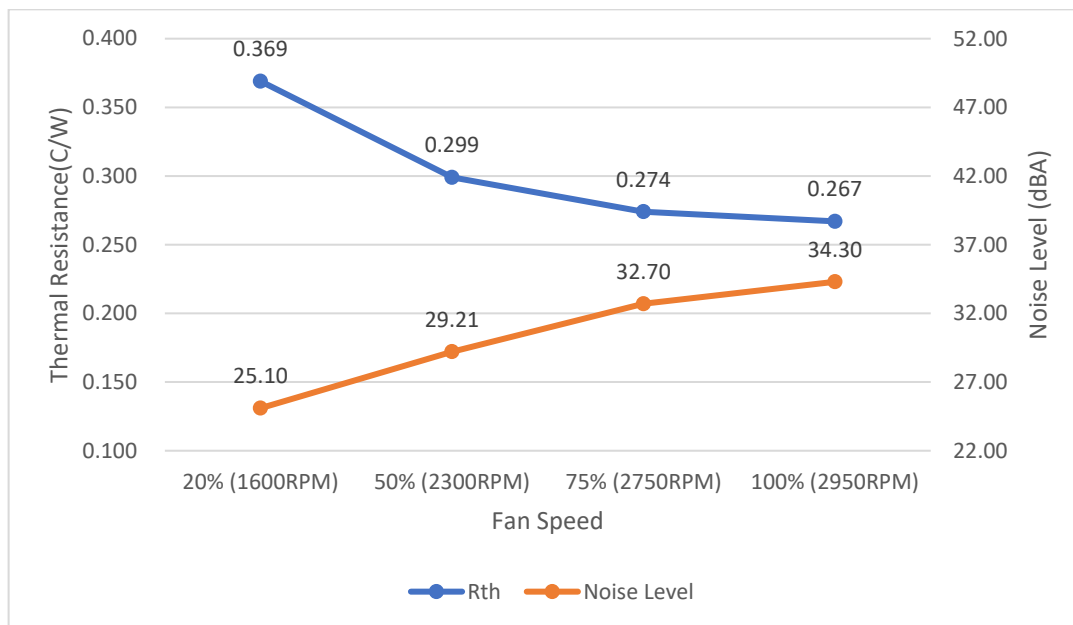
Dimension	92.0 x 92.0 x 12.0 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 800 ± 200 RPM At Duty Cycle 50%: 1900 ± 10% RPM At Duty Cycle 100%: 3200 ± 10% RPM
Input Power	At Duty Cycle 0~20%: 0.2 W At Duty Cycle 50%: 0.5 W At Duty Cycle 100%: 1.6 W
Maximum Airflow	At Duty Cycle 0~20%: 9.88 CFM At Duty Cycle 50%: 21.38 CFM At Duty Cycle 100%: 35.78 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 0.28 mm-H2O At Duty Cycle 50%: 1.22 mm-H2O At Duty Cycle 100%: 3.21 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 22.3 dBA At Duty Cycle 50%: 26.1 dBA At Duty Cycle 100%: 36.2 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Black (+) Pin#3- Black (Tachometer/ Signal Output) Pin#4- Black (PWM) Lead Wire Pin Out Diagram :

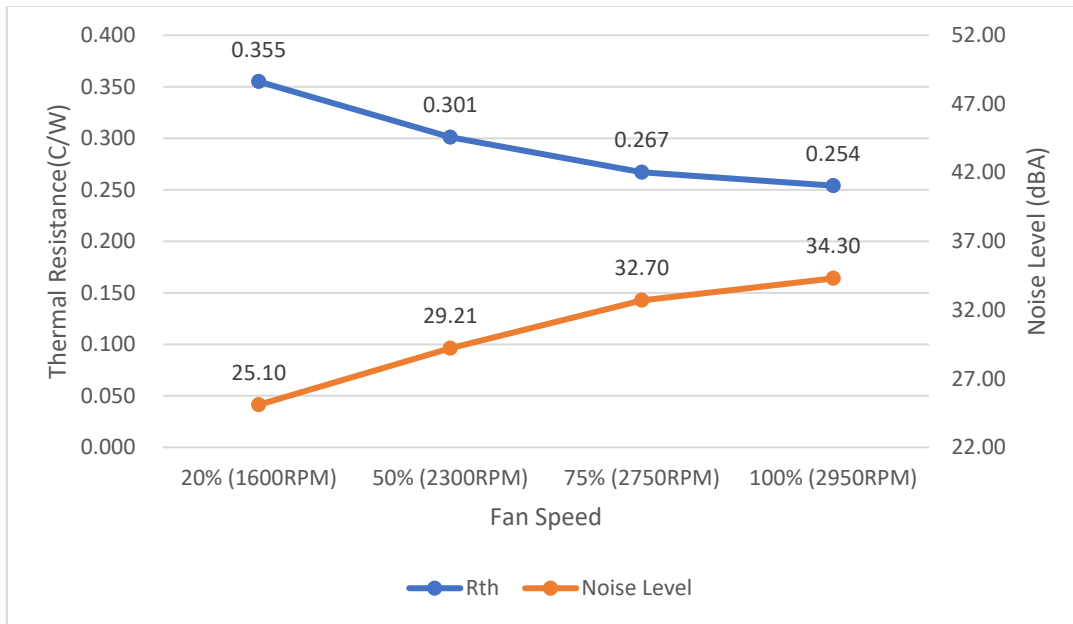
U8 | Socket LGA1700/1200/115X/AM5/AM4



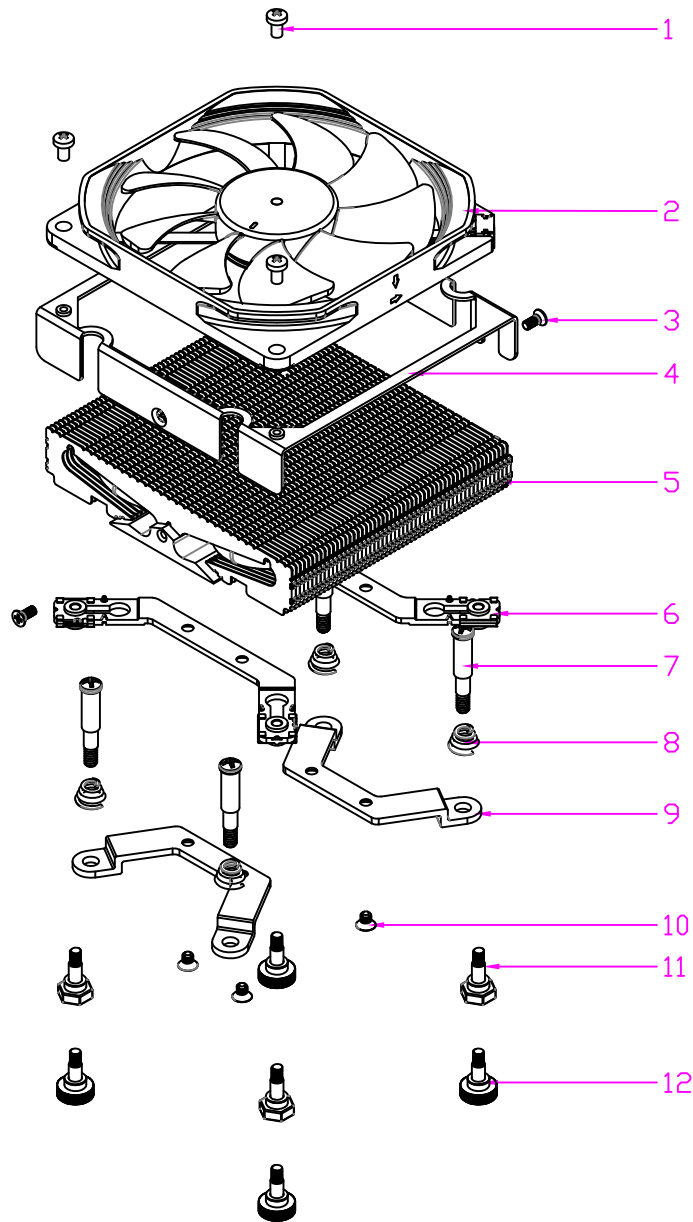
Performance Chart: Active Cooler U8 Thermal Resistance Thermal Resistance vs. Fan Speed (Duty Cycle and RPM)

LGA 1700

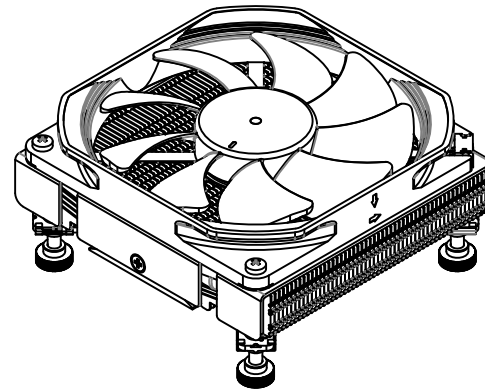


U8 | Socket LGA1700/1200/115X/AM5/AM4**Socket AM5**

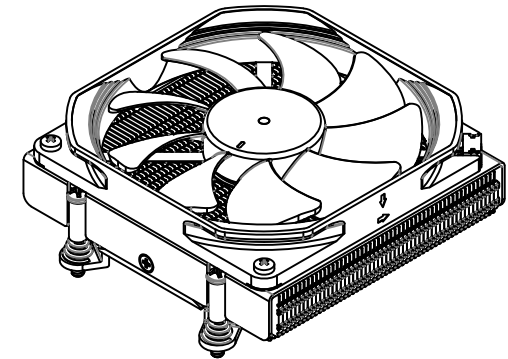
REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	04/15/22
0.1	TIM UPDATE	Engr.	02/03/23



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



Intel Mode

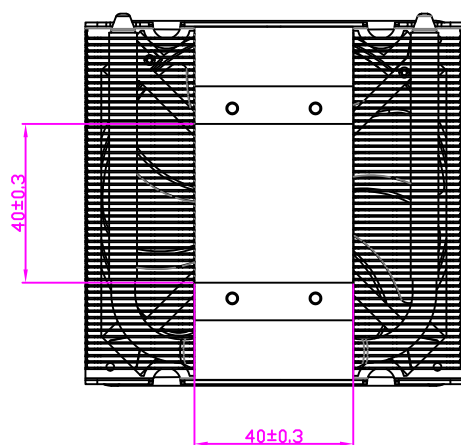
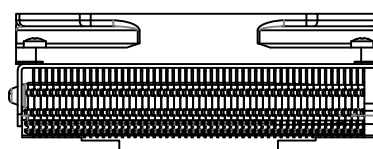
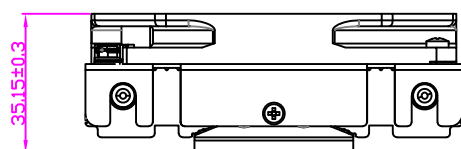
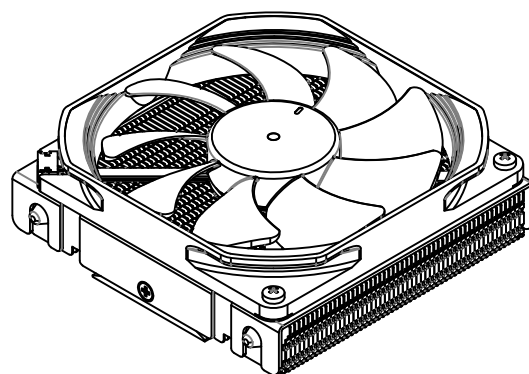
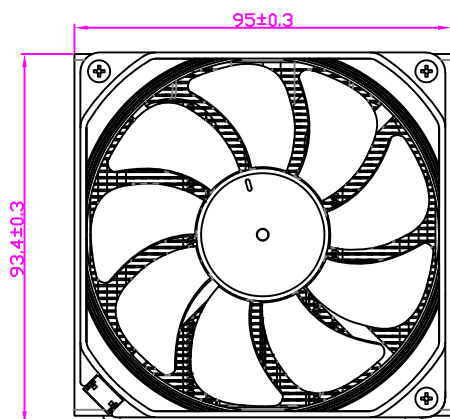


AMD Mode

12	INTEL 1700 SCREW	STEEL WITH INSULATOR	4
11	INTEL 115X SCREW	STEEL WITH INSULATOR	4
10	BRACKET INSTALLATION SCREW	STEEL	4
9	AMD BRACKET	STEEL	1
8	AMD SPRING	STEEL	4
7	AMD SCREW	6-32	4
6	INTEL BRACKET	STEEL	1
5	HEATSINK	ALUMINUM FINS, COPPER BASE, HEATPIPES	1
4	FAN BRACKET	STEEL	1
3	FAN BRACKET SCREW	M2.5	2
2	FAN	9212	1
1	FAN INSTALLATION SCREW	M3	4
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 DYNATRON CORPORATION	
DRAWN	02/03/23	Engr.	TITLE: Active Air Cooler U8 BOM & Exploded Assembly Drawing	
CHECKED	02/03/23	Engr.		
ENG. APPR.				
MFG. APPR.				
QA				
COMMENTS:			DWG. No: DYN-EP-U8	
			REV 0.1	

REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	04/15/82
0.1	TIM UPDATE	Engr.	02/03/83



	NAME	DATE
DRAWN BY	ENGR	02/03/2023
CHECKED BY	ENGR	02/03/2023
ENG.APPROVED		
MFG.APPROVED	-	-



TOP MOTOR

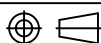
DYNATRON CORPORATION

TITLE: Active Air Cooler U8
Overall Dimension Drawing

CONFIDENTIAL DOCUMENT

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VIEW



DWG. No:

UNITS

MM

DYN-BD-U8

REV.
0.1

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Document History:

07/27/2023: Thermal Performance Chart Update

06/22/2022: Initial release