SPECIFICATION FOR APPROVAL

Customer :	
Customer Part No:	
Description:	Brushless DC water pump
JARO Model No:	JSP455224TG01 **REV:** 0
Sample Issue No:	
Sample Issue Date :	
Specification Status:	V **Preliminary** ___ **Formal**

PLEASE SEND ONE COPY OF THIS SPECIFICATION BACK AFTER YOU SIGNED APPROVAL FOR PRODUCTION PRE-ARRANGEMENT.

APPROVED BY CUSTOMER:_____

DATE :_____

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PREPARED BY :	**Franco Huang**	**DATE :**	**04/30/2026**
CHECKED BY :	**Chris Hsu**	**DATE :**	**04/30/2026**
APPROVED BY :	**Chris Hsu**	**DATE :**	**04/30/2026**

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JARO MODEL NUMBER
JSP455224TG01

Revision of Spec History

Revision	Change Content	Change page	DATE	BY
0	Created SPEC		04/30/2026	Franco Huang

Notice:

1. This specification will be changed based on Jaro Thermal ‘s notification. Please refer to update revision of spec by contacting Jaro Thermal.

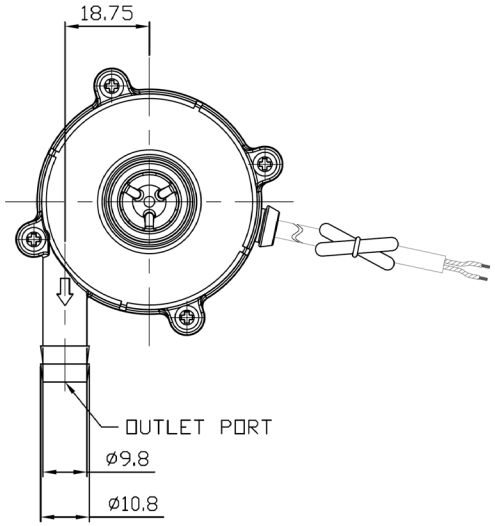
2. This specification clarify all the mechanical & electrical characteristics of DC brushless fans & AC brushless fans & heat sink.

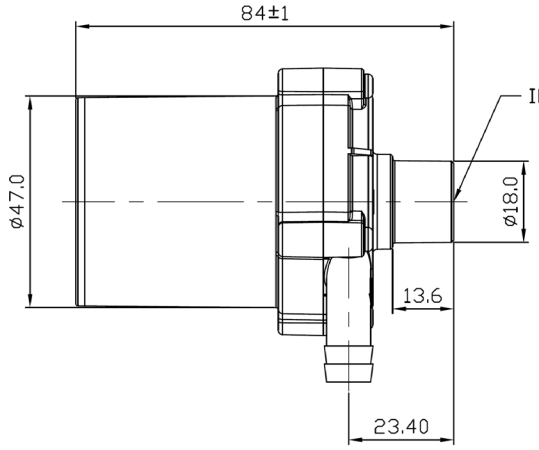
3. The specification of this product is described in detailed document. Please do not use the fan without proper usage. Please contact Jaro Thermal if you have special requirement which is not listed on this specification.

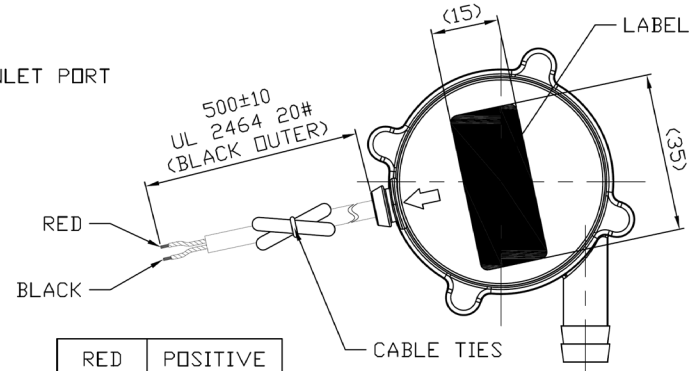
4. Any of change, please contact Jaro Thermal to change the new revision in order to make sure all technical data is up to date. Any ECN change will be followed by sending new update specification.

1. Water pump drawing

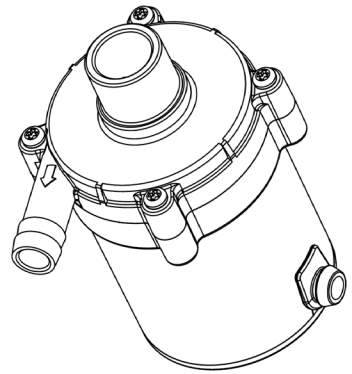
REVISIONS			
REV.	COMMENT	DATE	APPROVED
0	INITIAL RELEASE	2026-04-30	CHRIS







RED	POSITIVE
BLACK	NEGATIVE



ISOMETRIC VIEW
SCALE 1:1

1. BASIC PERFORMANCE
A) RATED VOLTAGE: DC 24V
B) OPERATING VOLTAGE RANGE: 12 ~ 30V
C) RATED CURRENT: 1.1 ± 15% A
D) INPUT POWER: 28W
E) MAXIMUM FLOW RATE: ⩾ 11 L/MIN
F) MAXIMUM HEAD: ⩾ 11M
D) NOISE: ≤ 40dBA @ 1M

2. APPLICATION SCOPE
A) AMBIENT TEMPERATURE: -20 ~ 50°C
B) AMBIENT HUMIDITY: < 90% RH
C) SOLUTION: CLEAR WATER
D) LIQUID TEMPERATURE: 0 ~ 50°C
E) PLACE: AVOID DIRECT SUNLIGHT AND UV RAYS.

DIMENSIONAL TOLERANCE		
DECIMAL PLACES	MILLIMETERS	INCHES
.	± 0.50	-
.X	± 0.30	-
.XX	± 0.20	-
UNLESS OTHERWISE SPECIFIED		
ANGULAR DIMENSIONS	THIRD ANGLE PROJECTION	
± 1.0°		
SCALE 1:1	UNIT mm	SIZE A3

DRAWN	FRANCO
CHECKED	CHRIS
APPROVED	CHRIS
TITLE	BRUSHLESS DC WATER PUMP
MATERIAL	PA (MAIN BODY)
COLOR	BLACK
CUS. PART NO.	CUS. REV.
PART NO.	JSP455224TG01
REV.	0
SHEET	1 OF 1
DATE	2026-04-30

JARO THERMAL

2. Installation Instruction

1) Permitted installation position: Other available installation locations inside the chiller.

- The installation position must prevent water from accumulating on the surface of the connector or inside the connector.
- As shown in the Figure 1 below, during installation it must be ensured that the minimum operating liquid level is above the highest point of the pump chamber.

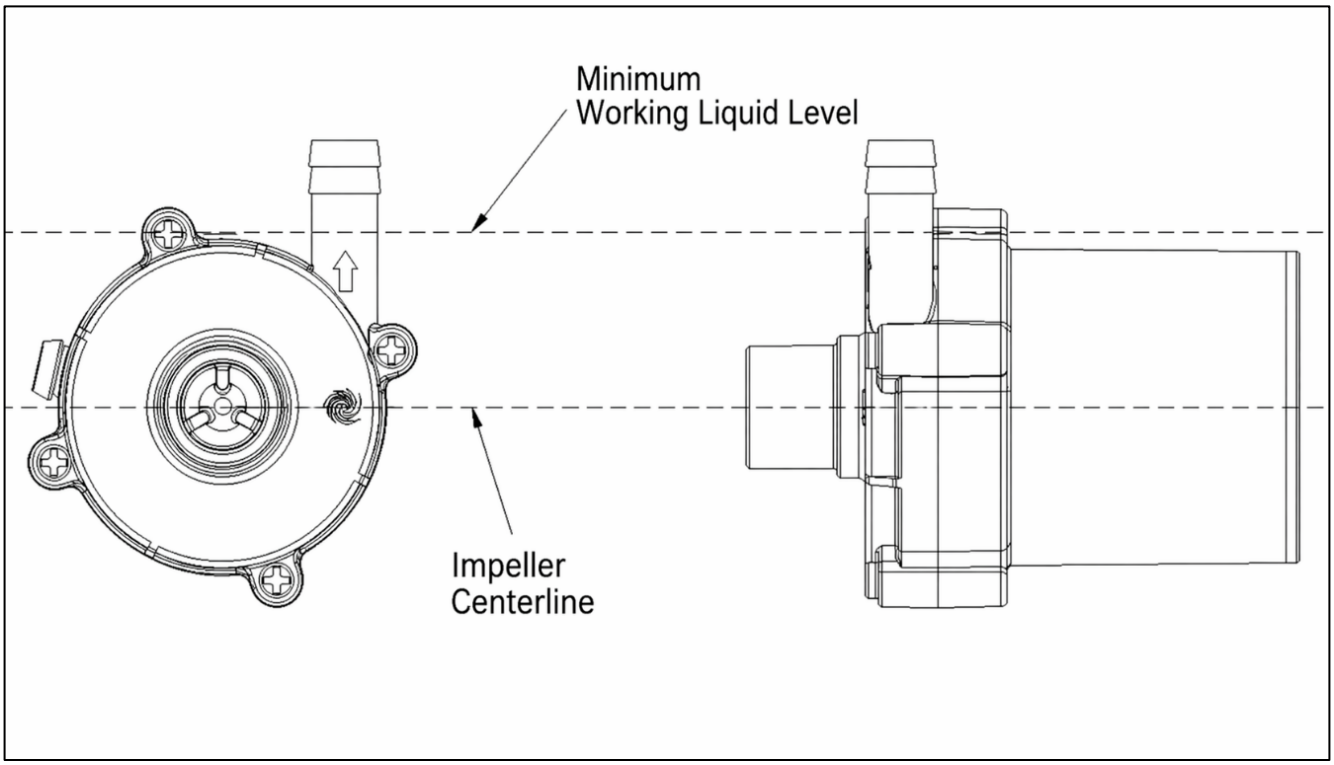


Figure 1

2) The water pump installation should avoid having the inlet facing downward (inverted condition). The installation angle inside the chiller shall follow the requirements shown in Figure 2.

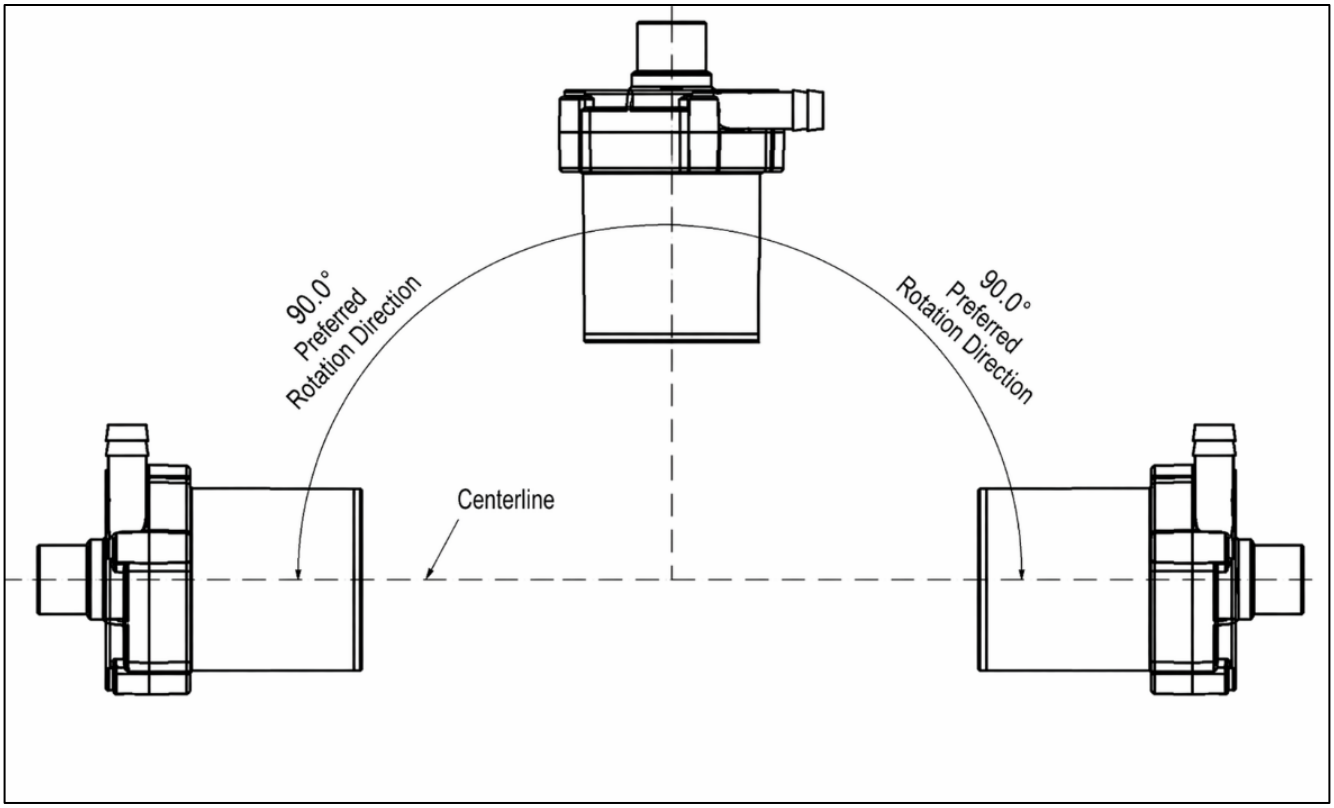


Figure 2

① The fixed position of the water pump must take vibration and noise requirements into account.
② The wire harness must be secured to prevent relative movement between the harness and the pump connector.
③ No other parts are allowed to be mounted on the pump or its bracket.
④ The installation angle of the water pump shall follow the air-venting-friendly angle recommended in Figure 2 to avoid performance degradation.