



U14

Desktop Active Air Cooler

PRODUCT SPECIFICATIONS

Speficiation Version: 07/23/2024

(Specifications are subject to change without notice)

U14 | Socket Intel LGA1700/1851 | AMD AM4/AM5

Model Number: U14

- Recommend for Intel® CPU as following
 - Intel® Core 12th – 14th generation Socket LGA1700/1851
- Recommend for AMD® CPU as following
 - AMD® Ryzen Socket AM4/AM5
- Active Air Cooler for desktop PC and work station.

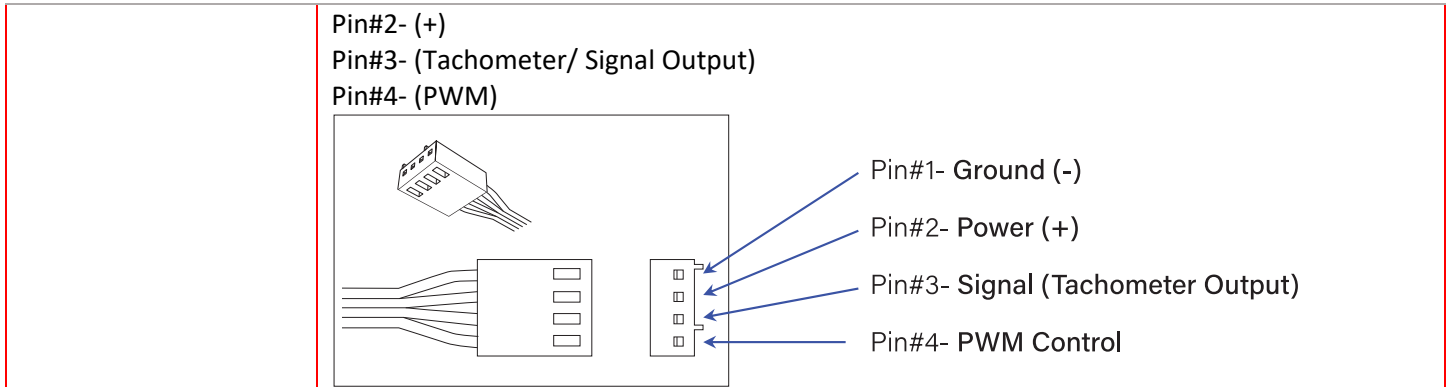
Overall Specification

Dimension	77.8 x 147 x 165 mm
Weight	600 g
Fan	140mm Side-blow Fan with PWM function
Material	Aluminum Stacked-fin with Heat Pipes directly contact CPU
Mounting	Convenient Heat Sink screw captive mounting
Thermal Grease	Shin-Etsu X23-8079-2 Pre-Printed
TDP (Intel)	253W @ 30C ambient
TDP (AMD)	185W @ 30C ambient

Cooling Fan Specification

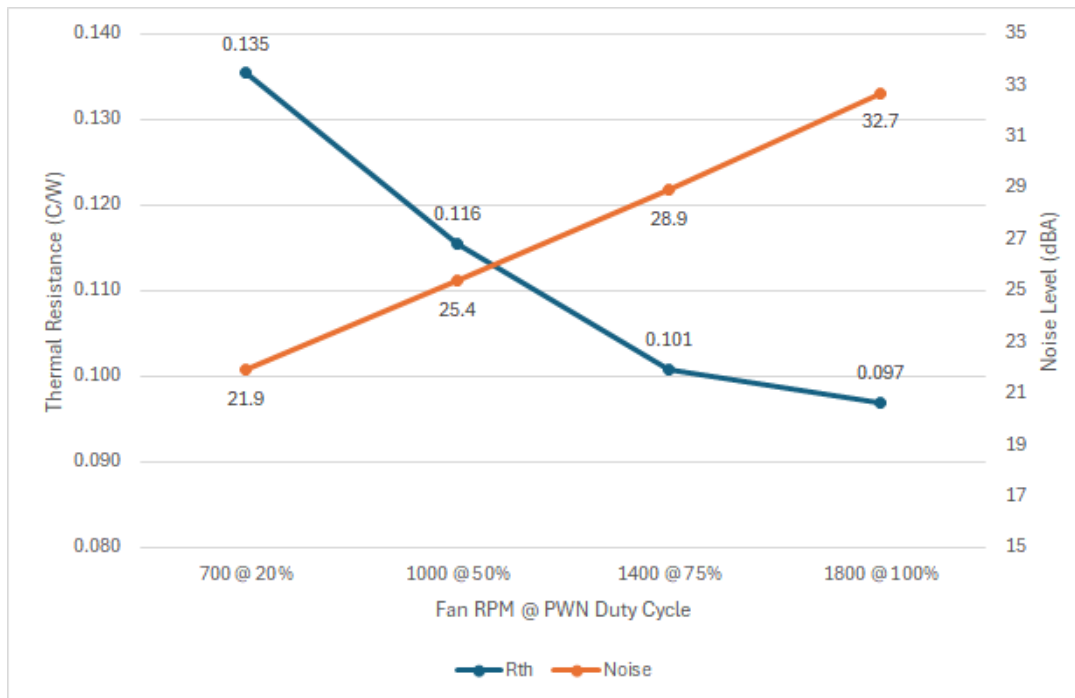
Model Number	DF121425BM
Dimension	140 x 140 x 25.8 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 700± 200 RPM At Duty Cycle 50%: 1000± 10% RPM At Duty Cycle 100%: 1800±10% RPM
Input Power	At Duty Cycle 0~20%: 0.46 W At Duty Cycle 50%: 0.65 W At Duty Cycle 100%: 2.08 W
Maximum Airflow	At Duty Cycle 0~20%: 41.67 CFM At Duty Cycle 50%: 56.41 CFM At Duty Cycle 100%: 96.55 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 0.60 mm-H2O At Duty Cycle 50%: 1.00 mm-H2O At Duty Cycle 100%: 2.50 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 21.9 dBA At Duty Cycle 50%: 25.4 dBA At Duty Cycle 100%: 32.7 dBA
Lead Wire Pin Out	Pin#1- (-)

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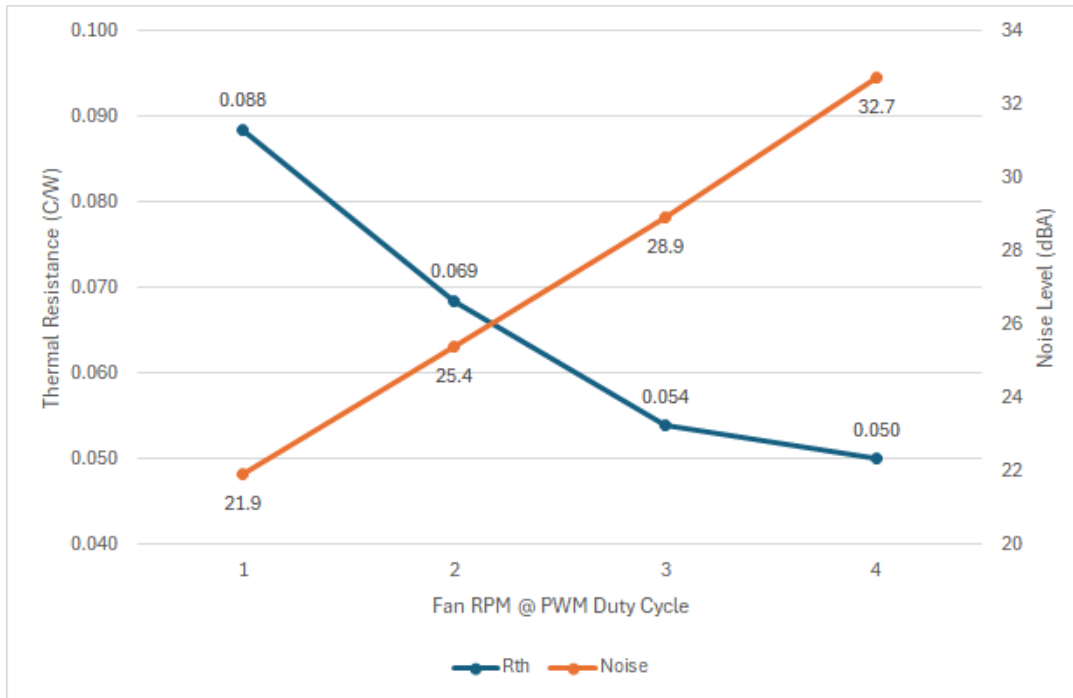
Performance Chart: Active Cooler U15 Thermal Resistance Active Cooler U15 Cooling Performance vs. Fan Speed

Intel



U14 | Socket Intel LGA1700/1851 | AMD AM4/AM5

AMD



Publication History:

07/30/2024: Initial Release.

(Specifications are subject to change without notice)

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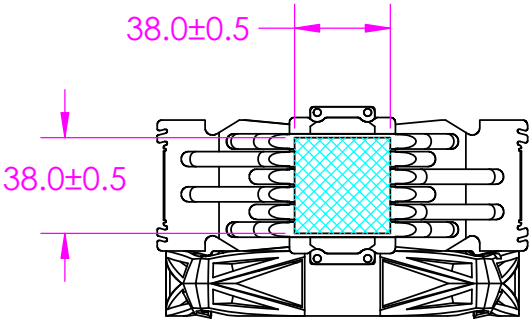
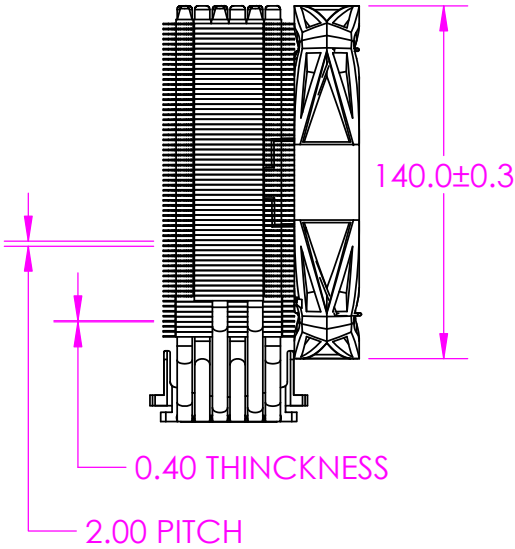
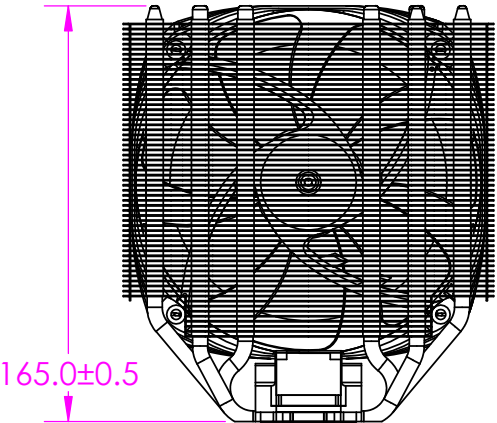
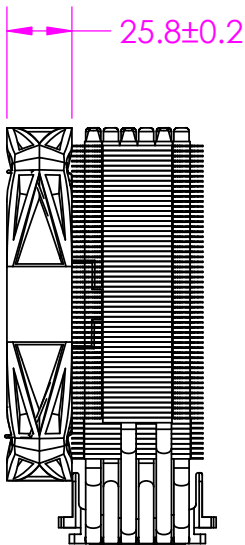
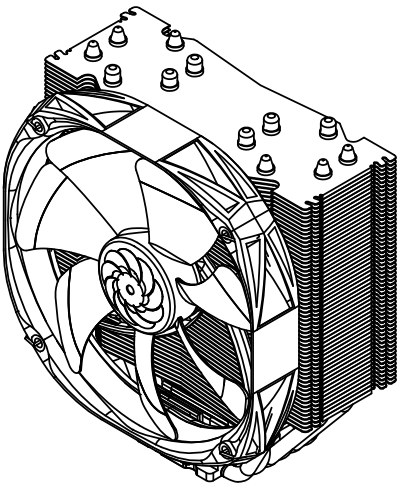
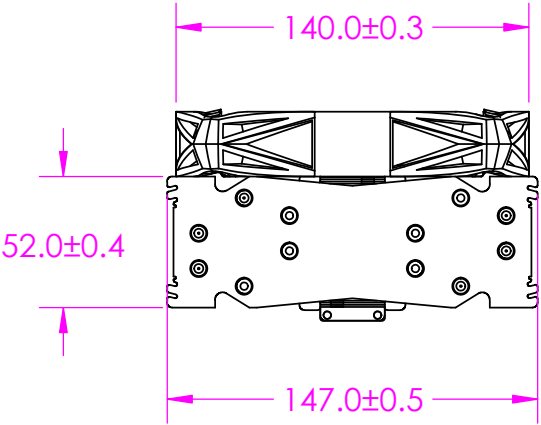
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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JUN	7/16/24



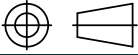
	NAME	DATE
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CHECKED BY	JUN	7/30/2024
ENG.APPROVED		
MFG.APPROVED		


TOP MOTOR
TITLE:

DYNATRON CORPORATION

U14 DESKTOP COOLER
OVERALL DIMENSION DRAWING

CONFIDENTIAL DOCUMENT
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VIEW	
UNITS	MM

DWG. No:	DYN-BD-U14
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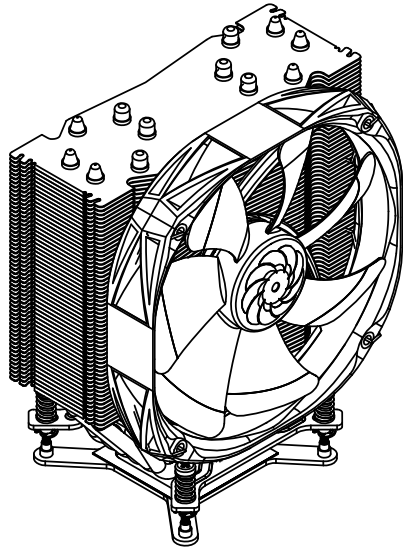
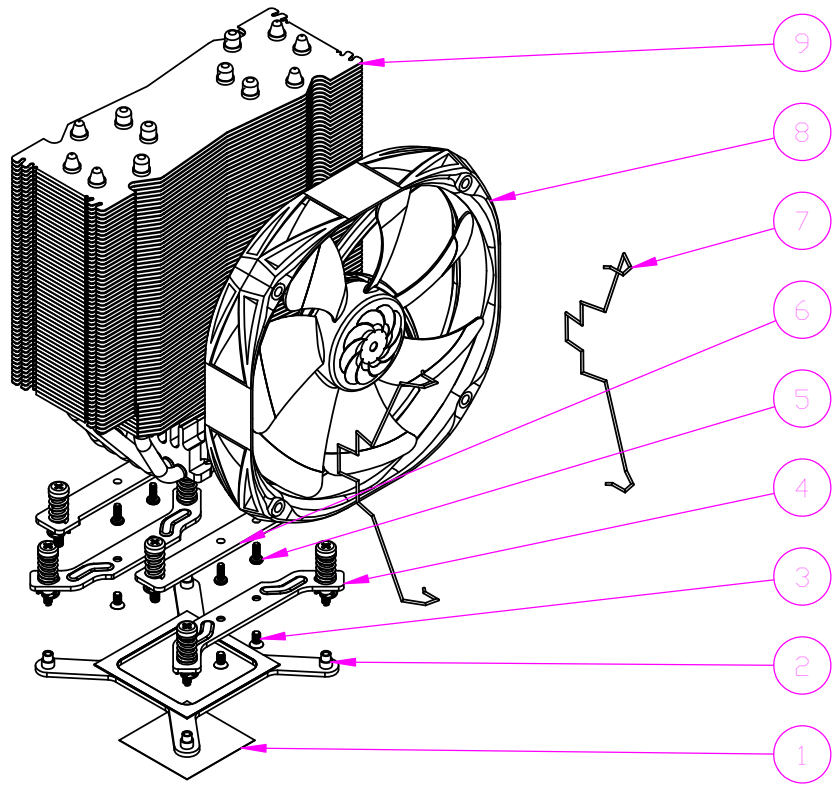
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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JUN	03/23/23

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9	HEATSINK	AL BASE, CU HEAT PIPE, AL FINS	1
8	FAN, DF1214025, 1800RPM	PLASTIC	1
7	WIRE CLIP	STEEL	2
6	AMD AM4/5 RETENTION+SCREW KIT	STEEL	2
5	SCREW, AMD RETENTION	STEEL	4
4	INTEL LGA1700 RETENTION+SCREW KIT	STEEL	2
3	SCREW, INTEL RETENTION	STEEL	4
2	INTEL LGA1700 BACK PLATE	STEEL, INSULATION PAD	1
1	THERMAL GREASE	SHIN-ETSU X23-8079-2	N/A
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 DYNATRON CORPORATION TOP MOTOR	
DRAWN	7/30/2024	JUN	TITLE: U14 DESKTOP AIR COOLER BOM & exploded Assembly Drawing	
CHECKED	7/30/2024	JUN		
ENG.APPR.				
MFG.APPR.				
COMMENTS:			DWG. NO. DYN-EP-U14	REV 0.0

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