Aqua Brazi
All Copper se

P/N: CL-W0087

CPU
Waterblock

Thermaltake
CoolAll Your Life

Limited Liability

These warranties replace all other warranties, expressed or implied including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Thermaltake disclaims all other warranties, expressed or implied including, without limitation, implied warranties of merchantability and fitness for a particular purpose.

Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. All expressed and implied warranties are limited in duration to the limited warranty period. No warranties apply after that period, some jurisdiction do not allow limitation on how long an implied warranty lasts, so this limitation may not apply to you.

Limitations of liability, Thermaltake's responsibility under this, or any other warranty, implied or expressed, are limited to repair or replacement, as set forth above. These remedies are the sole and exclusive remedies for any breach of warranty. Thermaltake is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including, but not limited to, lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any cost of recovering, reprogramming, or reproducing any program or data stored in or used with a system containing Thermaltake product. Some jurisdictions do not allow the exclusion or limitation of incidental or exclusions may not apply to you.

Extent of limited warranty, Thermaltake does not warrant that your product will be free from design defects or errors known as "ERRATA". Current characterized errata are available upon request. This limited warranty does not cover any costs relating to removal or replacement of any part that is soldered or otherwise affixed to your system's motherboard. This limited warranty does not cover damages due to external causes, including accidental, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. Nor is Thermaltake held liable for any bodily damage that may result during the installation, maintenance, repair, or is otherwise associated with this product, Thermaltake is free from any legal actions that may result in death, pain and anguish, or any other form of personal damage that may occur by purchasing this product.

You, the buyer, agree to this warranty and its term set within its expressed and implied limited warranty. This limited warranty gives you specific legal rights, and you may also have other right that varies from jurisdiction to jurisdiction.

Contents

1 Specifications ---------- 01

2 Components ---------- 01

3 Installation steps ---------- 02

4 Industrial-Grade Tube Installation ---------- 03

5 Waterblock Installation

5-1 Intel P4 LGA775 ---------- 04

5-2 Intel P4 478 ---------- 07

5-3 AMD K8 ---------- 10

5-4 AMD K7 ---------- 15

5-5 Intel BTX Motherboard ---------- 18

6 Connector Installation ---------- 20

7 Q & A ---------- 21

1. Specification

P/N	CL-W0087
Material	All copper designed
Dimension	58mm(L) X 58mm(W) X 35mm(H)
Quick install connector	For 6.4mm ID (1/4") tubing For 9.5mm ID (3/8") tubing
Weight	311(g)

2.Components

CPU Waterblock

- Industrial-Grade Tube
- 6.4mm ID (1/4") quick connector x2
- 9.5mm ID (3/8") quick connector x2

Bag(D)

Clips for BTX motherboard

Bag(A)

Clips for ATX motherboard
- Intel P4 LGA 775

Bag(B&C)

Clips for ATX motherboard
- Intel P4
- AMD K8&K7

Thermal compound

3.Installation steps

In order to ensure convenience and safety, following the installation procedure below is strongly recommended.

Components Check P.01

▼

Install Industrial-Grade Tube P.03

▼

Install Waterblock P.04

- Intel P4 LGA775
- Intel P4 478
- AMD K8
- AMD K7
- Intel BTX Platform

▼

Install Connectors P.20

▼

Installation Complete

4.Tube Installation

Remove black rubber caps from the waterblock.

Connect the tube with the waterblock as shown. Use pliers to tighten the clips.

Repeat the steps for the second tube.

Installation complete.

5.Waterblock Installation

5.1 Intel P4 LGA775 Installation

Intel LGA 775
Motherboard

Clips for LGA 775

A. Metal H-type clip
B. Thin insulator
C. Thick insulator
D. Thumb nuts
E. Stand Offs
F/ I /J. Screws
G. Washers
H. Thermal compound
K. Thin metal H-type clip
L. Metal I-type clip

Bag(A&B&C)

Tear off the tape on the back of the thin insulator (B) and place it on the metal H-type clip(A).

Combine the mylar (thin insulator) and the foam (thick insulator) using the adhesive. Sick the metal H-type clip(A) with the insulators (BC). Tear off the protective layer to adhere it onto the motherboard.

Attach H-type clips(including ABC)on the back side of motherboard.

Insert the screws (F) into the four holes as shown in the photo.

Put the washers(G) along the screws to prevent the electric current.

Put the stand offs(E) along the screws to fix the screws on the motherboard.

Combine the metal clips(KL) with screws(I) as shown above.

Secure the H-clip(KL) on the waterblock by using screws(J).

Apply a thin layer of grease onto the processor.

Place the waterblock on the processor .

Tighten the thumb nuts(D) to the screws as shown to fix the waterblock on motherboard.

Note:

5.2 Intel P4 478 Installation

Intel P4 478
Motherboard

Bag(A&B&C)

Clips for P4 478

A. Metal H-type clip
B. Thin insulator
C. Thick insulator
D. Thumb nuts
E. Stand Offs
F/I Screws
G. Washers
H. Thermal compound

Tear off the tape on the back of the thin insulator (B) and place it on the metal H-type clip(A).

Combine the mylar (thin insulator) and the foam (thick insulator) using the adhesive. Sick the metal H-type clip(A) with the insulators (BC). Tear off the protective layer to adhere it onto the motherboard.

Attach H-type clips(including ABC)on the back side of motherboard.

Insert the screws (F) into the four holes as shown in the photo.

Put the washers(G) along the screws to prevent the electric current.

Put the stand offs(E) along the screws to fix the screws on the motherboard.

Secure the H-clip(A) on the waterblock by using screws(I).

Apply a thin layer of grease onto the processor.

Place the waterblock on the processor .

Tighten the thumb nuts(D) to the screws as shown to fix the waterblock on motherboard.

Note:

5.3 AMD K8 Opteron / Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron Installation (Socket 754 / 939 / 940)

Check Your Back Plate!
If your Motherboard includes:
⊙Metal back plate-
higher mounting holes, the installation is as same as the K8 Standard installation(4.2.1).
⊙Plastic back plate (the ASUS motherboards, for example)-
lower mounting holes, the installation is as following(4.2.2).

5.3.1 Install by back plate for motherboard (Standard installation)

AMD K8
Motherboard

Bag(A&B&C)

Clips for K8

A. Metal H-type clip
B/C. Screws
D. Thermal compound

Remove the retention frame from motherboard.

Apply a thin layer of grease onto the processor.

Secure the H-clip(A) on the waterblock by using screws(C).

Place the waterblock on the processor and insert screws(B) as shown in the photo.

Secure the waterblock onto the motherboard.

Note:

5.3.2 Install by clips bundled in package

AMD K8
Motherboard

Bag(A&B&C)

Clips for K8

A. Metal H-type clip
B. Thin insulator
C. Thick insulator
D. Thumb nuts
E. Stand Offs
F/I. Screws
G. Washers
H. Thermal compound

Remove the retention module from the motherboard.

Remove the back plate on back side of motherboard.

Tear off the tape on the back of the thin insulator (B) and place it on the metal H-type clip(A).

Combine the mylar (thin insulator) and the foam (thick insulator) using the adhesive. Sick the metal H-type clip(A) with the insulators (BC). Tear off the protective layer to adhere it onto the motherboard.

Attach H-type clips(including ABC)on the back side of motherboard.

Insert the screws (F) into the two holes as shown in the photo.

Put the washers(G) along the screws to prevent the electric current.

Put the stand offs(E) along the screws to fix the screws on the motherboard.

Apply a thin layer of grease onto the processor.

Secure the H-clip(A) on the waterblock by using screws(I).

Place the waterblock on the processor.

Tighten the thumb nuts(D) to the screws as shown to fix the waterblock on motherboard.

Note:

5.4 AMD Athlon XP Installation (Socket A / 462)

AMD K7
Motherboard

Bag(A&B&C)

Clips for K7

A. Metal H-type clip
B. Thin insulator
C. Thick insulator
D. Thumb nuts
E. Stand Offs
F/I. Screws
G. Washers
H. Thermal compound
J. Thin metal H-type clip

Tear off the tape on the back of the thin insulator (B) and place it on the metal H-type clip(A).

Combine the mylar (thin insulator) and the foam (thick insulator) using the adhesive. Sick the metal H-type clip(A) with the insulators (BC). Tear off the protective layer to adhere it onto the motherboard.

Attach H-type clips(including ABC)on the back side of motherboard.

Insert the screws (F) into the four holes as shown in the photo.

Put the washers(G) along the screws to prevent the electric current.

Put the stand offs(E) along the screws to fix the screws on the motherboard.

Secure the thin metal H-type clip(J) on the waterblock by using screws(I).

Apply a thin layer of grease onto the processor.

Place the waterblock on the processor.

Tighten the thumb nuts(D) to the screws as shown to fix the waterblock on motherboard.

Note:

5.5 Intel P4 BTX Installation

Intel LGA 775
BTX Motherboard

Bag(D)

A. Metal H-type clip
B. 37mm stand offs
C. 42.7mm Stand offs
D. Thumb nuts
E. Thermal compound
F. Screws

Put the H-clip(A) on the waterblock.

Secure the H-clip(A) on the waterblock by using screws(F).

Screws the 37mm stand offs(B) on the Motherboard.

Screws the 42.7mm stand offs(C) on the BTX SRM of case as shown.

Apply a thin layer of grease onto the processor.

Place the waterblock on the processor.

Tighten the thumb nuts(D) to the stand offs as shown to fix the waterblock on motherboard.

Note:

6. Connector Installation

NOTE:
Before installing, please makesure that the connectors are tightenedproperly.

There are two types of quick connectors (6.4mm [1/4"] ID and 9.5mm [3/8"] ID). You can apply to the situation that fits your liquid cooling system .The following diagrams are 9.5mm ID (3/8") quick connector.

A. 6.4mm ID (1/4") quick connector x2
B. 9.5mm ID (3/8") quick connector x2

Screw on the connector. Do the same action for the other connector.

Installation complete.

Note:

Upgrade your BigWater series with Aqua Brazing all copper series.

You can apply to the situation which fits your liquid cooling system.
Please refer to Thermaltake website at http://www.thermaltake.com.

Combine with iTube series

(The tube is not included the product)
There are two sizes of UV tube, 1/4" and 3/8",
these are easy to fit your liquid cooling system.
Please refer to Thermaltake website at
http://www.thermaltake.com

P/N:CL-W0045
CL-W0055

7. Q & A

Q: How do I uninstall the waterblock?

A : There are no special procedures to remove the waterblock.
Please reverse the steps found in processor installation guide.

Q: Can I add another VGA waterblock or Northbridge waterblock?

A : Yes. Thermaltake offers a wide variety of liquid cooling upgrade parts for each components such as Aqua Brazing all copper series-W2 (VGA WaterBlock) or Aqua Brazing all copper series-W3 (North Bridge WaterBlock). For more information, please log onto www.thermaltake.com.

Note:

Aqua Brazi
All Copper se

P/N: CL-W0087

Thermaltake
CoolAll Your Life

www.thermaltake.com REVISION A.2006.03

O0438