



# W2

3U Active Air Cooler

**PRODUCT SPECIFICATIONS**

Specification Version: 02/05/2024

*(Specifications are subject to change without notice)*

**W2 | LGA 4926**

## Model Number: W2

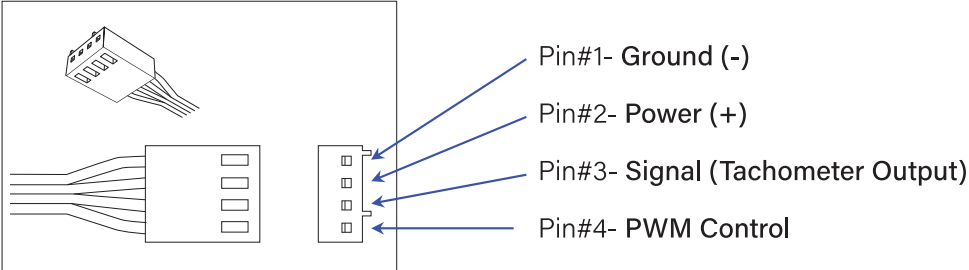
- Recommend for LGA 4926 Processor
- Active Air Cooler for 3U Server and Up

## Overall Specification

|                |   |
|----------------|---|
| Dimension      | 130.3 x 83.6 x 110.0 mm (LxWxH)                                   |
| Weight         | 767g ± 10g  |
| Material       | Aluminum + Direct Contact Heat Pipe Heatsink Base + Aluminum Fins |
| Thermal Grease | Shin-Etsu X23-8079-2 Pre-Printed                                  |
| TDP            | Fully Support 250W at 43°C Ambient Temperature                    |

## Cooling Fan Specification

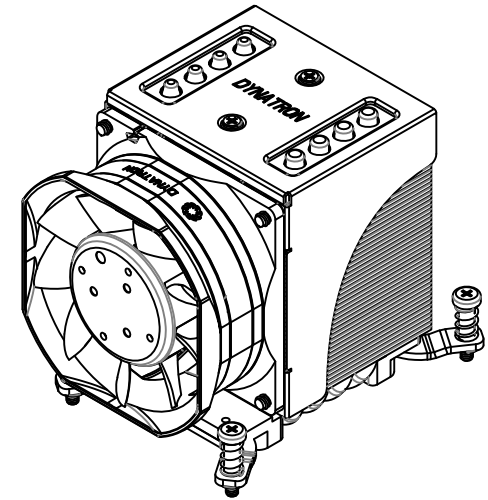
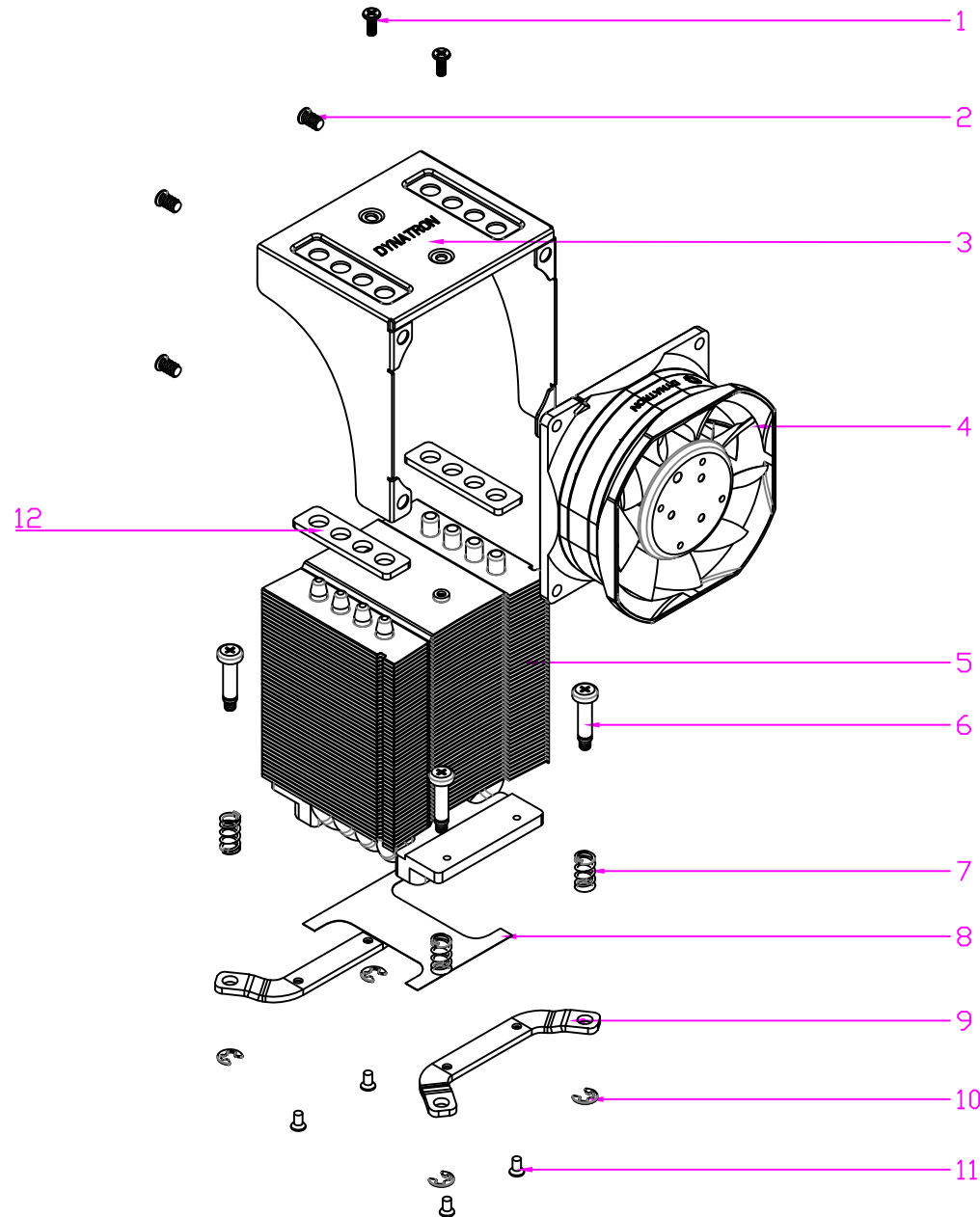
|                       |  |
|-----------------------|--|
| Model Number          | DF128038BX-E   |
| Dimension             | 80 x 80 x 38 mm  |
| Bearing               | Double Ball  |
| Rated Voltage         | DC 12V   |
| Rated Speed           | At Duty Cycle 0~20%: 2400± 200 RPM<br>At Duty Cycle 50%: 4800± 10% RPM<br>At Duty Cycle 100%: 8000±10% RPM                                   |
| Input Power           | At Duty Cycle 0~20%: 1.2 W<br>At Duty Cycle 50%: 5.52 W<br>At Duty Cycle 100%: 24.72 W   |
| Maximum Airflow       | At Duty Cycle 0~20%: 32.52 CFM<br>At Duty Cycle 50%: 67.24 CFM<br>At Duty Cycle 100%: 115.61 CFM   |
| Rated Static Pressure | At Duty Cycle 0~20%: 3.45 mm-H <sub>2</sub> O<br>At Duty Cycle 50%: 13.6 mm-H <sub>2</sub> O<br>At Duty Cycle 100%: 38.3 mm-H <sub>2</sub> O |
| Acoustical Noise      | At Duty Cycle 0~20%: 25.63 dBA<br>At Duty Cycle 50%: 47.85 dBA<br>At Duty Cycle 100%: 64.40 dBA  |
| Lead Wire Pin Out     | Pin#1- Black(-)<br>Pin#2- Yellow(+)<br>Pin#3- Green(Tachometer/ Signal Output)<br>Pin#4- Blue (PWM)  |




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| REV# | DESCRIPTION     | CHECKER | DATE     |
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| 0.0  | INITIAL RELEASE | Engr.   | 12/27/23 |



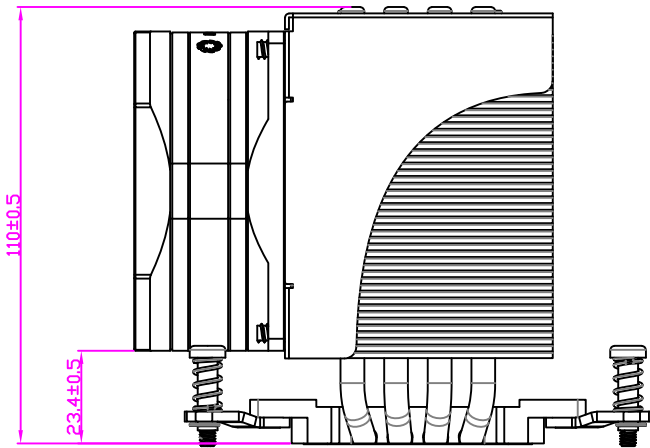
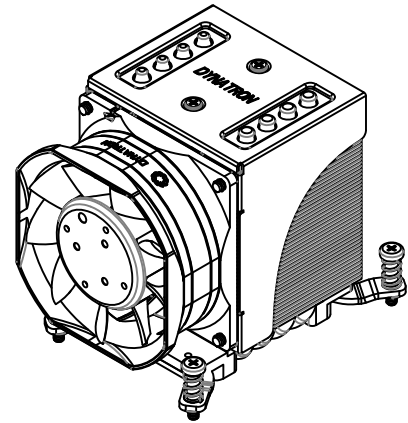
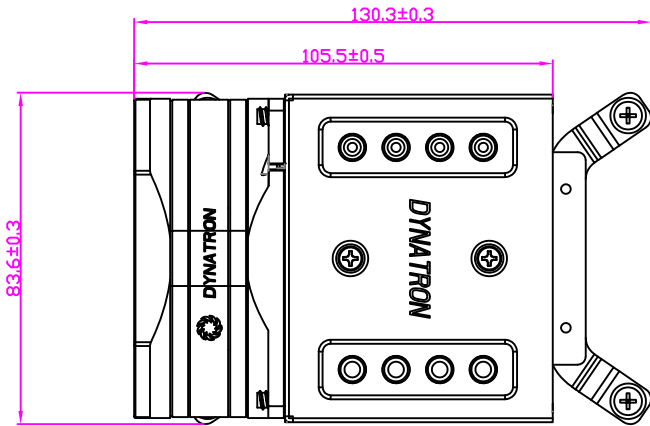
| 12     | FAN BRACKET GASKET              | /                                   | 2    |
|--------|---------------------------------|-------------------------------------|------|
| 11     | HEATSINK MOUNTING BRACKET SCREW | M3x6, STEEL                         | 4    |
| 10     | C-CLIP                          | STEEL                               | 4    |
| 9      | HEATSINK MOUNTING BRACKET       | SK7                                 | 2    |
| 8      | THERMAL GREASE                  | SHIN ETSU X23-8079-2                | N/A  |
| 7      | HEATSINK SPRING                 | SWC                                 | 4    |
| 6      | HEATSINK SCREW                  | C1018                               | 4    |
| 5      | HEATSINK                        | HEAT PIPES, AL6063 BASE, AL1100 FIN | 1    |
| 4      | FAN, DF12B038BX-PWMG, 8000RPM   | PLASTIC                             | 1    |
| 3      | FAN BRACKET                     | SPCC                                | 1    |
| 2      | FAN SCREW                       | STEEL                               | 4    |
| 1      | FAN BRACKET MOUNTING SCREW      | M3, STEEL                           | 2    |
| ITEM # | DESCRIPTION                     | MATERIAL                            | QTY. |

|            |          |       |   |
|------------|----------|-------|---|
|            | DATE     | NAME  | <br>DYNATRON CORPORATION<br>TITLE:<br>3U Active Air Cooler W2<br>BOM & Exploded Assembly Drawing |
| DRAWN      | 12/27/23 | Engr. |   |
| CHECKED    | 12/27/23 | Engr. |   |
| ENG. APPR. |          |       |   |
| MFG. APPR. |          |       |   |
| QA         |          |       | DWG. No:<br>DYN-EP-W2   |
| COMMENTS   |          |       | REV<br>0.0  |

**NOTES:**

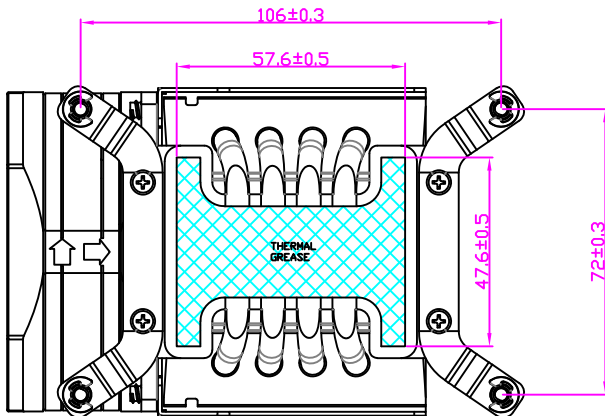
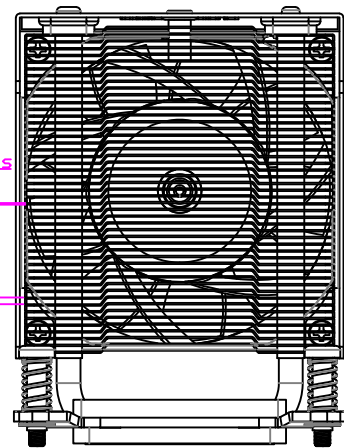
1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

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0.4 Fin Thickness

1.7 Fin Pitch



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

|              | NAME | DATE       |
|--------------|------|------------|
| DRAWN BY     | ENGR | 12/27/2023 |
| CHECKED BY   | ENGR | 12/27/2023 |
| ENG.APPROVED |      |            |
| MFG.APPROVED | -    | -          |



**DYNATRON CORPORATION**

TITLE:

3U Active Air Cooler W2  
Overall Dimension Drawing

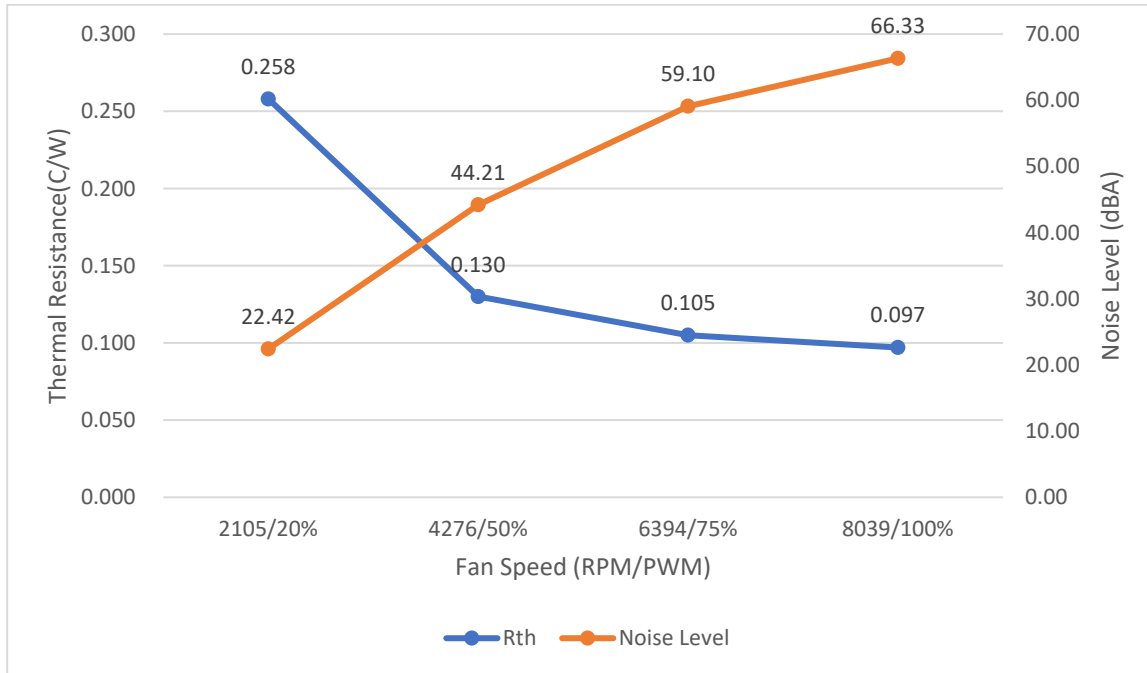
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|       |    |           |      |
|-------|----|-----------|------|
| VIEW  |    | DWG. No:  | REV. |
| UNITS | MM | DYN-DM-W1 | 0.0  |

## Performance Chart: Passive Cooler W2 Thermal Resistance

### Thermal Resistance vs. Fan Speed



## Publication History:

02/05/2024: Add Thermal Performance Chart

01/17/2024: Cooling Fan Specification and Cooler Weight Update

12/27/2023: Initial Release

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