

A42

1U Active Air Cooler

PRODUCT SPECIFICATIONS

Speficiation Version: 12/22/2022

(Specifications are subject to change without notice)

A42 | Socket AM5/AM4

Model Number: A42

- Recommend for AMD® CPU as following
 - AMD® Ryzen® Processor Family, Socket AM5
- Active Air Cooler for 1U Server and Up

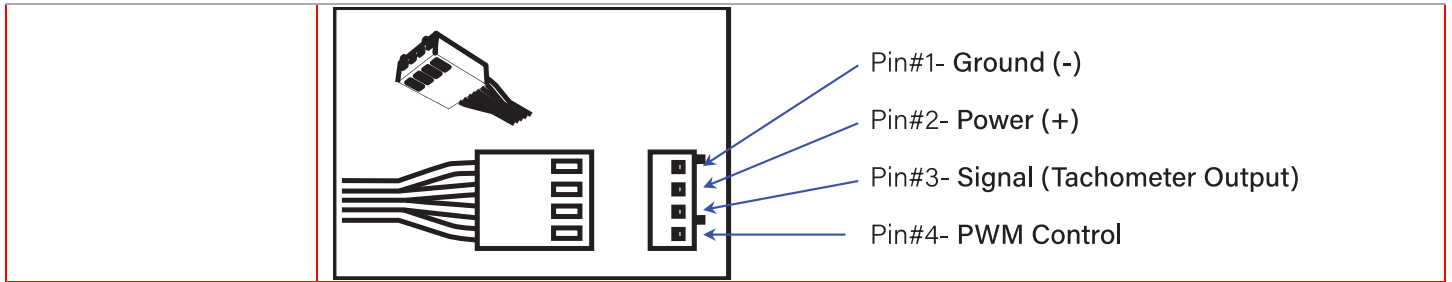
Overall Specification

Dimension	110.0 x 86.0 x 27.9 mm
Weight	540 g
Material	Copper Fin
Thermal Grease	Shin-Etsu 7762 or Equivalent
TDP	140W at 30° ambient temperature

Cooling Fan Specification

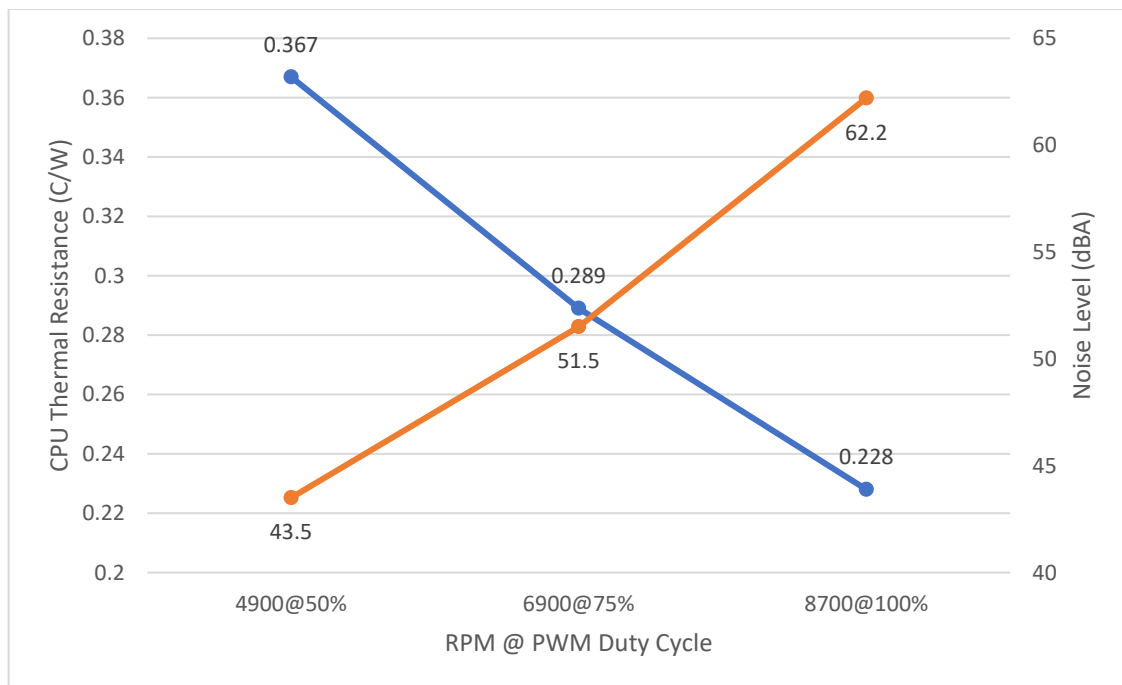
Model Number	DB128013BU-PWM
Dimension	φ80 x 13 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2000± 200 RPM At Duty Cycle 50%: 4900± 10% RPM At Duty Cycle 100%: 8600±10% RPM
Input Power	At Duty Cycle 0~20%: 1.08 W At Duty Cycle 50%: 4.7 W At Duty Cycle 100%: 23.45 W
Maximum 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%: 89.80 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- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

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Performance Chart: Active Cooler A42 Thermal Resistance

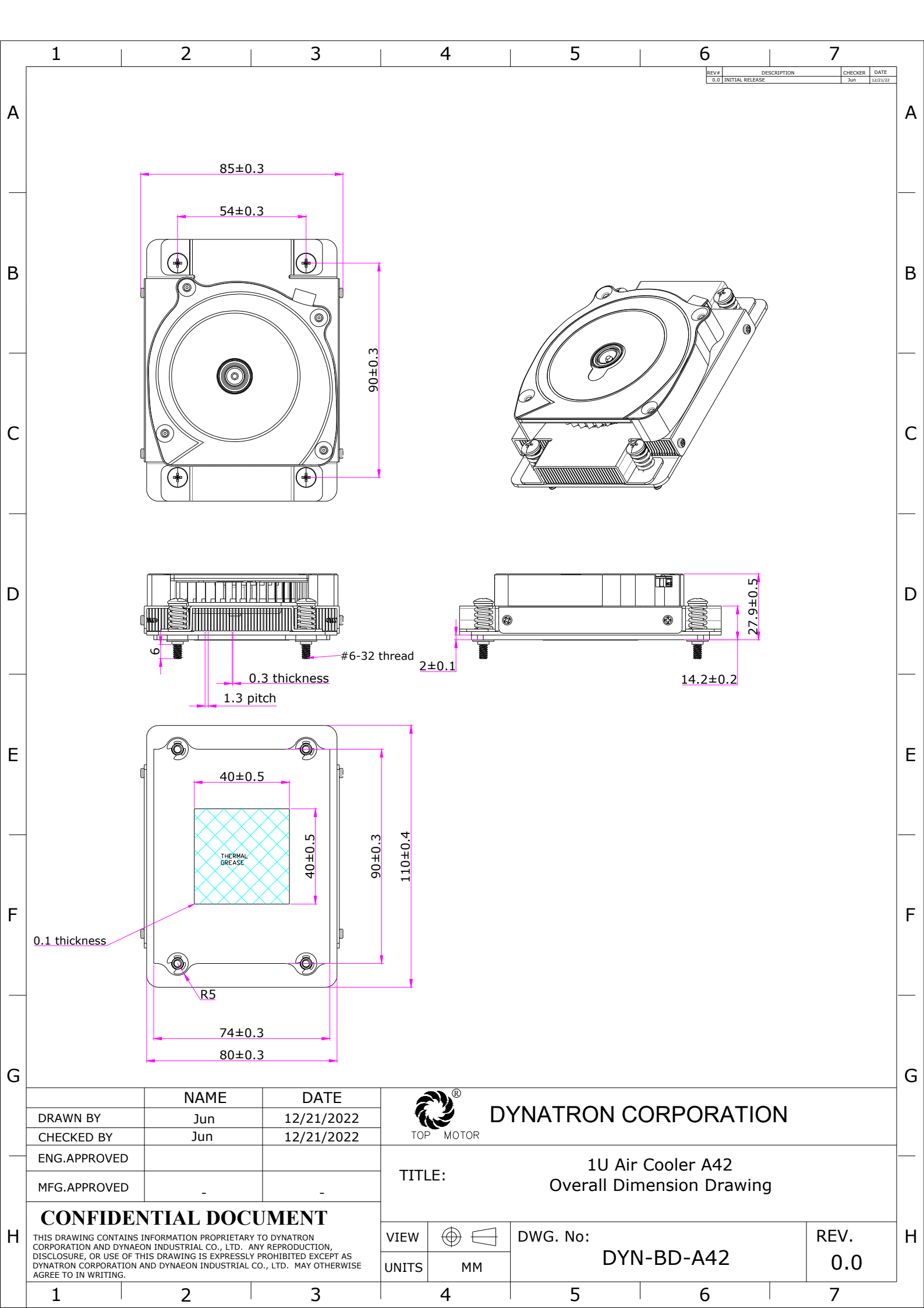
Thermal Resistance vs. Blower Speed @ PWM Duty Cycle



Publication History:

12/22/2022: Initial Release

(Specifications are subject to change without notice)



REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Jun	12/21/22



TOP MOTOR

DYNATRON CORPORATION

TITLE: 1U Air Cooler A42
Overall Dimension Drawing

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VIEW	
UNITS	MM

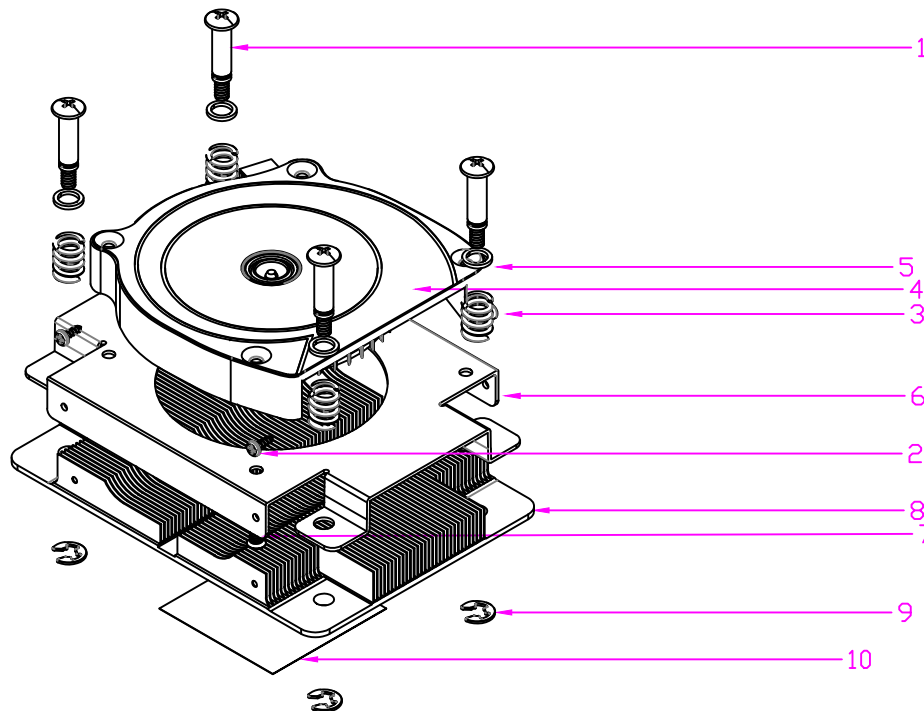
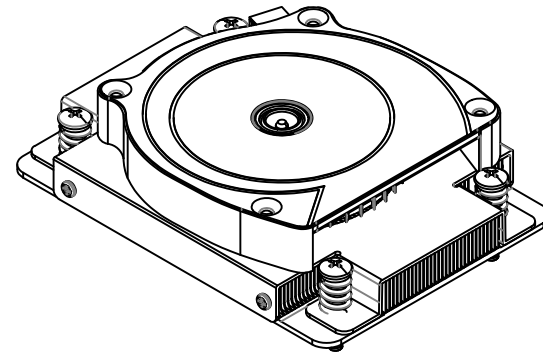
DWG. No: DYN-BD-A42

REV. 0.0

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0.0	INITIAL RELEASE	Jun	12/22/22



10	THERMAL GREASE	SHIN-ETSU 7762	N/A
9	C-RING	STEEL	4
8	HEATSINK	COPPER SKIVING FIN	1
7	SCREW, BRACKET BLOWER	STEEL	4
6	BLOWER BRACKET	STEEL	1
5	WASHER 1MM	STEEL	4
4	BLOWER	DB128013BU-PWM	1
3	SPRING	STEEL	4
2	SCREW, BRACKET HEATSINK	STEEL	4
1	SCREW, HEATSINK	STEEL	4
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 DYNATRON CORPORATION TITLE: 1U Air Cooler A42 BOM & Exploded Assembly Drawing DWG. No: DYN-EP-A42	REV 0.0
DRAWN	12/22/22	Jun		
CHECKED	12/22/22	Jun.		
ENG. APPR.				
MFG. APPR.				
QA.				
COMMENTS				