Manuals+ — User Manuals Simplified.

ENERMAX ELC-AQFA360-SQA Addressable RGB AIO Cooler User Manual

ENERMAX

AQUAFUSION ADV

Addressable RGB AIO Cooler

120|240|360 mm

Contents

Limited Warranty

Please read this limited warranty carefully. Warranty is subject to void under following criteria:

1. The serial number label or warranty seal is defaced, modified, or removed.
2. Taking apart of the product and/or modification of any component or cable without ENERMAX's written authorization.
3. Ignoring connector's faulty-insertion-prevention design by attaching a connector to a device under incorrect orientation.
4. Damage caused by natural phenomena or uncontrollable forces, such as lightning, flooding, fire, earthquake, or misuse, abuse, negligence, accident, wear and tear, mishandling, misapplication.
5. ENERMAX is only liable for limited warranty service of ENERMAX product. ENERMAX is not liable for other damage or loss of time, interest, commercial opportunity due to using defect product of ENERMAX.

This ENERMAX Technology Corporation product is warranted to be free from defects in material and workmanship for a period of two (2) years from the date of purchase.
ENERMAX Technology Corporation agrees to repair or replace the product, at its own option and at no charge, if, during the warranty period, it is returned to nearest ENERMAX Technology Corporation subsidiary/agent with all shipping charges prepaid and if inspection reveals that the product is defective. Please present the proof of purchase for requesting RMA. Charges for removing or installing the product are excluded under the terms of this warranty agreement. This warranty shall not apply to any product, which has been subject to connection to a faulty power source, alteration, negligence, or accident, or to any product, which has been installed other than in accordance with these instructions. In no event shall ENERMAX Technology Corporation, or its subsidiaries, or agents be liable for damages for a breach of warranty in an amount exceeding the purchase price of this product.

If you are uncertain whether or not your ENERMAX liquid cooler is defective, please contact your dealer/reseller for support!
Web Site: **http://www.enermax.com**
E-mail: **enermax@enermax.com.tw**

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Warranty & Support information For Australia

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.

You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage.

You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major falure. Please read the above limited warranty. This warranty is valid only for the ENERMAX products distributed by authorized dealer(s) in Australia.

Please contact ENERMAX for warranty and support information.

ENERMAX Technology Corporation 2F-1, No. 888, Jing-Guo Road, Taoyuan City (330) Tel. +886-3-316-1675

Web Site: **http://www.enermax.com**

E-mail: **enermax@enermax.com.tw**

This ENERMAX liquid cooler is warranted to be free from defects in material and workmanship for period stats in two(2) years. ENERMAX Technology Corporation agrees to repair or replace the product, at its own option and at no charge, if during the warranty perod, it is returned to nearest ENERMAX Technology Corporation subsidiary/agent with all shipping charges prepaid and bearing a return merchandize authorzation (RMA) number, and if inspection reveals that the product is defective. Charges for removing or installing the product are excluded under the terms of this warranty agreement. This warranty shall not apply to any product, which has been subject to connection to a faulty power source, alteration, negligence, or accident, or to any product, which has been installed other than in accordance with these instructions. In no event shall ENERMAX Technology Corporation, or its subsidiaries, or agents be liable for damages for a breach of warranty in an amount exceeding the purchase price of this product!

Unless stated in the manual, the standard product warranty period is described in two(2) years.

If the goods is found defective within the period of warranty from the date of purchase, please contact ENERMAX or your purchased retail shop/agent.

Please note that proof of purchase would be required when request the RMA.

Specification

Model	ELC-AQFAl20-SQA ELC-AGFAl20-SQA-W	ELC-AQFA240-SQA ELC-AQFA240-SQA-W	ELC-AQFA360-SQA ELC-AQFA360-SQA-W
CPU socket	Intel* LGA 1700/1200/115)0066/2011/2011-3/1366 AMD® AmS/Am4/Am3+/Fm2+/Fm1		
Radiator Dimension	154 x 120 x 27mm	274 x 120 x 27 mm	394 x 120 x 27mm
Tube Length	400mm		
Material	Cold Plate	Copper	
	Radiator	Aluminum	
	Tube	Rubber	
Pump	Bearing	Ceramic Bearing	
	MTBF	50,000 hrs	
	Rated Voltage	12V	
	Rated Current	0.7A	
	Rated Current – RGB LED	0.42A (SV)	
Fan	Dimension	120 x 120 x 26 mm	
	MTTF	1' 100,000 hrs	
	Speed	500-2000 rpm	
	Rated Voltage	12V	
	Rated Current	0.38A	
	Rated Current -RGB LED	1.08A (SV)	
	Air Flow	39-79.8 CFM	
	Static Pressure	0.67-3.6 mm-H20	
	Noise Level	15-32.6 dBA	
	Connector	4 Pin PWM + 3 Pin RGB (W/ extension adapter)	
Thermal Grease		Dow Corning® TC-5121C	

* Some motherboard put the capacitors around the boarder of CPU bracket, please carefully install the cooler on can avoid the mechanical interference.

Part List

120

A Cooler x 1
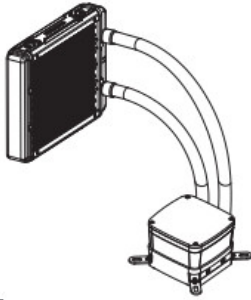
B Fan x 1

C Intel Back Plate x 1

D Position Screw x 4
(for Intel LGA1200/115x/1366)

E LGA1700 Position Screw x 4

F Stand-off x 4

G Case Screw x 8

H Fan Screw x 8

I Intel LGA 2011/2011-3/2066 Screw x 4

J Spring Screw x 4

K Washer x 4

L Intel Clip x 1

M AMD Clip x 1

N Bracket Screw x 4

O Thermal Grease x 1

P SATA Adapter x 1

Q RGB Control Box x 1

R RGB Sync Cable x 1

S RGB Control Power Cable (SATA) x 1

T GIGABYTE RGB Adapter

G
D
5V

U 2-in-1 RGB Adapter x 1

V AMD Screw x 4

Part List 240

A	Cooler x 1	B	Fan x 2	C	Intel Back Plate x 1	D	Position Screw x 4
							(for Intel LGA1200/115x/1366)

E	LGA1700 Position Screw x 4	F	Stand-off x 4	G	Case Screw x 8	H	Fan Screw x 8

I	Intel LGA 2011/2011-3/2066 Screw x 4	J	Spring Screw x 4	K	Washer x 4	L	Intel Clip x 1

M	AMD Clip x 1	N	Bracket Screw x 4	O	Thermal Grease x 1	P	PWM Y Cable x 1

Q	SATA Adapter x 1	R	RGB Control Box x 1	S	RGB Sync Cable x 1	T	RGB Control Power Cable (SATA) x 1

U	GIGABYTE RGB Adapter	V	2-in-1 RGB Adapter x 1	W	AMD Screw x 4

G
D
5V

Part List 360

A Cooler x 1　　　　**B** Fan x 3　　**C** Intel Back Plate x 1　　**D** Position Screw x 4
(for Intel LGA1200/115x/1366)

E LGA1700
Position Screw x 4　　**F** Stand-off x 4　　**G** Case Screw x 12　　**H** Fan Screw x 12

I Intel LGA
2011/2011-3/2066
Screw x 4　　**J** Spring Screw x 4　　**K** Washer x 4　　**L** Intel Clip x 1

M AMD Clip x 1　　**N** Bracket Screw x 4　　**O** Thermal Grease x 1　　**P** PWM Y cable x 1

Q SATA Adapter x 1　　**R** RGB Control
Box x 1　　**S** RGB Sync Cable x 1　　**T** RGB Control Power
Cable (SATA) x 1

U GIGABYTE RGB Adapter　　**V** 2-in-1 RGB Adapter x 1　　**W** AMD Screw x 4

Intel Installation

Before Install

Install the Intel clip to the pump.

Step 1
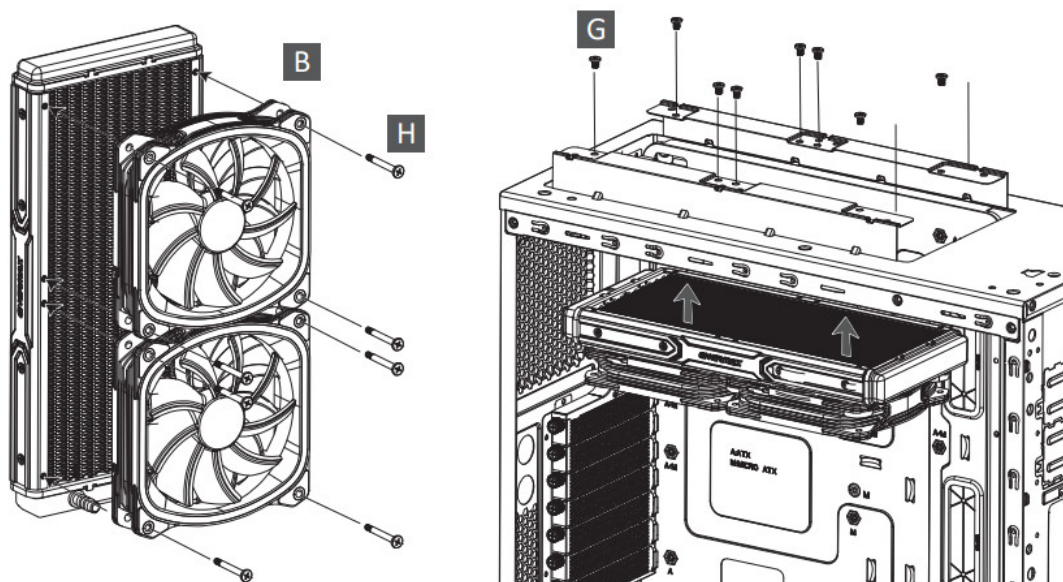
Attach the fan and the radiator to the chassis.

Step 2-1 LGA1200/115X/1366

LGA1366
LGA1200/115X

K

C

D
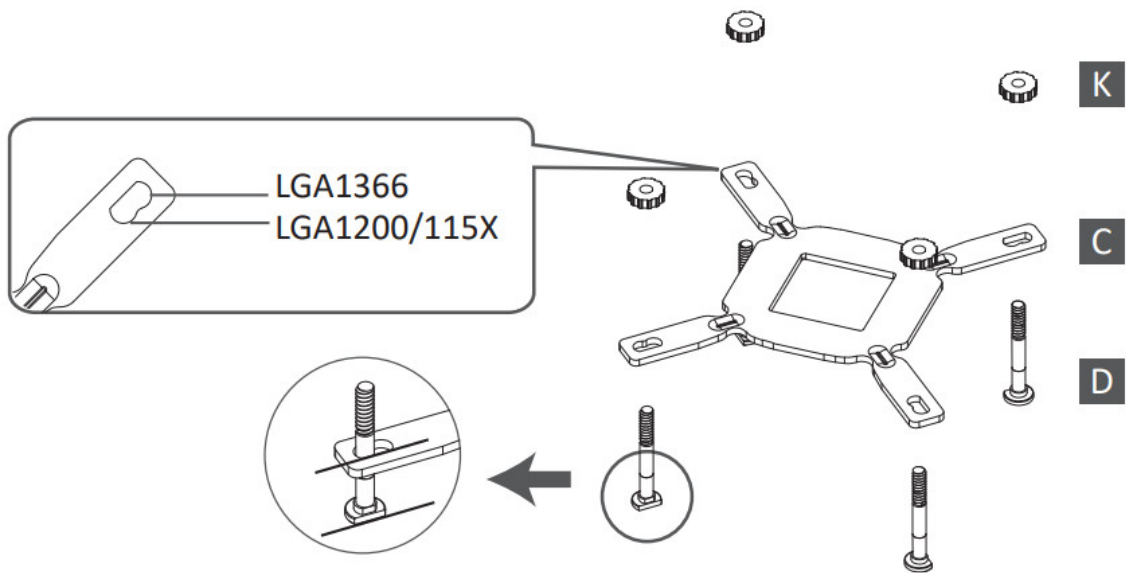
Insert the position screws into the proper holes on the back plate. Then use the washers to fix the position screws.
 If your CPU platorm is Intel 1700, please skip to step 2-2
 If your CPU platorm is Intel 2011/2011-3/2066, please skip to step 3-2

Step 2-2

✻ LGA1700

LGA1700

K

C

E
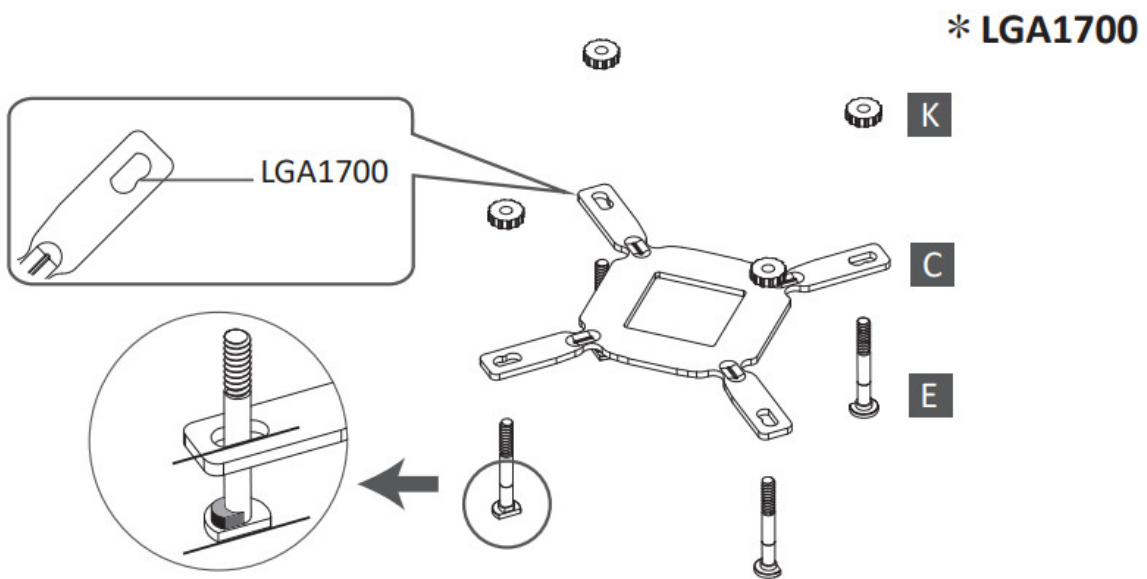
Insert the LGA1700 position screws into the proper holes on the back plate.
Then use the washers to fix the position screws.

Step 3-1

 LGA1700/1200/115X/1366
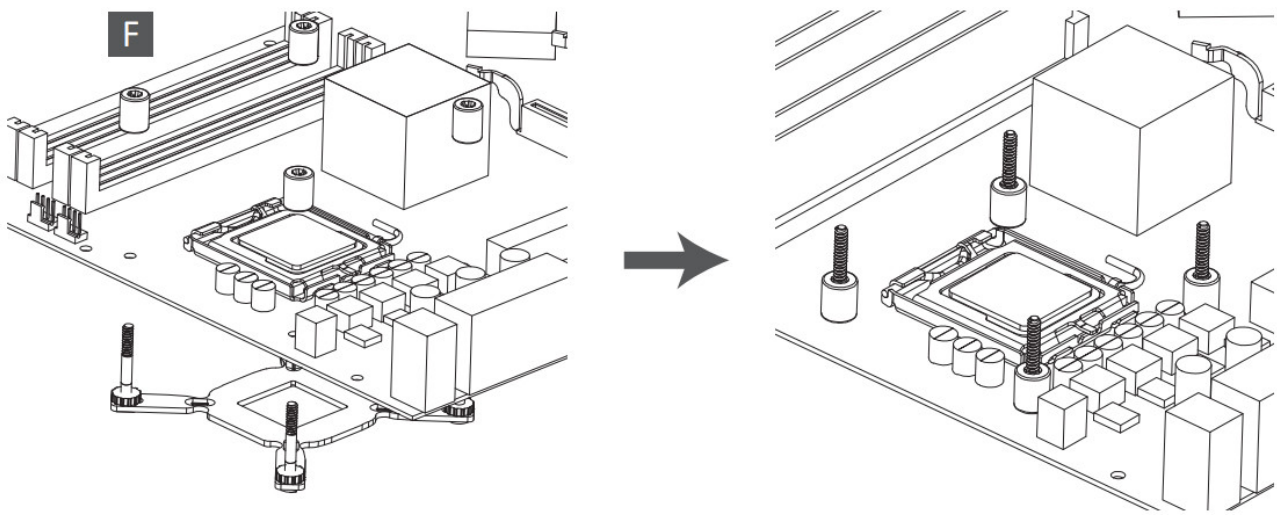
Install the Intel back plate on to the back of motherboard; fix the back plate with the stand-off.

Step 3-2

Intel LGA 2011/2011-3/2066
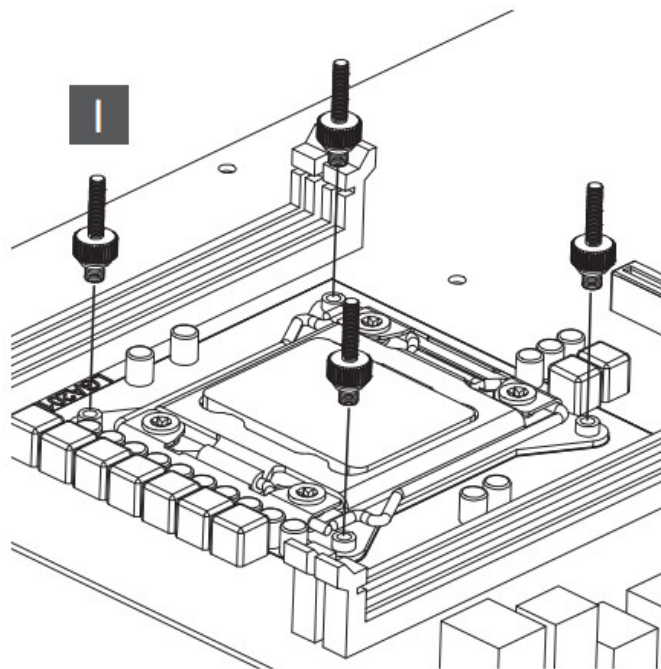
Tighten the Intel LGA2011/2011-3/2066 screw to the motherboard.
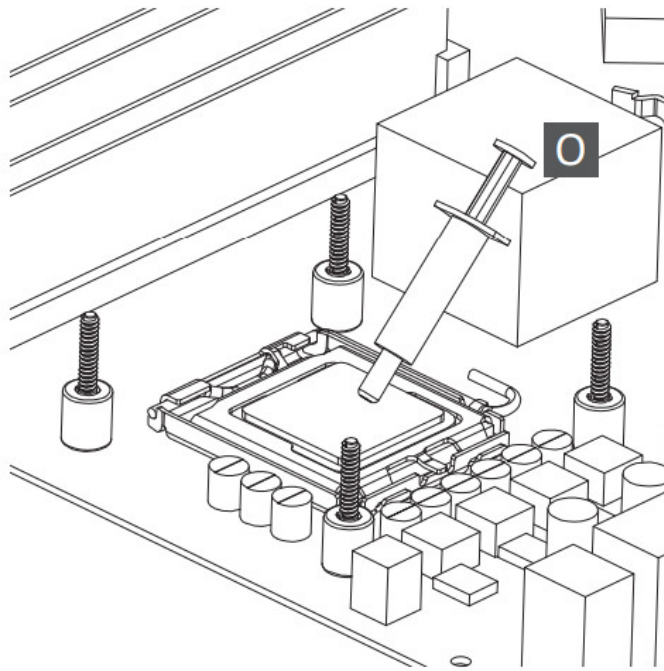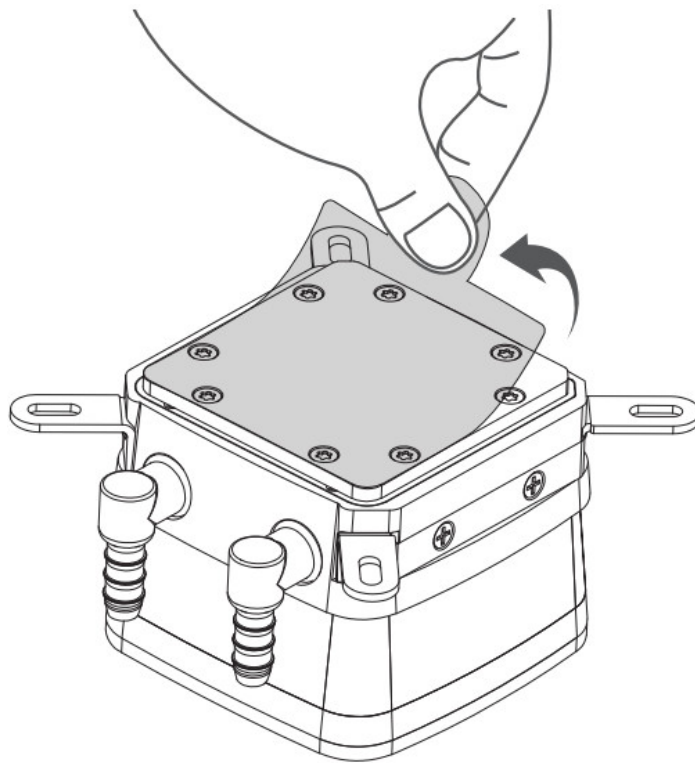
Step 4

Apply the thermal grease evenly on the CPU surface..

Step 5

Remove the protect film from the cold-plate.

Step 6

Place the pump on the CPU and tighten the spring screws until all four corners are secured.

Step 7

Connect the pump power connector to the motherboard.
Notice: If you recognize that your mainboard's CPU fan or PWM sockets do not provide enough voltage to power the pump, please use the included SATA adaptor and connect the pump directly to your PSU.

Step 8
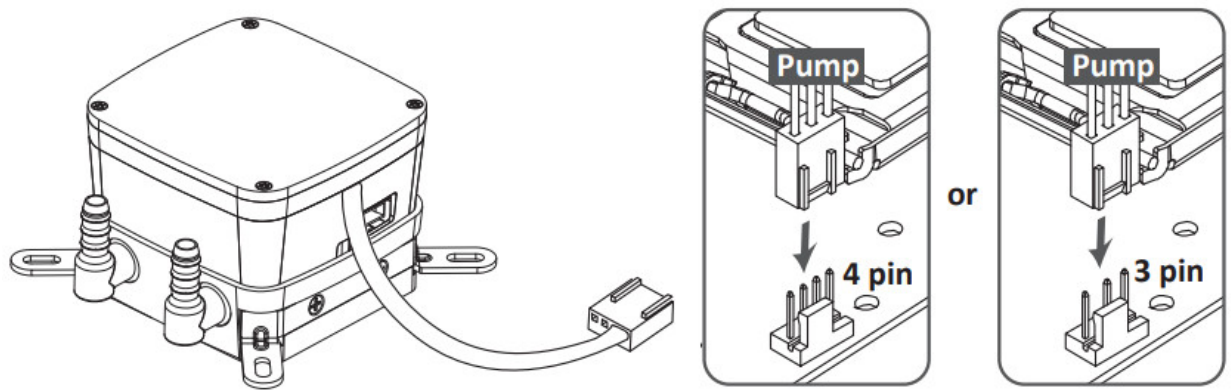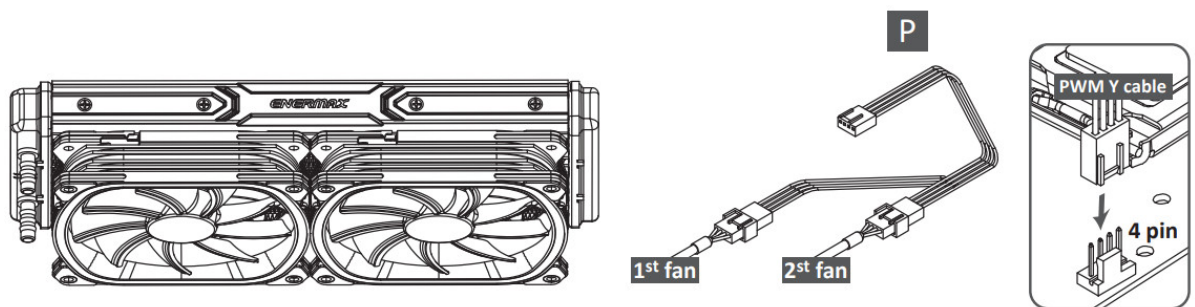
Connect the fan connector to the motherboard.

AMD Installation

Before Install
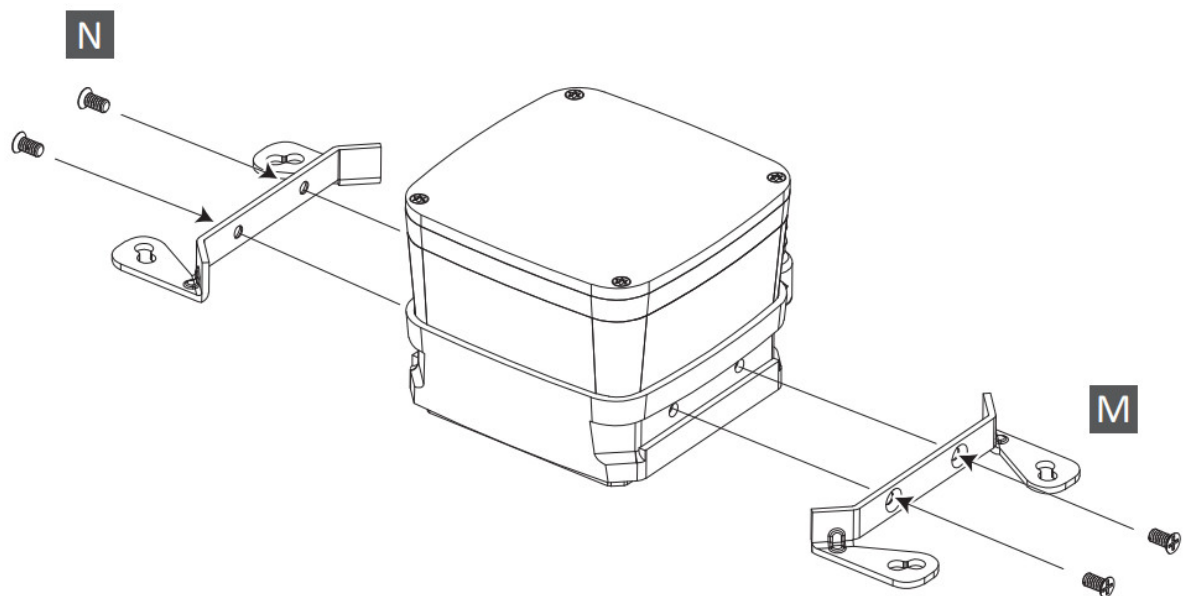
Install the AMD clip to the pump.

Step 1
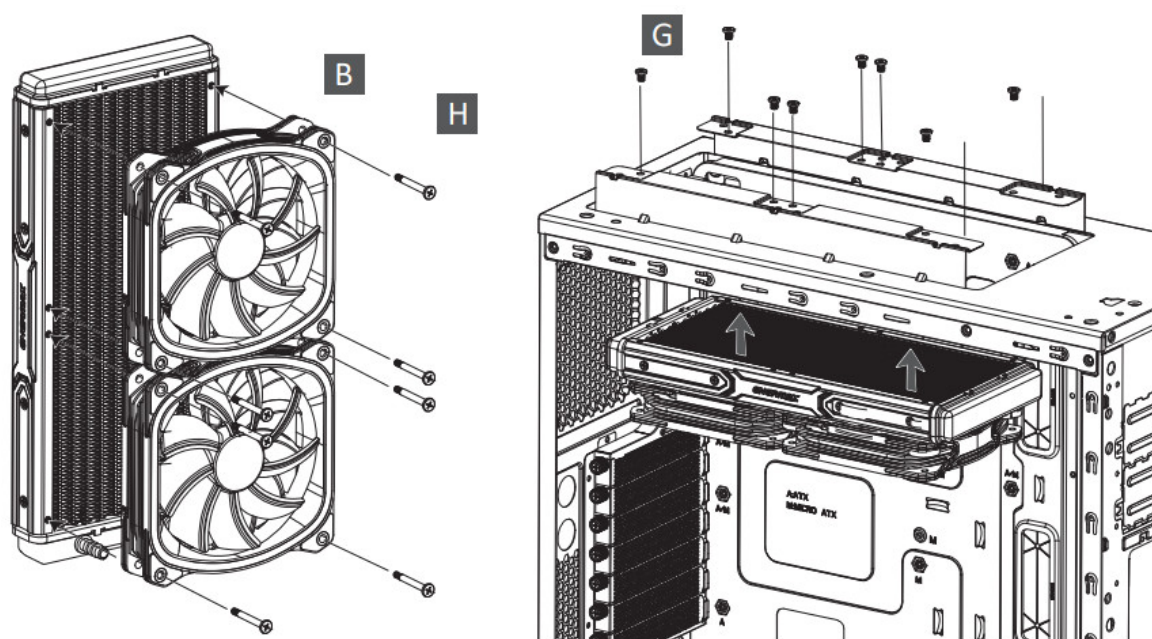
Attach the fan and the radiator to the chassis.

Step 2
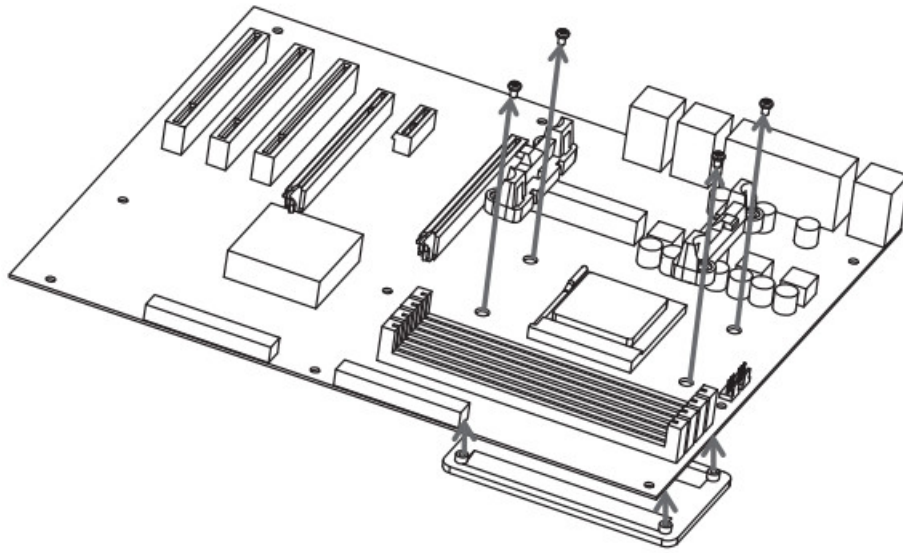
Remove the original screws and place the back plate back into position.

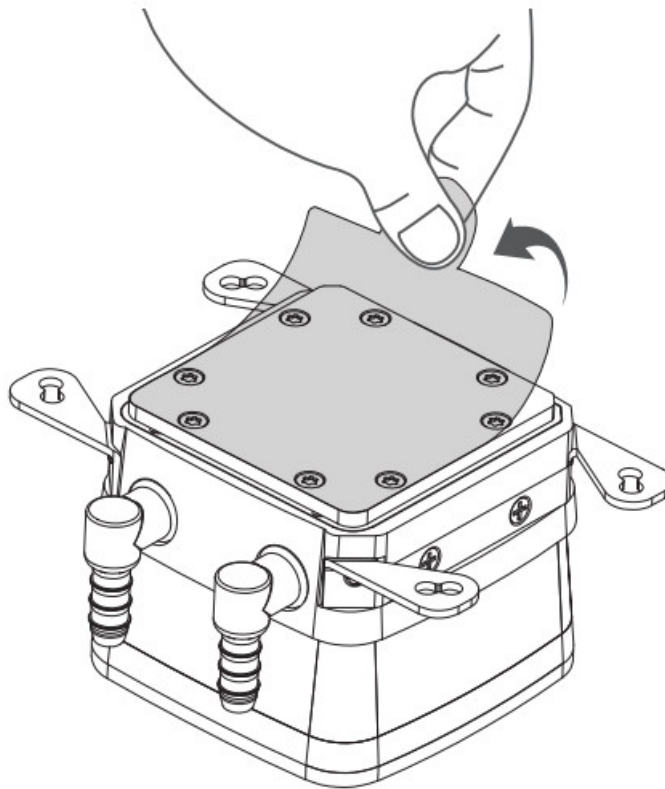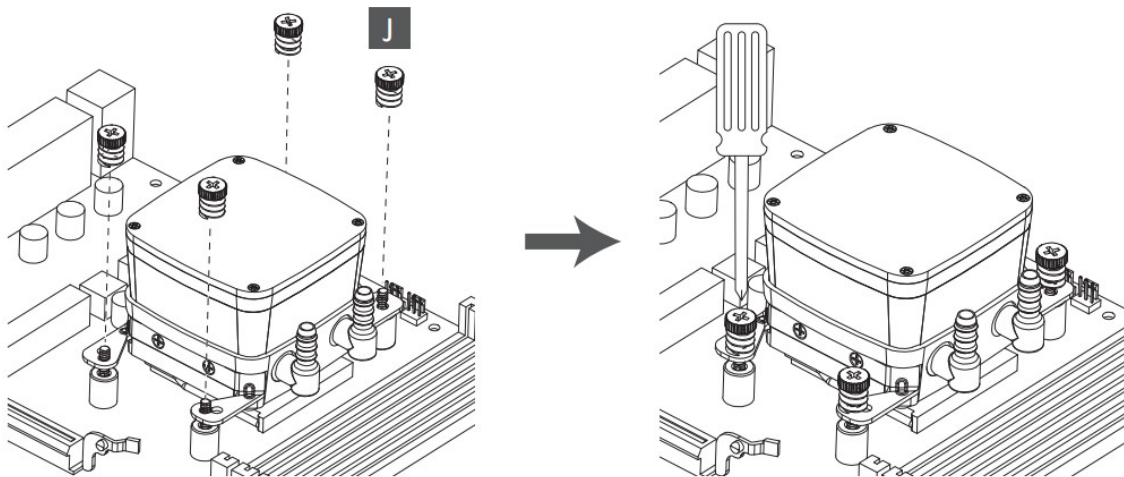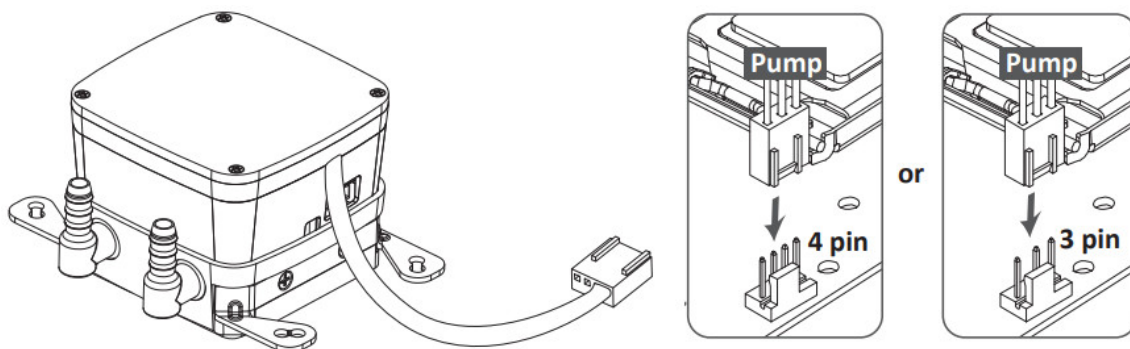**Step 3**

| V | 120mm |
| W | 240mm / 360mm |
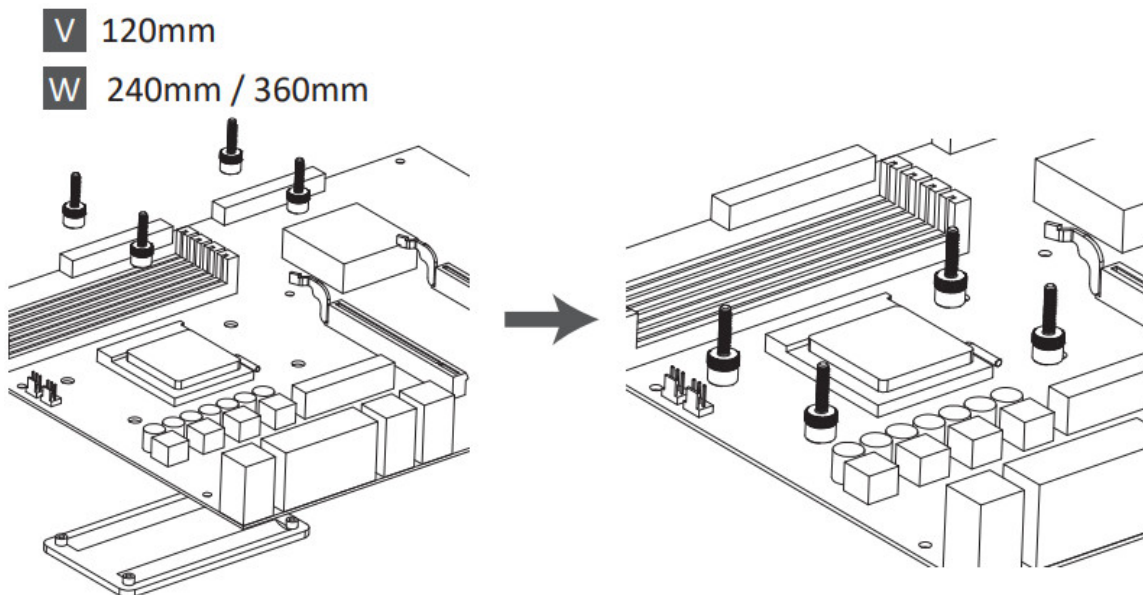
Tighten the AMD screw to the AMD stock back plate(included with the motherboard).

Step 4
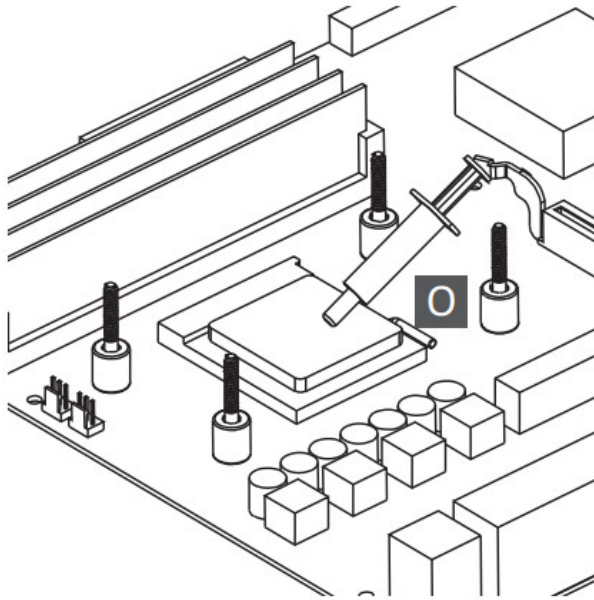
Apply the thermal grease evenly on the CPU surface.

Step 5

Remove the protect film from the cold-plate.

Step 6

Place the pump on the CPU and tighten the spring screws until all four corners are secured.
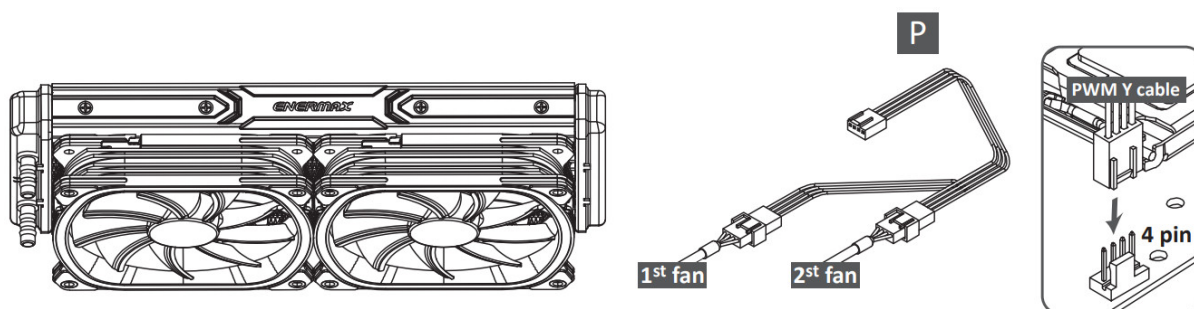
Step 7

Connect the pump power connector to the motherboard.
Notice: If you recognize that your mainboard's CPU fan or PWM sockets do not provide enough voltage to power the pump, please use the included SATA adaptor and connect the pump directly to your PSU.
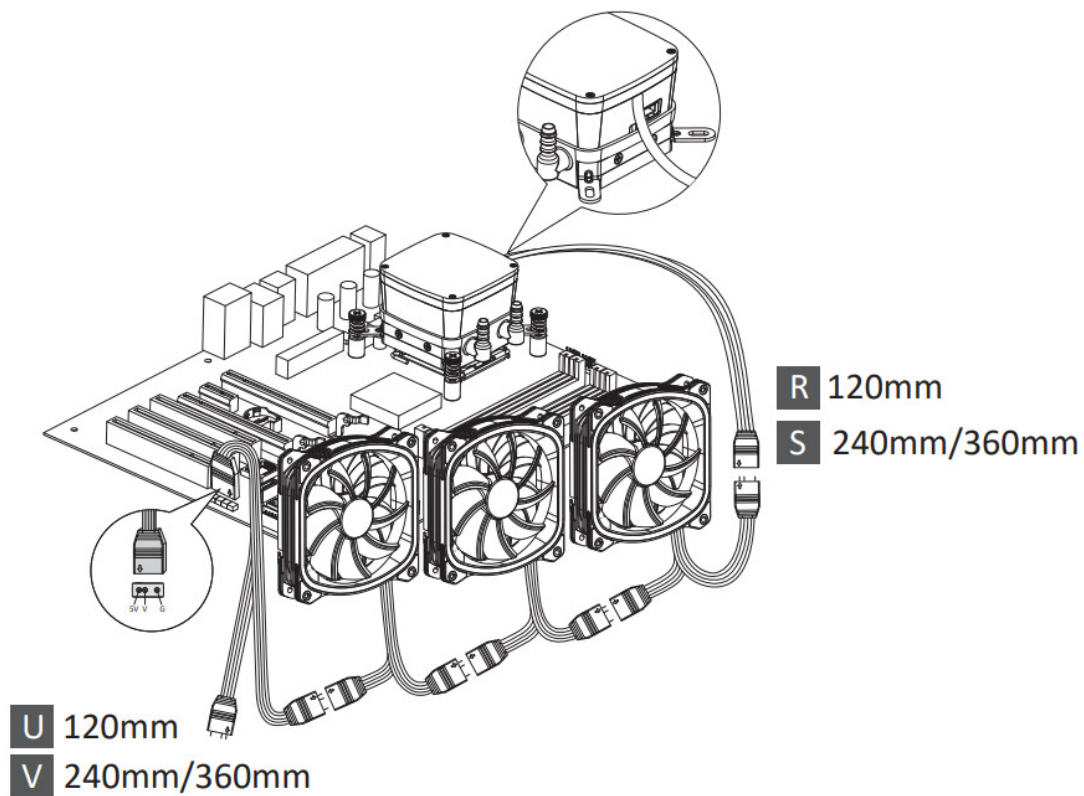
Step 8

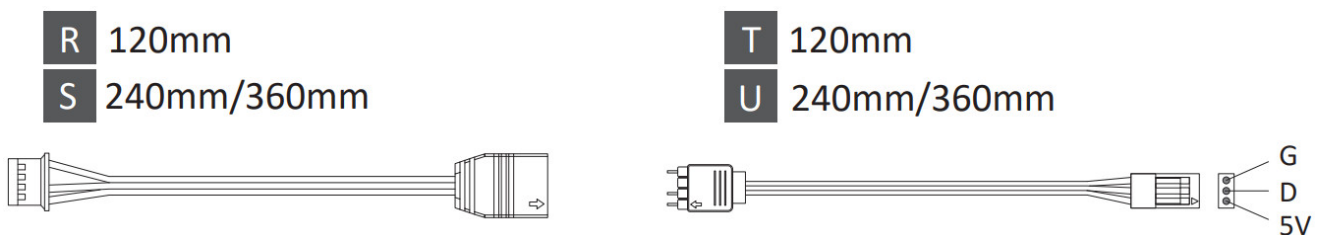Connect the fan connector to the motherboard.

Motherboard Sync

Please ensure the motherboard with 3-pin (5V) Addressable RGB header

R | 120mm
S | 240mm/360mm

U | 120mm
V | 240mm/360mm

Connect the sync cable to a supported motherboard with RGB header.

R | 120mm
S | 240mm/360mm

T | 120mm
U | 240mm/360mm

G
D
5V

For GIGABYTE motherboards, the pin assignment* of the addressable RGB headers is different from those of AQUAFUSION ADV. Therefore, when you install the cooler onto the motherboards, please connect the RGB Sync cable to the adapter (both cables are included in the AQUAFUSION ADV package). Next step please connect the RGB Sync adapter to the motherboard addressable RGB header, to enrich and perfect your lighting experience.
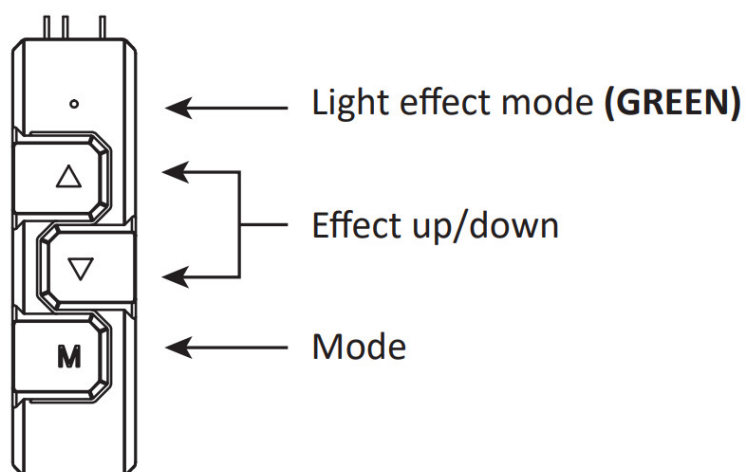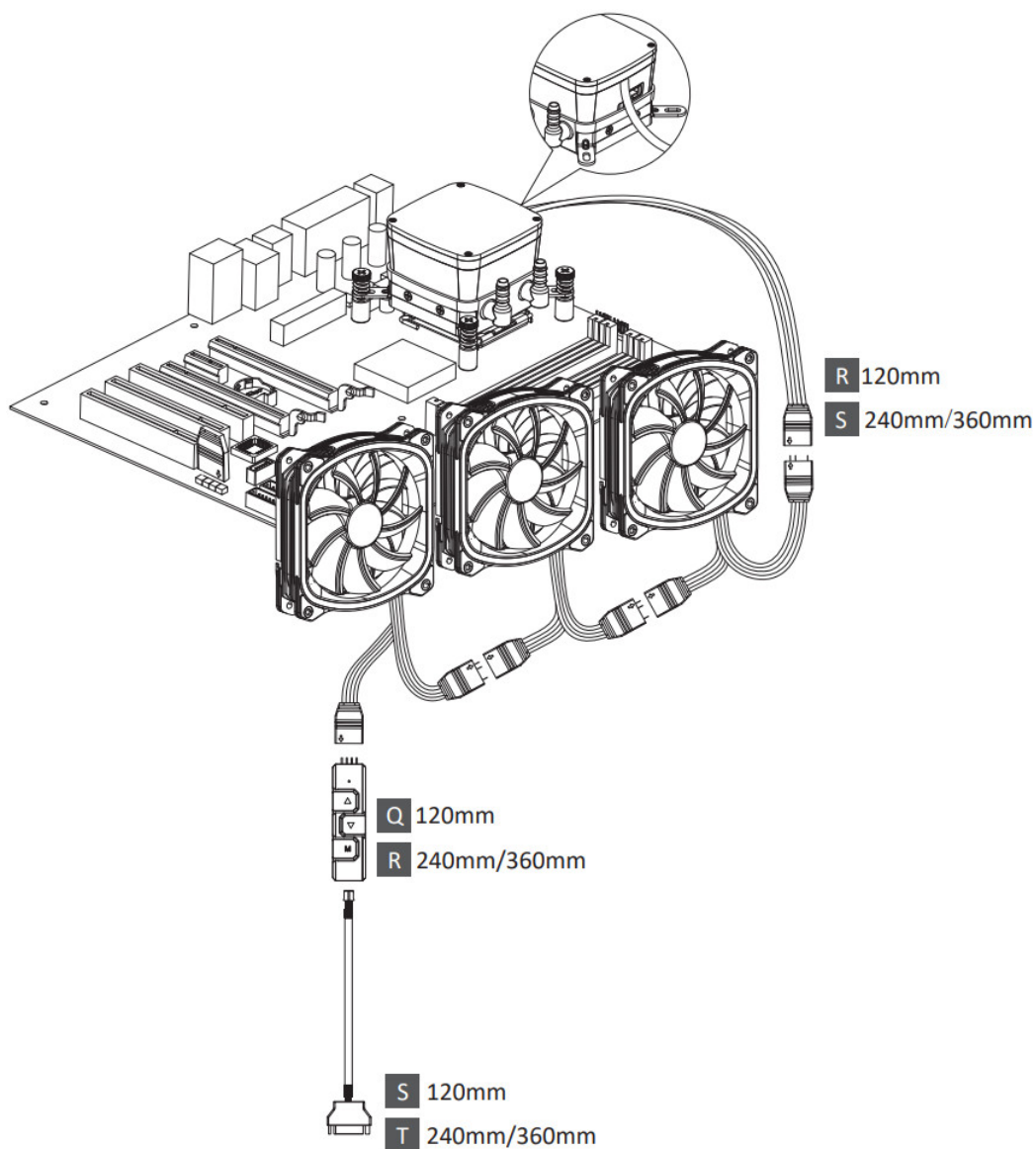* GIGABYTE RGB header pin assignment: V/D/G

RGB Control Box

⚠ For non-addressable RGB motherboard

When you install the cooler onto the motherboard, please connect the RGB Sync cable to the water block, and then connect the power connectors to RGB control box. Meanwhile, connect the SATA power cable to PC power supply SATA connector.

R 120mm
S 240mm/360mm

Q 120mm
R 240mm/360mm

S 120mm
T 240mm/360mm

← Light effect mode **(GREEN)**

← Effect up/down

← Mode

The 4 LED colors indicate the different modes: GREEN (Light Effect), RED (Effect Speed), BLUE (Brightness), YELLOW (Auto-run).

1. Press "M" until you reach the Light Effect Mode (GREEN).

2. To change the effect, press the ▲ or ▼ button.

3. 10 pre-set light effects:

   1) Racing-Rainbow (Default)

   2) Breathing-Rainbow

3) Flash-Rainbow

4) Overlaying-Rainbow

5) Flow-Rainbow

6) Colors auto-run (8 colors)

Press ▲ for 3 seconds to fix the current color. Press ▲ for 3 seconds again to return to the Colors auto-run effect.
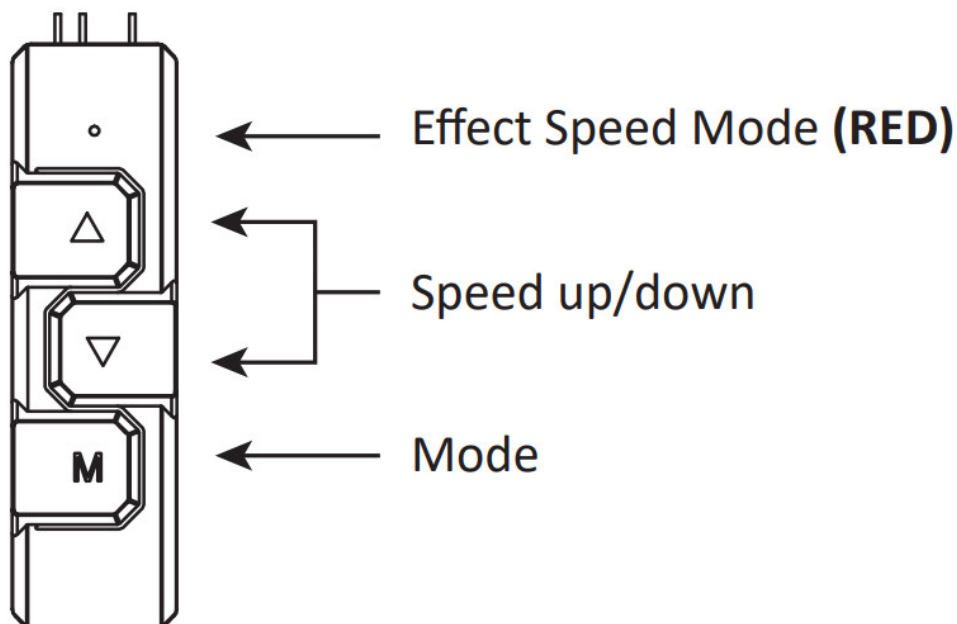
7) Ripple auto-run (8 colors)

Press ▲ for 3 seconds to fix the current color. Press ▲ for 3 seconds again to return to the Flash auto-run effect.
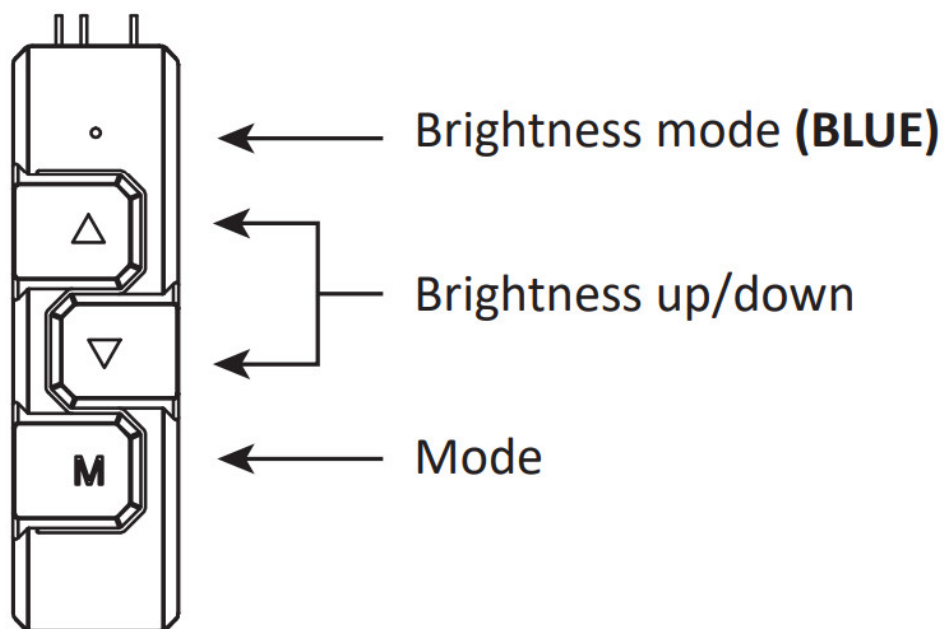
8) Overlaying-RED

9) Overlaying-GREEN

10) Overlaying-BLUE

4. Pressing ▼ for 3 seconds will return to the default "Racing-Rainbow" effect.

1. Press "M" until you reach the Effect Speed Mode (RED).
2. To change the effect speed, press the ▲ or ▼ button.

Brightness mode **(BLUE)**

Brightness up/down

Mode

1. Press "M" until you reach the Brightness Mode (BLUE).

2. To adjust the brightness, press the ▲ or ▼ button.

3. cPress "M" in any mode for 3 seconds to turn-off the light. Press "M" again to turn on the light and continue with the previous effect.

Noise Reducer
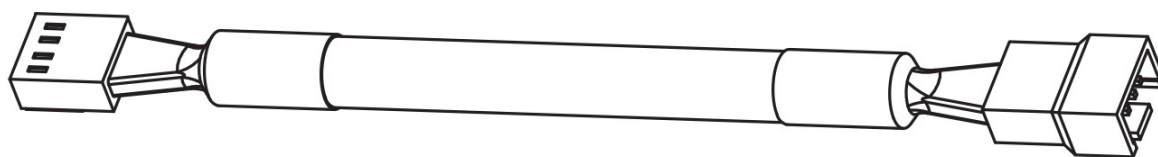
Noise Reducer adaptor for reducing the speed and noise of radiator fans.

Installation

P PWM Y Cable

Noise Reducer

4 pin
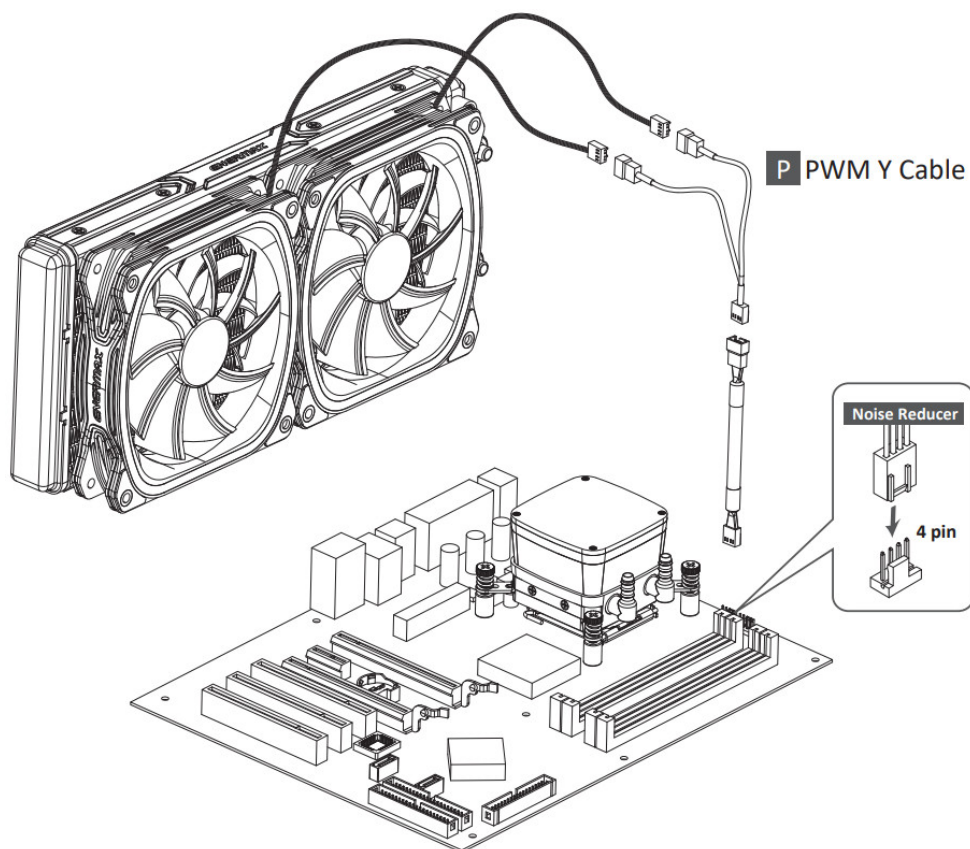
Compatible with 240 & 360mm	With Adaptor
Max Fan Speed	1,700 rpm (±10 %)
Max Fan Air Flow	67.1 CFM
Max Fan Static Pressure	2.1 mm-H2O
Max Fan Maximum Noise	27.4 dBA

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Documents / Resources

ENERMAX ELC-AQFA360-SQA Addressable RGB AIO Cooler [pdf] User Manual
ELC-AQFA360-SQA, ELC-AQFA360-SQA Addressable RGB AIO Cooler, ELC-AQFA360-SQA, Addressable RGB AIO Cooler, RGB AIO Cooler, AIO Cooler, Cooler

References

- **User Manual**