

L43

1U Liquid Cooler

PRODUCT SPECIFICATIONS

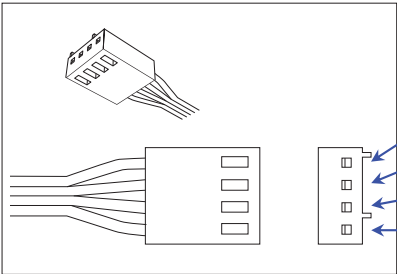
Speficiation Version: 02/22/2024

(Specifications are subject to change without notice)

Model Number: L43

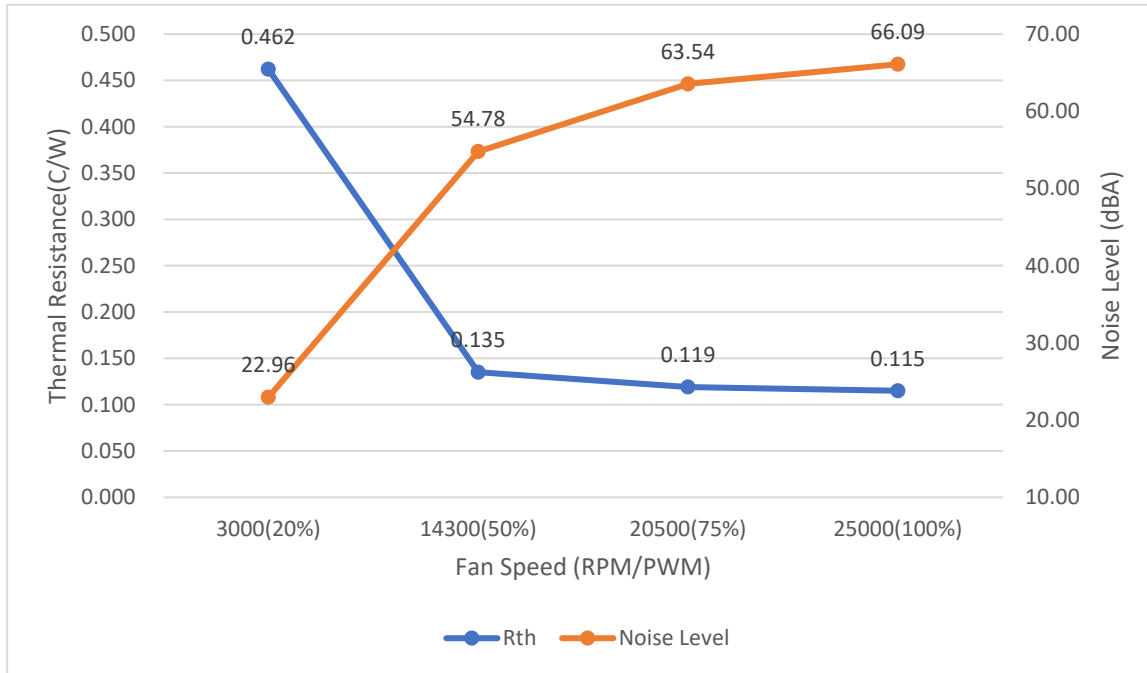
- Recommend for LGA 4926 Processor
- Liquid Cooler for 1U Server and Up
- Shin-Etsu X23-8079-2 Pre-Printed
- Fully Support 250W at 43°C Ambient Temperature

Cooling Fan Specification

Model Number	DF124028BU-PWMH
Dimension	40 x 40 x 28 mm
Bearing	Double Ball
Rated Voltage	DC 12V
Rated Speed	At Duty Cycle 0~20%: 3300±200 RPM At Duty Cycle 50%: 15000±10% RPM At Duty Cycle 100%: 26000±10% RPM
Input Power	At Duty Cycle 0~20%: 0.72 W At Duty Cycle 50%: 6.0 W At Duty Cycle 100%: 22.8 W
Maximum Airflow	At Duty Cycle 0~20%: 4.74 CFM At Duty Cycle 50%: 21.53 CFM At Duty Cycle 100%: 37.32 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 1.612 mm-H ₂ O At Duty Cycle 50%: 33.30 mm-H ₂ O At Duty Cycle 100%: 100.06 mm-H ₂ O
Acoustical Noise	At Duty Cycle 0~20%: 19.35 dBA At Duty Cycle 50%: 52.23 dBA At Duty Cycle 100%: 64.17 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)  Pin#1- Ground (-) Pin#2- Power (+) Pin#3- Signal (Tachometer Output) Pin#4- PWM Control

Performance Chart: Passive Cooler L43 Thermal Resistance

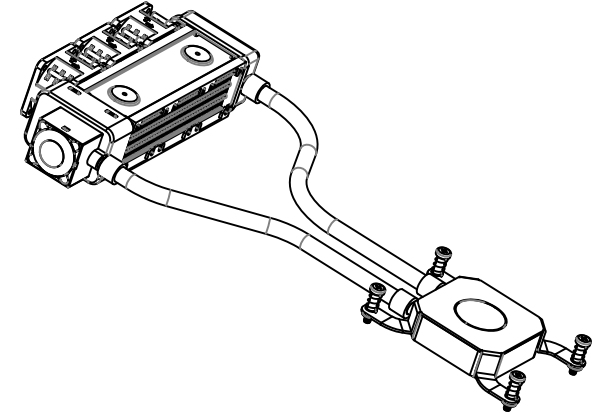
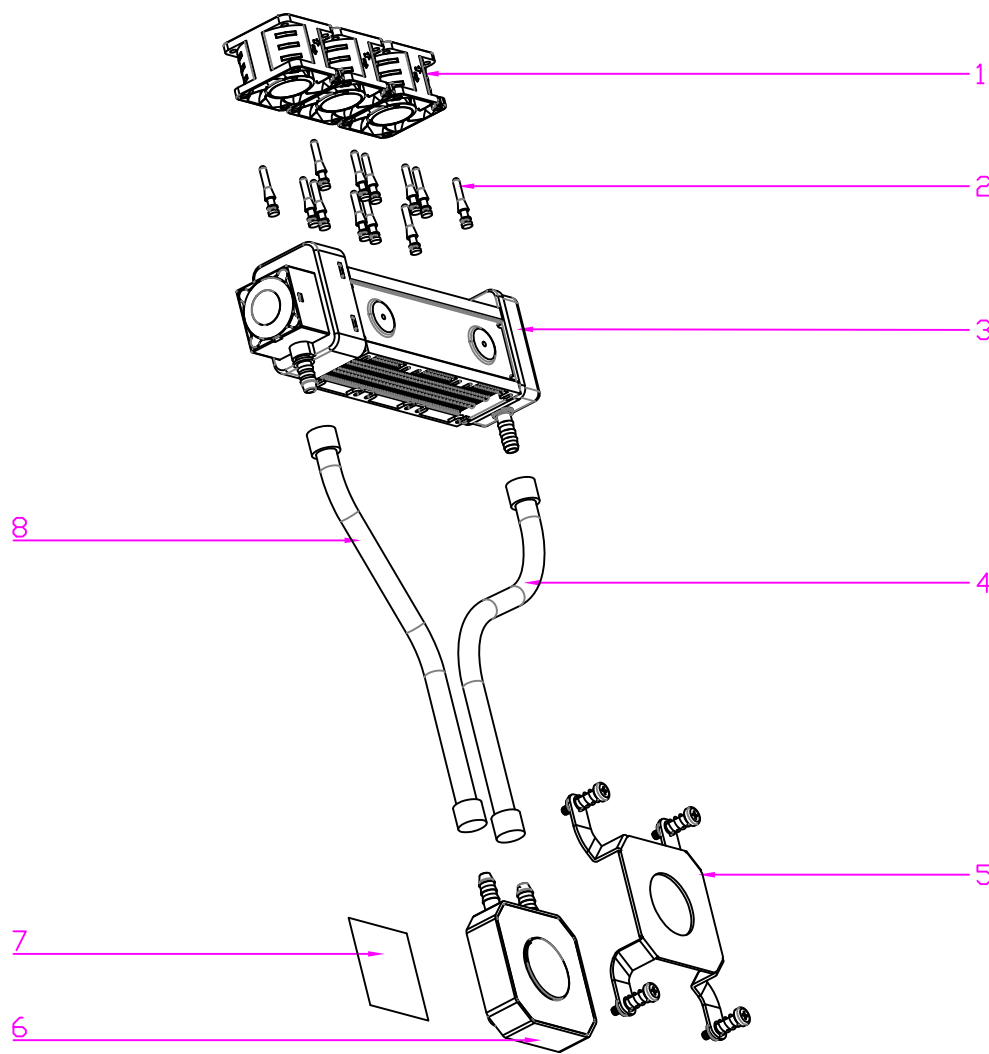
Thermal Resistance vs. Fan Speed



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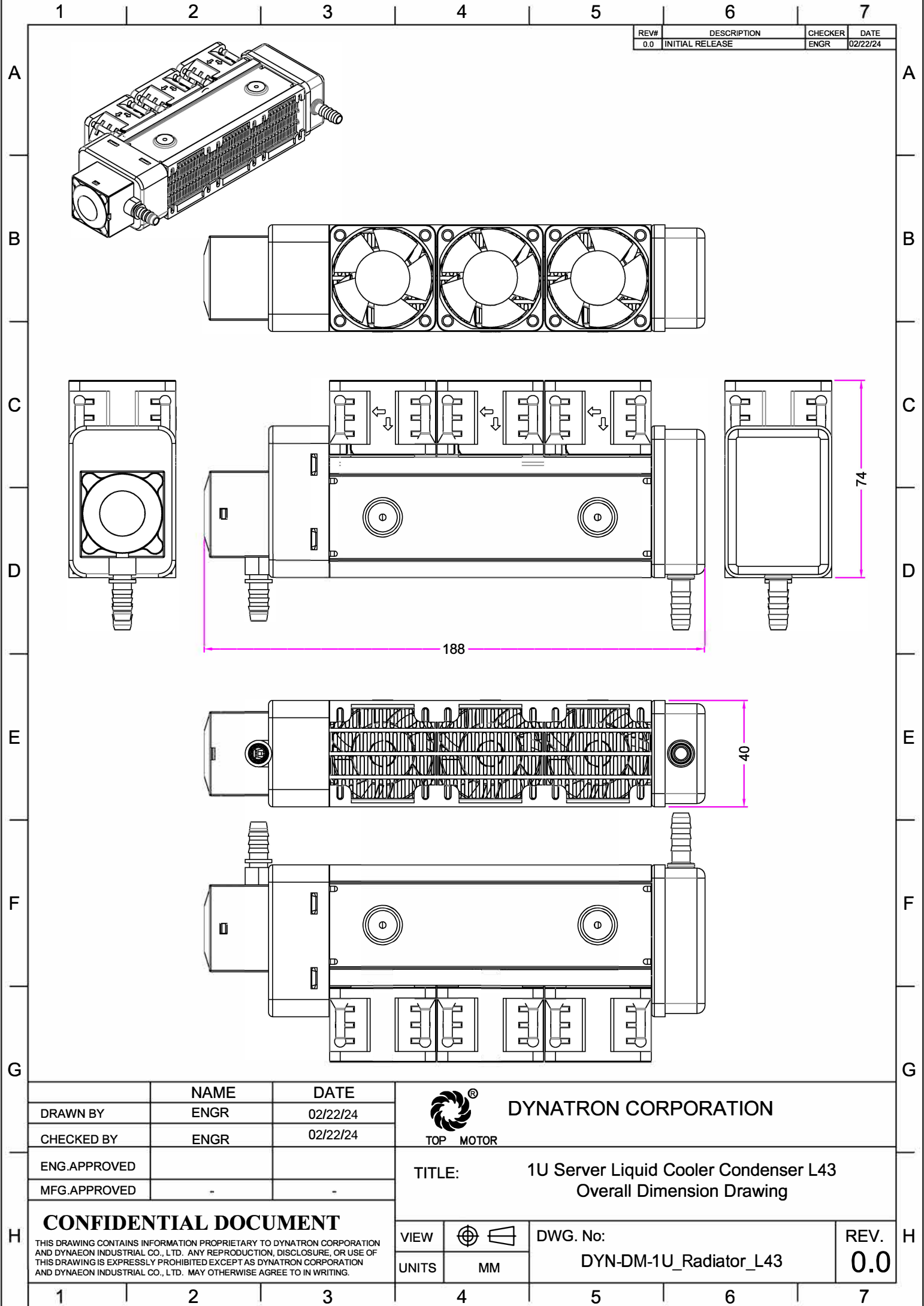


8	RADIATOR HOSE (COLD SIDE)	LENGTH = 255MM, RUBBER	1
7	THERMAL GREASE	SHIN ETSU X23-8079-2	N/A
6	CP65 (WITH 180° BARB)	COPPER + PLASTIC	1
5	DY-RT_4926_SET	STEEL	1
4	RADIATOR HOSE (HOT SIDE)	LENGTH = 290MM, RUBBER	1
3	RADIATOR	ALUMINUM ALLOY + PLASTIC	1
2	FAN MOUNTING PIN	RUBBER	12
1	FAN, DF124028BU-PWMH, 26000RPM	PLASTIC	3
ITEM #	DESCRIPTION	MATERIAL	QTY.

DATE		NAME	 DYNATRON CORPORATION
DRAWN		02/22/24	
CHECKED		02/22/24	
ENG. APPR.			
MFG. APPR.			
QA			TITLE: 1U Liquid Cooler L43 BDM & Exploded Assembly Drawing
COMMENTS			
DWG. No: DYN-EP-L43			REV 0.0

NOTES:

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



REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	ENGR	02/22/24

	NAME	DATE
DRAWN BY	ENGR	02/22/24
CHECKED BY	ENGR	02/22/24
ENG.APPROVED		
MFG.APPROVED	-	-



DYNATRON CORPORATION

TOP MOTOR

TITLE: 1U Server Liquid Cooler Condenser L43
Overall Dimension Drawing

VIEW	
UNITS	MM

DWG. No:
DYN-DM-1U_Radiator_L43

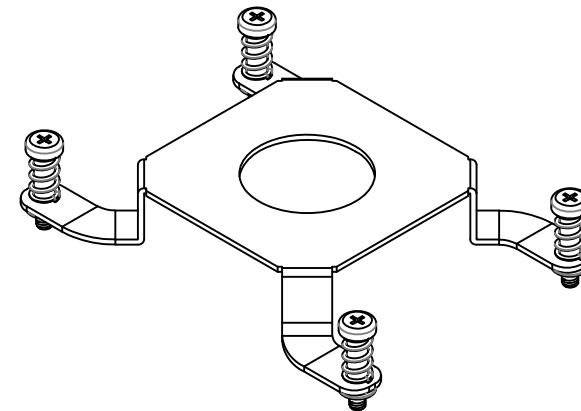
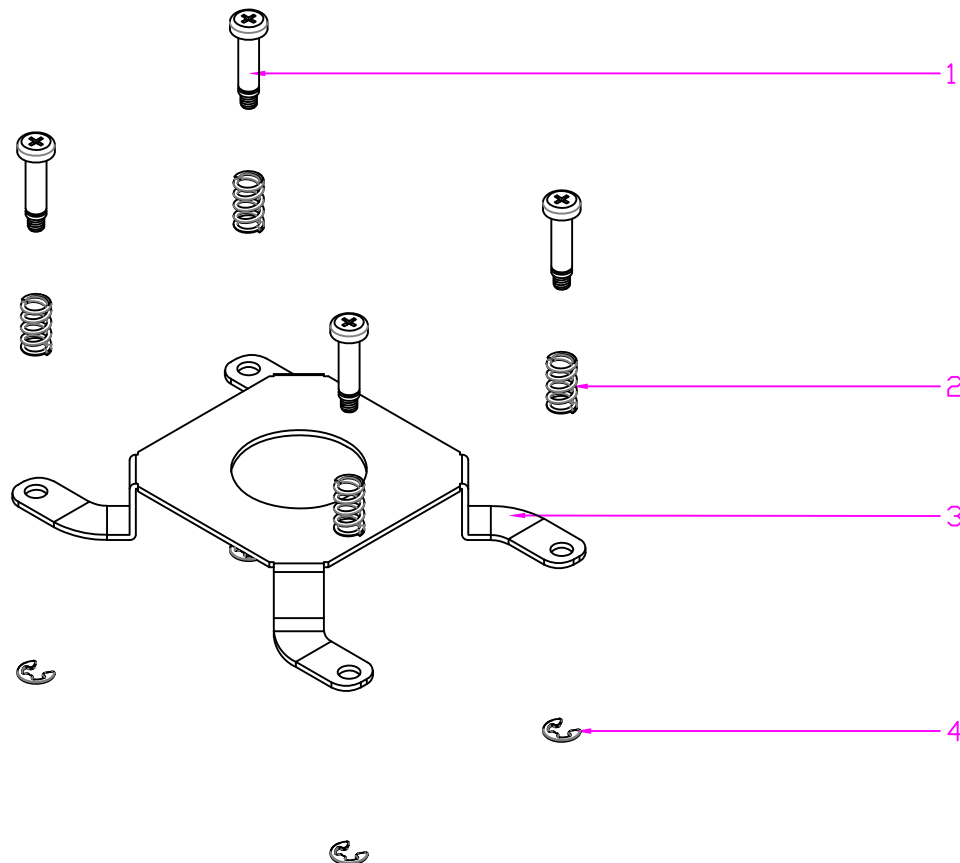
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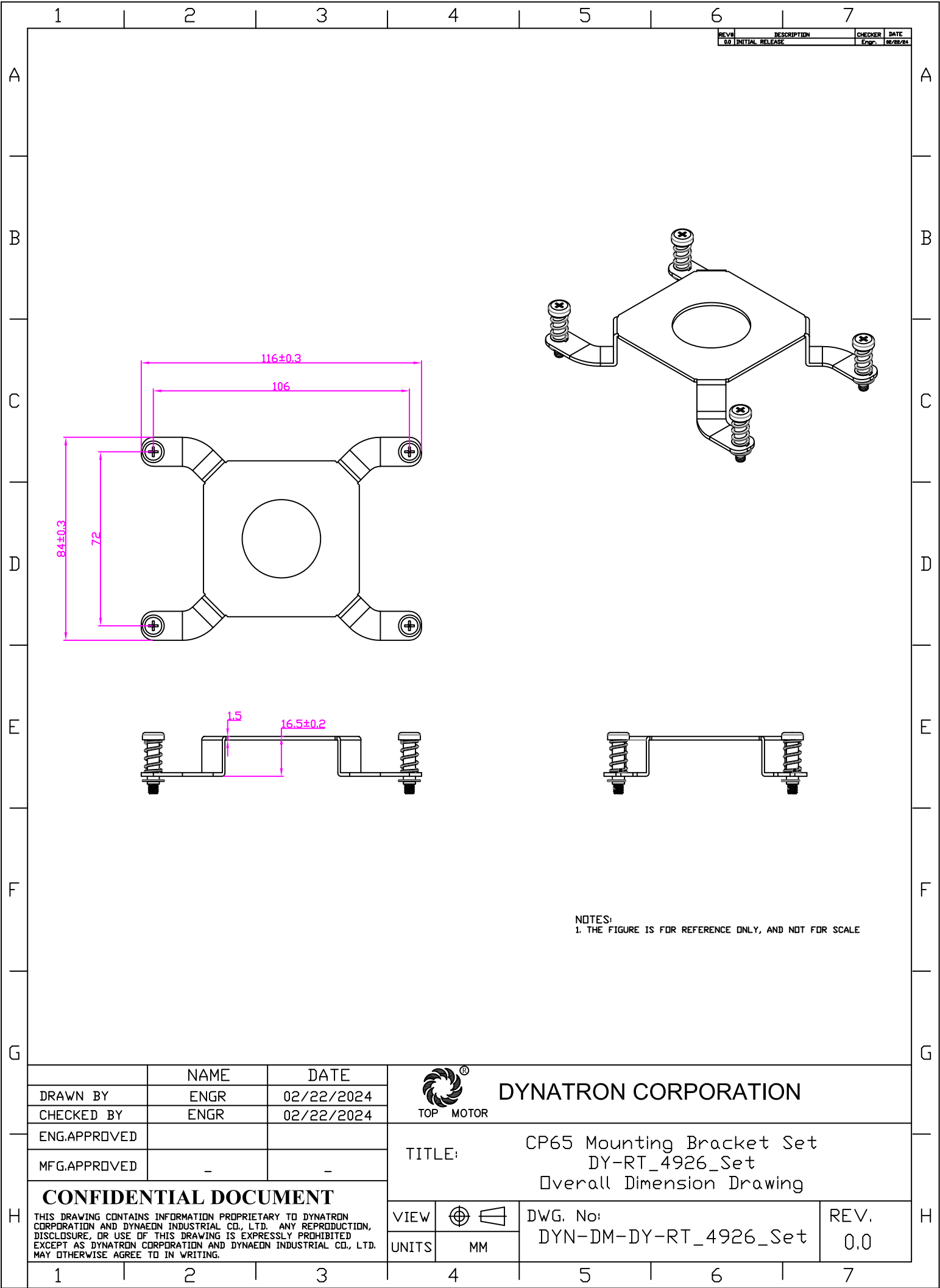
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0.0	INITIAL RELEASE	Engr.	02/22/24



4	C-CLIP	STEEL	4
3	CP65 MOUNTING BRACKET (LGA4926)	STEEL	1
2	MOUNTING SPRING	STEEL	4
1	MOUNTING SCREW	STEEL	4
ITEM #	DESCRIPTION	MATERIAL	QTY.
DATE 02/22/24 NAME Engr. TOP MOTOR DYNATRON CORPORATION			
DRAWN 02/22/24 CHECKED 02/22/24 ENG. APPR. MFG. APPR. QA			
COMMENTS DWG. No: DYN-EP-DY-RT_4926_Set REV 0.0			

NOTES:

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DYNATRON CORPORATION

TOP MOTOR TECHNOLOGY (HUIZHOU) CO, LTD

Specification for Approval

Customer:		
Model Number:	watercooler pump	
Part Number:		
Issued Date:	Wednesday, August 31, 2016	
Version:	A	
Customer Approval		
Approval:		Check:
Corporate Headquarters Dynatron Corporation 33200 Western Avenue Union City, CA 94587 U.S.A. Tel: 510-498-8888 Fax: 510-498-8488	Taipei Office (Taiwan, R.O.C.) 8F, No. 35, Lane:221 Gang Cian. Road, Taipei, Taiwan, R.O.C. Tel: 886-2-27995799 (Rep.) Fax: 886-2-2799-9577	Manufactory TOP MOTOR TECHNOLOGY(HUI ZHOU)CO,LTD Baishi Village, QiuchangTown, Huiyang Dist, HuizhouCity, Guangdong Province, P.R.China Tel: 86-752-822-8000 (Rep.) Fax: 86-752-822-8999
Approval:	Check:	Handler:
Simon Wang	-	Hui mei



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TOP MOTOR TECHNOLOGY (HUIZHOU) CO, LTD

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TOP MOTOR TECHNOLOGY (HUIZHOU) CO, LTD

1. SCOPE

This specification defines the electrical and mechanical characteristics of the ☐ AC / ☒ DC Brush Less (☒ Sleeve Bearing / ☐ 2-Balls Bearing) axial flow fan, which is carefully designed and manufactured for your special needs by Dynatron Corporation.

2.ELECTRICAL CHARACTERISTICS

Items		Description
1.	Rated Voltage	DC 12 V
2.	Start Voltage	DC 8 V
3.	Operating Voltage	10.2V~13.8V
4.	Flow Rate (minimal value)	1.7 LPM
5.	Input Current	0.25 A (Max)
6.	Input Power	3.0 W
7.	Speed	4000RPM $\pm 10\%$
8.	Insulation Resistance – Between Frame and Terminal	10 M ohm at DC 500 V
9.	Dielectric Strength – Between Frame and Terminal	5 mA (Max.) @ AC 500 V 60 Hz 1 min.
10.	Life – Continuous operating under normal temperature (40 °C or 104 °F)	50,000 hours
11.	Rotation	Counterclockwise Air Discharged
12.	Autorestart Time	3-5sec
13.	Lead Wires	UL 2468, awg 26 or Equivalent “-”: Black; “+”: Black; “s”: Black.
14.	Acoustical Noise	30.00dBA



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3. MECHANICAL CHARACTERISTICS

Items		Description
1.	Dimension	Display as Drawing
2.	Frame	PPS UL94V-0 (Black GP)
3.	Impeller	PPS UL94V-0 (Black GP)
4.	Bearing System	Ceramic Bearing
5.	Weight	56±5grams

4. ENVIRONMENTAL

Items		Description
1.	Operating Temperature	- 10 °C ~ + 65 °C (65 %RH)
2.	Storage Temperature	- 30 °C ~ + 70 °C (65 %RH)
3.	Vibration Test	Displacement Amplitude: 0.75mm(Equivalent 10G) Frequency Range: 10Hz<->55Hz/30SEC. Linear Scanning 120 Cycle Endurance Timer Per Axis: 30Min. Orientation:X,Y,Z.
4.	Drop Test	Motor withstands one free body drop from 30 cm in high onto 10 mm thickness of wooden board for each of the three faces in minimum packing condition.
5.	Acoustic Noise	30.00dBA – Curve (30.50Max) Measuring Condition – Under rated voltage in semi-anechoic chamber equipment sound level meter. (Figure A.)

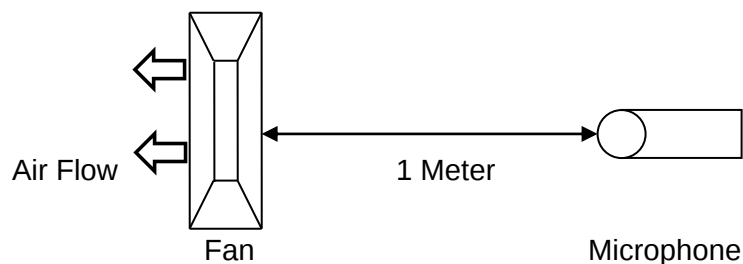


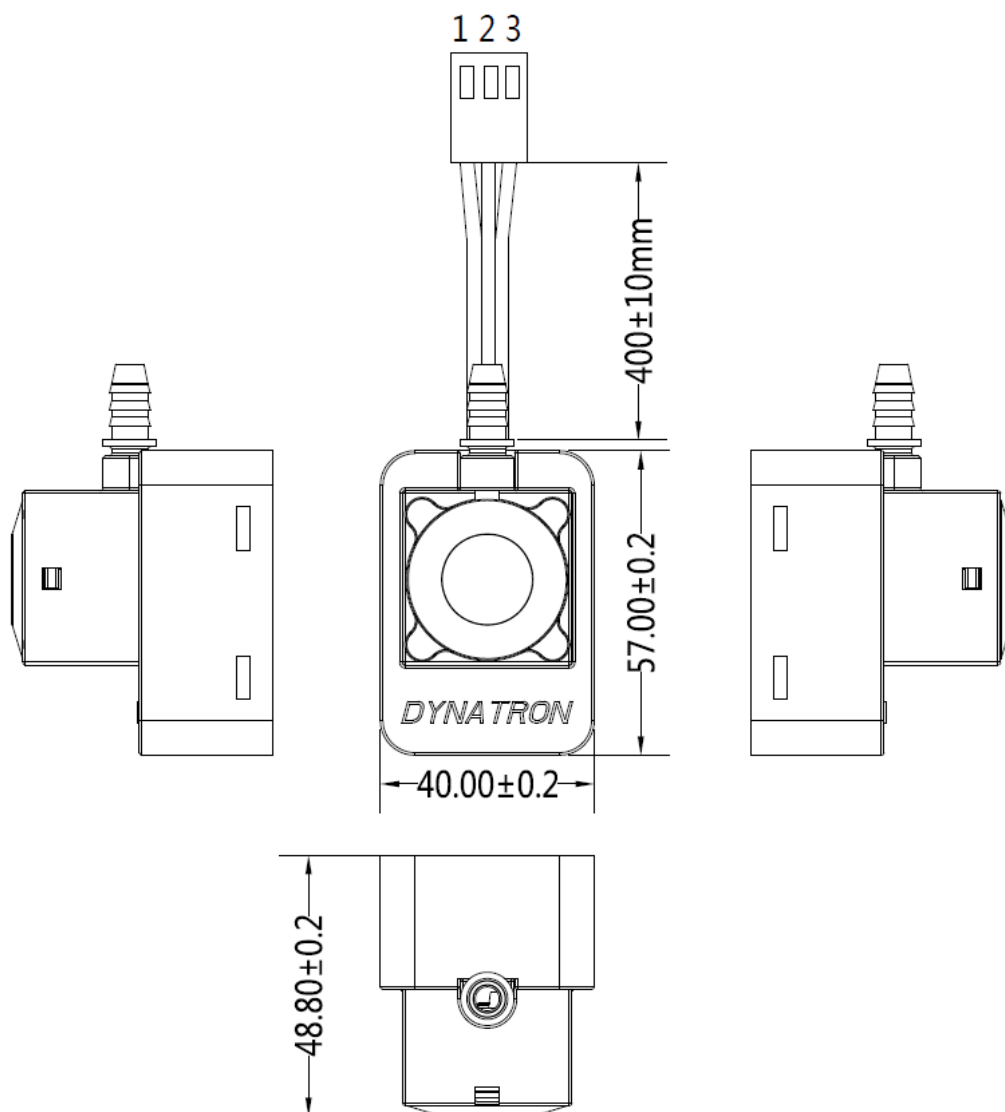
Figure A – Noise Level is measure at rated voltage in anechoic chamber in free air as above.



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DIMENSION:



1.Note:

1.Leed Wire:UL2468 #26AWG

PIN 1: Black Wire ----Ground

PIN 2: Black Wire ----Power

PIN 3: Black Wire ----Signal

2.Connector:2510-3P

Publication History:

02/22/2024: Initial Release

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