

Intel-BTX

Your New Partner In The Future



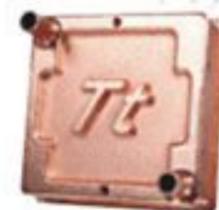
Tt Thermaltake
COOL ALL YOUR LIFE

1st. Edition

TT LIFE

VOL. 1 / Spring, 2006

Liquid Cooling System - D.I.Y.



Brazing -
The next level in making waterblock

The Eye Catching **Blue Orb II**
Worldwide Exhibition
New Product Introduction
Tt's Value Partners



Tt Thermaltake
COOL ALL YOUR LIFE

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Mission Statement

Thermaltake Technology Co. LTD started its core business based on our extensive knowledge of PC Thermal Management during the era where the area of performance CPU Cooling was only exclusive for? overclockers? or PC enthusiasts. With the company's initial launch of Orb coolers, it created waves of shocks and appraisals throughout the gaming and overclocking communities. Thermaltake quickly became the name gamers turn to when they need high-end and reliable thermal solutions.

With company's core business of CPU Cooling still growing at a vast rate, Thermaltake made another grand entry to the PC Chassis industry.

To date, Thermaltake has always been considered as the pioneering company that revolutionized the PC Chassis industry with Xaser Series enclosures. The typical and traditional beige and plastic front panel design was outdone by Xaser Series chassis's atypical gaming red and aluminum front panel. It was also the first enclosure available to public with Hardcano unit which provided users full control over computer's the thermal management system.

In the year of 2002, Thermaltake announced Purepower line of power supply unit for the ever-growing power-hungry PCs. Purepower Series PSU quickly gained recognition with its extensive warranty and high-reliability guaranty.

Today, Thermaltake has grown into a world-class company with state-of-the-art testing and R&D facility based in Taiwan along with 60+ engineers and I.D. team covering each application segment such as Liquid Cooling, Air Cooling, PC Enclosure and Power Supply for main-stream users, high-end solutions, System Integrators and industrial applications; thus achieve Thermaltake's company motto, "COOLall YOUR LIFE".

**Ideas Originate From Humanity,
Realizing Ideas Is Our Belief.**

Kenny Lin C.E.O

How to Build a Liquid Cooling System



Liquid cooling has become more and more prevalent in all kinds of industries today. For example, highly reliable units such as car engines and nuclear reactors are all cooled by water. With the performance of the personal computer systems increasing, the CPU and video card heat output is steadily on the rise as well. In order to effectively cool the system temperature, due to the rising heat of the computer systems, water cooling is the top choice for users that thrive for high performance and

silence. What most people do not realize is that with the technology today, it is no longer a difficult task to build a liquid-cooled computer system.

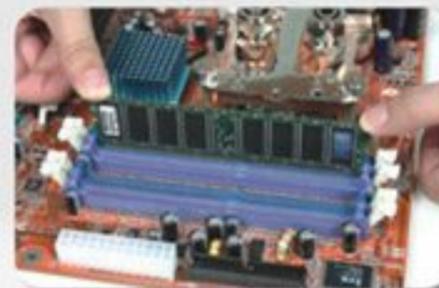
For the highest-end performance and future compatibility, we recommend the BigWater 745 Liquid Cooling System. The pump is rated at 400 liters per hour with two sets of radiators. The system will run perfectly fine even if extra VGA / northbridge / memory blocks are added into the system. The BigWater 745 is also compatible with BTX motherboards to secure the future of high-end gamers.



We need to install the CPU on Motherboard, make sure indentation of the CPU is matched with the socket. match up the indentations of the CPU with the CPU socket and gently place the CPU into the socket.

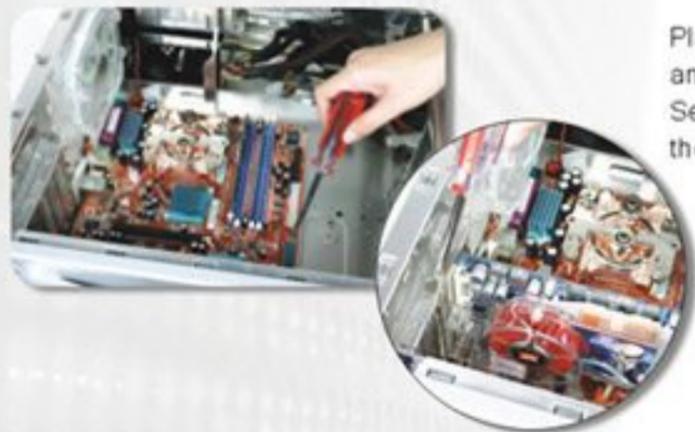
 Please don't touch the wire legs inside the CPU socket as static electricity may damage the socket.

Install the waterblock on the processor and secure it with clips and screw provided in the package.



Snap the RAM into the correct RAM slot accordingly. Place the power supply inside the chassis and secure with screws.

How to Build a Liquid Cooling System



Place the motherboard into the chassis and match up the mounting holes. Secure the motherboard with the screws then install the video card.

It is fine to place the radiator upside down if necessary as it will not affect its cooling performance significantly.

There are two options to install 12cm radiator

Option 1 (Inside the case):
If the radiator fits onto your back panel without any interference.
Option 2 (Outside the case):
If there is interference between radiator and back panel of your case.



Option 1 : Inside the case



Option 2 : Outside the case



Install and secure foot stand for 24cm external radiator



Insert wire and Tubes of 24cm external radiator through PCI bracket.



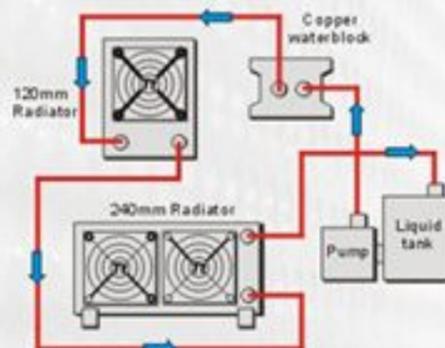
Use mounting holes or Velcro to secure Pump and Tank.



Install hard drive and optical drive.

How to Build a Liquid Cooling System

At this point, the crucial system components should have been installed. The only step left is to install the tubes of the liquid cooling system. With the BigWater 745, all of the liquid cooling components are built to be tool-free for installation.



In order to maximize the performance and efficiency of the BigWater 745, please install the tubes and components in the following order:



Start with connecting tube to waterblock.



Connect waterblock to 12cm radiator.



Connect 12cm radiator to 24cm external radiator.



You have gotten yourself a high performance Liquid Cooling system.



Connect 24cm radiator to tank & pump, then back to waterblock.

If you want to know more about liquid cooling products and upgrade your liquid cooling system. Please check the Thermaltake website. www.thermaltake.com

Please see next page on how Thermaltake makes waterblock with brazing technology.

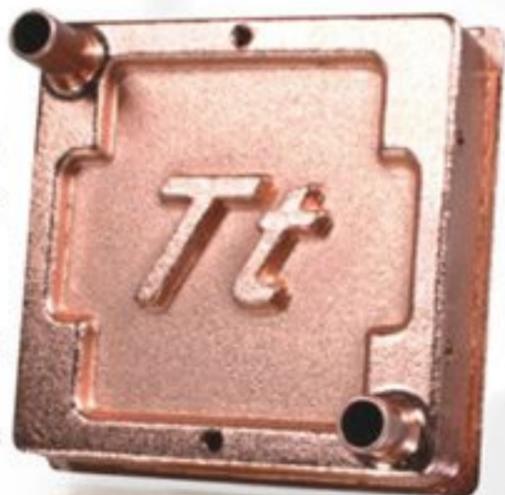
Brazing-The next level in making waterblock

How to manufacture a reliable waterblock

After several years of research and development, liquid cooling is finally being accepted in the mainstream gamers and manufacturers. However, liquid cooling is still not to be taken lightly as it is extremely difficult to create a constant leak-free liquid cooling system that is still able to keep the manufacturing cost low enough for the average consumer to buy. We will introduce to you the technology Thermaltake uses to manufacture our waterblocks that are safe and reliable.

CPU Waterblock Brazing Process

The average waterblock on the market are usually soldered. Soldering temperature is usually between 200 to 350°C, which is also called low temperature welding. We consider tin soldering on waterblocks are very inappropriate since the internal temperature of the waterblock will slowly corrode the soldering over time, inducing a leak in the future. For this reason, Thermaltake chooses to use welding with copper material that contains 5% to 15% silver. The welding temperature of the material is between 705 and 850°C and is called **brazing**, also known as high temperature welding. **Brazing** features both excellent mechanical and chemical properties, thus is very reliable. Users will be able to use **brazed** products in their computer systems without having to worry about leaks over long periods of time.



Top of the waterblock



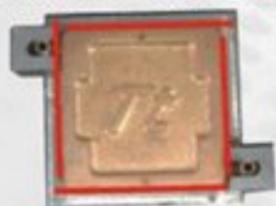
Bottom of the waterblock

1 Usually, when designing a waterblock, we separate the waterblock into a top and a bottom portion. The bottom portion is the part that makes contact with the CPU surface and transfers the most heat.

Before brazing, there is need for a set of fixture to contain all parts and their relative position. The fixture should be made of stainless steel or some kind of high temperature-resistant material to prevent the fixture from deforming during the high-temperature process. If the fixture deforms, the product is ruined and the fixture is also ruined.



High temperature brazing fixture



3 Position of the welding material

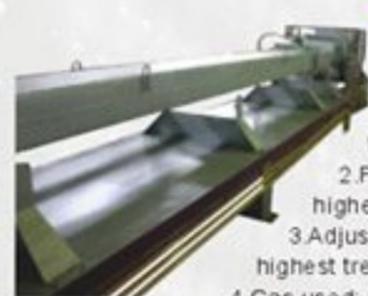
Put the top and bottom portion of waterblock on the fixture and position the welding material around its four edges. The melted welding material will then join the top and bottom portion of waterblock by capillarity and complete the welding process.



4 Temperature adjustment

Next, we adjust the temperature inside the oven. Normally, we would have a preset temperature, and the temperature is usually set at 50 to 80°C below the welding temperature.

Brazing-The next level in making waterblock



5 Pre-heating stage

Here are the specifications of the brazing oven:

1. Total length: 18 meters
2. Five segments of heat preparation, highest temperature is 1050°C
3. Adjustable belt speed, highest tread speed 570mm/min
4. Gas used: 75%H₂+ 25%N₂



6 The products placed on the conveyor belt

We carefully place the mold and prepped product onto the conveyor belt, the temperature inside the oven is now around 705 to 850°C

7 The product rolling out of the oven

The time it takes for the product to complete brazing process is about one hour. The fixture and product is still at high temperature during this stage and takes about 1 hour to cool down to engage in the leak testing.



Leak Testing

After the brazing process, materials will have some minor changes which would increase perforations significantly. If the perforations are too big, liquid may leak through them, thus we use compressed air to test the product.



8 Leak Test Equipment

The leak detector is shown at left. The green container contains approximately 1.2Mpa of air pressure. The transparent observation cylinder is the device to check if there are leaks.



9 Air pressure adjustment gauge

While controlling the pressure, we usually set between 2 to 3 kilograms (or 0.2 to 0.4 Mpa) of pressure. According to statistics, the pressure on fluid of liquid cooling systems in computers is less than 1.0 kilograms, so we use higher pressure during testing to ensure the waterblock does not leak during regular usage.



10 Product Leak Testing Under Progress

The compressed air is injected into one side of the product, and the other side of the waterblock is sealed off to prevent air leak.



11 The bubble when the product leaks

If the product has holes or was not welded properly, the transparent cylinder will have a bubble inside as shown at right.

After testing, if the product is not good, we will choose to re-brazed the unit. If the unit is still not good, we will scrap the unit to ensure the quality of waterblock we deliver.

Brazing process is being used on the following products: "Silnet Water" · "Tide Water" · "Tide Water Plus" · "Symphony" · "Symphony mini" · "Rhythm".

Absolutely Quiet-Blue orb II



5 years ago, Thermaltake caught everyone's eyes by introducing the world's first "Radian" fin cooler "Golden Orb", even earlier than Intel and all other existing radian fin cooler manufactures. The unique appearance and superb performance generated 1.25 million pieces of sales that year. After 5 years of silence, Thermaltake comes back again with the "Orb II" series to reclaim its throne; "Blue Orb II" cooler. Many believe that Thermaltake's Blue Orb II is one of the best high-performance coolers there is in the market. Its big heat dissipating area makes it a good cooler for Overclockers who do not want to spend too much money on a heatsink. Not only does it cool well, it is also surprisingly quiet when delivering its cooling performance. On top of that, its massive blue anodized fins make it a nice addition to the looks of a modded case, especially if your color-theme is blue. What makes this cooler even more attractive is its low price.



doubt that you will be able to find a similar heatsink from another manufacturer with this competitive price. Some may think Thermaltake ripped off this design from Zalman's 7000 series, but many also disagreed. Other than the earliest introduction of "Golden Orb", Thermaltake did a good job with implementing the patented "Radian Crochted Fin", all 140 of them, making it a product that deserves recognition. The copper base and the 140 aluminum fins seem to be much more effective than the stock cooler. The 120mm fan maximizes the airflow and doing it very silently.

The blue finish on the fins and the blue LED makes it a real eye catcher when used in an open case. Performance wise, the Thermaltake Blue Orb II will fit in perfectly in any high-end market.

This is not the only good thing with the Blue Orb II. Most times, a cooler with a fan running at high speeds can do a great job, but the rotation speed of the Blue Orb II is half that of the stock cooler, at only 1620-1650rpm. Low rotation speed usually means low noise levels. The Blue Orb II is extremely silent and you don't have to worry about noises emanating from your case.

Installation of the Blue Orb II is also as simple as 1-2-3. Thermaltake includes everything you need in the package, even thermal compound! However, in the case of the Intel 775 socket as well as in most AMD's platforms, you'll have to remove the motherboard from the PC case in order to attach either the two mounting brackets in the case of the 775 socket, or a different plastic plate in the case of AMD.

The visible blue light of Blue Orb II will enhance the look of your system if you have a transparent side panel, the noise from the low speed fan is unnoticeable, and the performance will blow everyone else's away within its price range.



<http://www.thermaltake.com/product/cooler/retail/cl-p0257/cl-p0257.asp>

Worldwide Exhibition



Thermaltake presented at SIMO in Madrid, Spain.



Thermaltake attended SMAU in Milan, Italy.



Thermaltake joins WPC EXPO 2005 in Japan.



(Tai Chi) Spot light of the exhibition.



Thermaltake joins CES 2006 in Las Vegas.



Thermaltake joins CES 2006 in Las Vegas.

Lanparty Events



Thermaltake sponsored WCG in Japan and attract about 5,000 audience's attention.



Thermaltake sponsored All Your Base Online in Winnipeg, Canada.



Thermaltake sponsored StarLAN about 300 gamers in Mulfingen, Germany.



Thermaltake's own LAN party CLPA in Beijing, China.



Winners of modding contest at CLPA.



Thermaltake Sponsored Pure-Lan in Deauville, France.

CL-P0189

Application for Intel Processor 130W(05B) LGA775



Features

Radiate fins(99fins),copper core, made good heat dissipation. Riveting the core copper touches the heat center directly, and conducts heat quickly. The fourth fan pin has PWM (Pulse Width Modulation) an speed control function: decrease energy consumption, reduces acoustics noise and increase fan performance. Push pin design, require no tool to install.

CL-P0075

Application: AMD Opteron and Athlon 64 / Athlon 64 Fx55



Features

60 x 60 x 18 mm thermal control fan. Copper base with heatpipe technology. High density thin fin, more surface area gives good heat dissipation. Tool - free clip, easy installation.

CL-P0030-03

Application for Intel BTX (Type I) Performance High density thin fin, more surface area-providing excellent heat dissipation. Copper base with heat-pipe technology.



Features

Heatsink: Aluminum fins soldered to copper base. Dual layer 92x92x38mm fan provides better air-flow and reduce the noise. The 4th pin of the fan connector has PWM & thermal control function. Honeywell PCM45F interface material, perform well. Noise Elimination Sponge absorbs the entering noise from the airflow.

CL-P0191

Application for Intel BTX (Type I) Performance

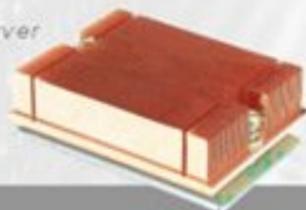


Features

Heat-sink: Aluminum fins soldered to copper base. Dual heat-pipes facilitate the transmission of heat. The 4th pin of the fan connector has PWM & thermal control function. Honeywell PCM45F interface material, perform well. Noise Elimination Sponge absorbs the entering noise from the airflow.

A1819

For AMD Opteron 1U Server



Features

Application for Socket 940 1U Rack Mount system. Two alternatives, depends on system airflow. All copper, Tiny Fin Technology. SC-102 interface material, perform well.

CL-P0303

Application for Intel Xeon Dempsey 2U Active Solution



Features

Application for Intel Xeon Dempsey 2U active solution. All copper soldering Technology. Heat-pipe designation provides better heat conductivity. Dow Corning 5022 Interface material performs well.

CL-P0280

Application for AMD TurionTM 64 35W Solution



Features

Application for Turion™ 64 CPU on desktop PC. Silent fan decreases noise level, 21dBA only. Tool-less clip, easily to install. TIM: SC-102 provides better interface contact. Gap pad provides better protection for CPU.

CL-P0312

Application for AMD TurionTM 64 81W



Features

Application for Mobile Athlon™ 64 CPU on desktop PC. Copper base, makes good heat conduction. Silent solution: 2500RPM fan, 21 dBA ONLY. Tool-less clip: Designed to fit quickly. Gap pad provides better protection for CPU.

VD1000 Series Middle Tower

Features

ATX/BTX compatible (BTX upgrade kit is optional). Fits up to standard ATX & BTX motherboard. Dual 120mm silent front and rear fan. Mesh design for optimal ventilation. Color: Silver (all aluminum case) Black (SECC with aluminum front panel). Fits T1 liquid cooling system.

Specification:

Dimension(HxWxD):478x210x520(mm)
Cooling System:Front(Intake)120x120x25mm,1300rpm,17dBA
Rear(Exhaust)120x120x25mm,1300rpm,17dBA
Drive Bays:5x5.25",2x3.5", (Internal)4x3.5"
Expansion Slot:7
Motherboards:12"x9.6"(ATX) & 9.6"x9.6"(Micro ATX)
PSU:Standard ATX PSU
I/O Ports:USB2.0x2,IEEE 1394X1,Audio & Speaker ports

Agula



VC3000 Series Middle Tower

Features

ATX/BTX compatible (BTX upgrade kit is optional). Drive bay capacity: ATX 5.25"x 5, 3.5" x 2/4 (external/internal) BTX 5.25" x 3, 3.5" x 2/4 (external/internal). 12cm silent front and back fans. Tool-free, easy to install. Color: Silver (Aluminum) & Black (SECC). Fits T1 liquid cooling system.

Specification:

Dimension(HxWxD):478x210x495(mm)
Cooling System:Front(Intake)120x120x25mm blue LED fan,1300rpm,17dBA
Rear(Exhaust)120x120x25mm,1300rpm,17dBA
Driver Bays:5x5.25",2x3.5", (Internal)4x3.5"
Expansion Slots:7
Motherboards:12"x9.6"(ATX) & 9.6"x9.6"(Micro ATX)
PSU:Standard ATX PSU
I/O Ports:USB2.0x2,IEEE 1394x1,Audio & Speaker ports

AVOR



VC6000 Series Middle Tower

Features

Classy all aluminum case design. Slim DVD Combo Drive included. Sound level indicator. Dual silent 120mm front and rear case fan. Transparent side window (Option). Security lock for front & side panels.

Specification:

Dimension(mm): 210(W)x500(D)x480(H)
Read Speed:DVD-ROM 8X,CD-R 24X,CD-RW24X,CD-ROM24X
Write Speed:CD-R 24X,CD-RW 24X
Motherboards:12"x9.6(ATX),9.6"x9.6"(Micro ATX)
Cooling System:Front(Intake)-120x120x25mm,1300rpm,17dBA
Rear(Exhaust)-120x120x25mm,1300rpm,17dBA
Drive Bays:4x5.25",2x3.5", (Internal)5x3.5"
Expansion Slots:7
I/O ports:Dual USB2.0,IEEE 1394Firewire,Audio & Speaker ports

ECLIPSE DV



Retail Products-Case

VC8000 Series Home Server Full Tower

Features

Full tower, all aluminum chassis
Supports up to extend ATX motherboard(12"x 13")
120mm silent front and rear case fans
Honeycomb see-through side panel for maximum airflow
Pre-assemble mounting for liquid cooling system

Specification:

Side Panel:Honeycomb see through side panel
Net Weight:8.91Kg
Dimension(HxWxD):540x205x650(mm)
Cooling System:Front(Intake)-120x120x25,1300rpm,17dBA
Rear(Exhaust)-120x120x25mm blue LED fan,1300rpm,17dBA
Drive Bays:5x5.25",2x3.5", (Internal)5x3.5"
Color:Black/Silver
Expansion Slot:7
Motherboards:12"x9.6"(ATX),9.6"x9.6"(Micro ATX),12"x13"(Extend ATX)
PSU:Standard ATX PSII
I/O Port:USB2.0x2,IEEE1394x1,Audio & Speaker ports

EUREKA
ALUMINUM CASE



VD2000 Series Middle Tower

Features

Aluminum badge with mesh panel
Dual USB 2.0, IEEE 1394 Firewire, MIC & Speaker ports
Tool-free installation for all drive bays & add-on cards
High efficiency ventilation: 12cm silent fan in rear
(front 12cm fan is optional)
Entirely filtered front panel design to prevent dust built up

Specification:

Net Weight:5.6 kg
Dimension(H*W*D):420 x 190 x 480 mm
Cooling System:Front (Intake) : 120 x 120 x 25 mm (optional)
Rear (Exhaust) : 120 x 120 x 25 mm, 1300rpm,17dBA
Drive Bays:4 x 5.25",2x3.5"(internal)4x3.5"
Material: SECC Japanese steel(chassis)
Color: Black
Expansion Slot:7
Motherboards: Micro ATX,Standard ATX

MATRIX



VD3000 Series Middle Tower

Features

Perfect for LAN party 3-Bay
High efficiency ventilation: 12cm silent fan in front & rear
Tool Free when installing 5.25" & 3.5" device.
Dual USB 2.0, IEEE 1394 Firewire, Audio & Speaker ports
Stylish streamline form design
Thumb-screws for easy opening side panel
EMI protection spring

Specification:

Case Type:MiddleTower
Net Weight:3.8kg
Dimension(HxWxD):435x190x485mm
Cooling system(2 fans):
Front(Intake)-120x120x25mm,1300rpm,17dBA,blue LED fan.
(W/window model only)
Rear(Exhaust)-120x120x25mm,1300rpm,17dBA
Driver Bays:4x5.25",2x3.5", (Internal)4x3.5"
Material:Aluminum
Color:Black/Silver
Expansion Slots:7
Motherboards:Micro ATX,Standard ATX

Matrix VX
All Aluminum Case



Retail Products-Cooling Solution

Big Typhoon



Features P/N:CL-P0114

6 Heatpipes, transfer the heat quickly.
12 cm silent fan, 1300rpm, 16dB only.
Support latest Dual Core CPUs up to TDP 130W.
Heatsink: Copper Base & Aluminum Fin (142Fin).
4 in 1 application: Intel Socket LGA775/ 478, AMD Socket K8/K7.

Mini Typhoon



Features P/N:CL-P0268

Best performance, support up to TDP 130W.
6 heatpipes and all copper structure.
Silent RX Type Flow fan, 18dBA only.
Tool-less clip, easy to install.
Application for Intel Socket LGA775, AMD Socket K8/K7.

Blue Orb II



Features P/N:CL-P0257

Ti Patent designed Radian crotched fin design.
Copper core construction.
Max fin count:140 fins.
Silent Blue LED fan,1700rpm, 17dBA.
Universal design for Intel Socket LGA775 & AMD Socket K8.

Golden Orb II



Features P/N:CL-P0200

Ti Patent designed Radian fin design.
Copper core construction.
Silent Blue LED Fan:Ø100x24mm,1600rpm, 17dBA.
Universal design for Intel Socket LGA775 & AMD K8.

Silent Water

ALL In one CPU Liquid Cooling



Application

P/N:CL-W0065

Features

Application for Intel P4 LGA775/478 and AMD K8/K7
High performance 120mm radiator with a 120mm silent VR fan (1300 ~ 2400rpm)
Pure Copper Water Block for maximum heat conductivity
Pure Copper Water Tank enhances the thermal efficiency
Silent and powerful mini 12V pump with superb reliability
Coolant pre-filled

Big Water 745

3X12cm Liquid Cooling System



3x12cm Radiators
Support ATX/BTX
400 L/hr pump
3/8" tube

P/N:CL-W0076

Features

World 1st liquid cooling system supports ATX / BTX motherboard.
Application for Intel P4 LGA775, Intel BTX platform and all AMD K8 series.
Break-through design Radiator:Triple fans and dual radiators ushers in the next generation cooling capability.
Superb Liquid Pump with 400 L/hr:The ceramic bearings significantly extend the life-expectancy of the pump.
Durable 3/8" Tube:tool-less connector design.

Retail Products-Cooling Solution

Tide Water



Features P/N:CL-W0052

Brazing copper-base waterblock: for superb heat dissipation
Apply to nVIDIA and ATI GPU
Giant copper designed Radiator
Adjustable ball bearing Fan (1700 - 2500 RPM /17 - 19dB).

Tide Water plus

Compatible with
nVIDIA SLI and ATI
CrossFire technology



Features P/N:CL-W0056

Copper waterblock: with brazing technology
Compatible with nVIDIA SLI and ATI CrossFire technology
Memory heatsinks included
Copper designed high-performance radiator
Adjustable dual ball-bearing fan (1700/3000RPM at 17/25dB)

Rhythm- All Aluminum Design

Stylish Home Theater Liquid Cooling System



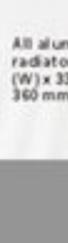
Features P/N:CL-W0042

Extended Aluminum Radiator: Increase surface area to allow high heat dissipation.
Pure Copper CPU Water block: Maximizes heat conductivity from heat source.
12V DC Liquid Pump with 84L/hr, it provides intense yet quiet and smooth liquid circulation.
Two 1400 RPM Ultra-Quiet 120mm fans: Dissipate the ambient thermal more efficiently and silently.

Symphony mini

Support ATX/BTX

Three 1400 RPM
ultra-quiet
120mm fans



All aluminum
radiator 120 mm
(W) x 33mm(D) x
360 mm



Features P/N:CL-W0077

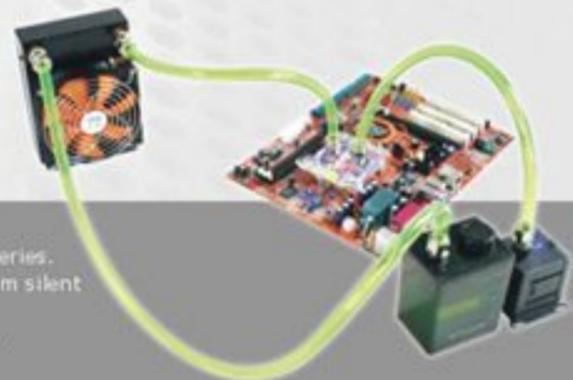
Massive aluminum radiator:
Added surface area to allow high heat dissipation
Brazing copper CPU waterblock:
Maximizes heat conductivity from heat source.
Apply to BTX and Intel P4 Socket 775, P4 Socket 478, AMD K8, AMD K7
Dual pump with 90L/hr flow rate:
Liquid flow rate is increased significantly by implementing dual
pump design; furthermore, it provides intense yet quiet and smooth liquid circulation.
More silent with high performance Three 1400 RPM Ultra-Quiet 120mm fans(16dB).
Dissipate the ambient thermal generated from the heat source

Big Water 735

12cm Liquid Cooling System



Support ATX/BTX
400 L/hr pump
3/8" tube



Features P/N:CL-W0075

World 1st liquid cooling system supports ATX / BTX motherboard.
Application for Intel P4 LGA775 - Intel BTX platform and all AMD K8 series.
Remarkable 120mm Radiator: High performance radiator with a 120mm silent
VR fan(1300 ~ 2400rpm).
Superb Liquid Pump with 400 L/hr: The ceramic bearings significantly
extend the life-expectancy of the pump.
Durable 3/8 Tube:tool-less connector design.

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Retail Products-Power Supply

Toughpower 600W W!Active PFC(100V~240V)

Features P/N: W0109

Complies with ATX 12V 2.2 & EPS 12V version.
Supports SLI, Cross-Fire, and dual core CPU.
Four +12V rails combined loading provides 48A for PC system.
Independent voltage circuit.
Two cooling fans with super low noise(under 32 dBA at full loading)
Industrial grade components(capacitor, transformer, etc).
High reliability: MTBF> 120,000 hours.
High efficiency: 83%.



Toughpower 550W W!Active PFC(240V only) W!O PFC(100V/240V)

Features P/N: W0096/W0097

Complies with ATX 12V 2.0 version.
Supports SLI, Cross-Fire, and Dual Core CPU.
Two +12V rails combined loading provides 36A for PC system.
Independent voltage circuit.
Extreme good voltage regulation(±3%)
Industrial grade components(capacitor, transformer, etc).
High reliability: MTBF> 120,000 hours.
High efficiency: Above 80%.



Toughpower 600W 14cm Fan W!Active PFC(100V~240V)

Features P/N: W0103

Complies with ATX 12V 2.2 & EPS 12V version.
SLI, Cross-Fire, and Dual Core CPU ready.
Next generation four +12V rails supports high-end graphic card and PC system (combined
loading of 48A)
Independent Voltage Circuit: offers unflappable current delivery under heavy load and
makes voltage output more stable.
Active Power Factor Correction (PF>0.99) and high efficiency (83%).
Extremely good voltage regulation (±3%)
Industrial grade components (capacitor, transformer, etc)
High reliability: MTBF>120,000 hours.
Mirror effect housing and reliable 14cm ball-bearing fan.



Toughpower 650W 14cm Fan W!Active PFC(100V~240V)

Features P/N: W0104

Complies with ATX 12V 2.2 & EPS 12V version.
SLI, Cross-Fire, and Dual Core CPU ready.
Next generation four +12V rails supports high-end graphic card and PC system (combined
loading of 52A)
Independent Voltage Circuit: offers unflappable current delivery under heavy load and
makes voltage output more stable.
Active Power Factor Correction (PF>0.99) and high efficiency (83%).
Extremely good voltage regulation (±3%)
Industrial grade components (capacitor, transformer, etc)
High reliability: MTBF>120,000 hours.
Mirror effect housing and reliable 14cm ball-bearing fan.



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Retail Products-Power Supply

Toughpower 700W 14cm Fan W/Active PFC(100V~240V)

Features P/N: W0105

Complies with ATX 12V 2.2 & EPS 12V version.
SLI, Cross-Fire, and Dual Core CPU ready.
Next generation four +12V rails supports high-end graphic card and PC system (combined loading of 56A).
Independent Voltage Circuit: offers unflappable current delivery under heavy load and makes voltage output more stable.
Active Power Factor Correction (PF>0.99) and high efficiency (83%).
Extremely good voltage regulation (±3%).
Industrial grade components (capacitor, transformer, etc).
High reliability: MTBF>120,000 hours.
Mirror effect housing and reliable 14cm ball-bearing fan.



Toughpower 700W 14cm Fan W/Active PFC(100V~240V)

Features P/N: W0106

Complies with ATX 12V 2.2 & EPS 12V version.
Modularized Cable Management to eliminate clutter and improve airflow inside the case.
SLI, Cross-Fire, and Dual Core CPU ready.
Next generation four +12V rails supports high-end graphic card and PC system (combined loading of 56A).
Independent Voltage Circuit: offers unflappable current delivery under heavy load and makes voltage output more stable.
Active Power Factor Correction (PF>0.99) and high efficiency (83%).
Extremely good voltage regulation (±3%).
Industrial grade components (capacitor, transformer, etc).
High reliability: MTBF>120,000 hours.
Mirror effect housing and reliable 14cm ball-bearing fan.



Dual Power 520W W/Active PFC (100V~240V) W/O PFC(100V/240V)

Features P/N: W0107/W0108

Complies with ATX 12V 2.0 version.
Supports PCI-Express, 4 S-ATA, and 24-pin detachable main power connector.
Special design external aluminum housing and internal heat-sink for maximum heat dissipation.
Dual power output: 380W without fan, 520W with 8cm cooling fan.
Fanless design for ultra silent computing.
Three selectable fan switch for quiet computing under higher loads: 35, 45, or 50 degrees C.
Gold-plated connector for better conductivity.



Power Station 400W W/Passive PFC (100V/240V) W/O PFC (100V/240V)

Features P/N: W0111/W0112

Complies with ATX 12V 2.0 version.
The ingenious Modularized Cable Management and Power Station that allows you to arrange cables easier and smarter.
5.25" P.S.T fits any 5.25" drive bay and offer various connectors for all peripheral devices.
Mini P.S.T offers convenient output for devices and accessories at various location.
Blue LED around 5.25" P.S.T socket to illuminate your system.
Rubber Sleeved Cable increase air flow and decrease clutter inside the chassis.



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Retail Products-Enclosure

Muse eSATA 3.5" Meter Enclosure

Graceful Aluminum Screwless Shape application for 3.5" SATA HDD

Features
All aluminum fanless design.
Silver body with graceful curve.
Screwless design easy to install 3.5" SATA HDD without tools.
Datatransfer Meter with blue backlight to indicate digital signal.
Fully support SATA2 eSATA standard.
SATA to eSATA interface - the best performance.
Compact mount easily to stand.
Transfer speed up to 3Gbps



P/N:A2319

Why eSATA?

Extra shielding layer to reduce EMI.
Recessed connector to prevent ESD.
Fully support hot-plug. (Motherboard or controller also have to support).
Provides easy way to replace, upgrade or expand storage without downtime.
Native SATA interface at 3Gbps transfer rates also supports Native Command Queuing (NCQ) to get the most performance from PC technology.
Up to 6 times faster than USB2.0 & IEEE1394.

Muse LanDisk Enclosure

Connecting everyone Application for 3.5" IDE HDD Clamshell Style

Features
Entry level NAS system, maximum support up to 400GB HDD
SAMBA and FTP server applicable
Smart DHCP configuration, no IP setting is required.
LAN Disk W/3 LED Indicator(Link/10-100/USB)
Data transfer Meter with blue backlight to indicate digital signal.
All aluminum Fanless design.
Silver body with graceful curve.
Screwless clamshell design easy to install 3.5" IDE HDD without tools.
Compact mount easily to stand.



P/N:A2334

Muse 2.5" Aluminum USB2.0 Enclosure

Graceful Screwless Shape application for 2.5" IDE HDD Clamshell Style

Features
All aluminum fanless design.
Silver body with graceful curve.
Screwless design easy to install 2.5" HDD without tools.
Blue LED light to indicate digital signal.
Cypress AT2+ chip -- speed & protect your digital data.
IDE to USB2.0 interface -- the most compatibility.
USB Y-cable support signal&power without power adapter.
Transfer speed up to 480Mbps.



P/N:A2291

Max4 2.5" Aluminum USB2.0 Enclosure

Simple Geometric Fanless Shape Application for 2.5" IDE HDD

Features
Aluminum spreader fanless design.
Silver body with graceful black adorn.
Metal homocentric polished diagram.
Blue LED indicate data transfer signal.
Cypress AT2+ chip - speed & protect your digital data.
IDE to USB2.0 interface - the most compatibility.
USB Y-cable support signal&power without power adapter.
Transfer speed up to 480Mbps



P/N:A2294

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Hardcano 14 PN:A2321

Aluminum 3.5"HDD Clamshell Cooler Application for 5.25" Drive Bay

Clamshell design for easy installation.
All Aluminum heat sink helps spreading heat.
Wire meshes develop the airflow.
Blue mystic LED streamer shines your system.
The fully anti-shock protection guards your storage system.
Application for 3.5"HDD of IDE, SCSI, SATA, SAS interface.



O₃ Air Cleaner P/N:A2324

Create a comfortable working place for you Application for standard 5.25" driver bay

Air cleaning cooler.
Ozone could be denicotinized and antisepticised.
Ozone is safe that only produces trace amounts of nitrogen oxide, and is the safest, most effective air cleaning tool.
Help cooling your computer system.
Application for standard 5.25" driver bay of PC system.



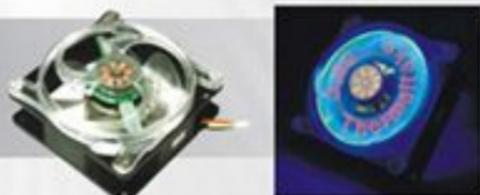
iFlash12 DC Fan P/N:A2346

Alternating blue, red and green LED lights create dazzling atmosphere.
120x120x28 Fan (1600RPM, 16dBA)
Low speed fan with minimal noise level.
Easy installation.



iFlash Mini DC Fan P/N:A2345

80x80x25 Fan (2000RPM, 21dBA)
Eight Red LED shining fantastic LOGO words.
Real-time environment temperature display.
Rotating and dancing "Thermaltake" Logo.



Silent CAT - 12CM FAN P/N:A2329

Silent Performance 16dBA

120x120x25 Fan.
Multi-directional air intake.
Excellent silent & performance.
Application for 12CM Combo(Cool series & Chassis)



Silent Wheel - 13CM FAN P/N:A2330

Upgrade your 12cm cooler

Compatible with standard 12cm Fan holes
Excellent silent & performance.
Easy Installation.
Strongly recommend using these fan with SonicTower.
(CL-P0071)



Tai-Chi M Notebook Cooler P/N:A2326

All Aluminum Space-saving Folding Design

Modernized black-silver aluminum extrusion pad
Space-saving Folding design for easy storing.
Ergonomic wrist pad design for maximum comfort.
Adapter-free design, powered by notebook's USB port.
Two silent 7cm fans(1000RPM,14dBA) with on/off switch.
Retractable stationery tray.



Devil and TT - A Formidable Partnership



Since the beginning of 2005 the business relationship between Devil and TT has been very positive. For more and more specialized trade customers from Devil TT has proved itself as an innovative computer case manufacturer with excellent value for money medium and high end areas. As well as for the current ATX cases and the brand new HTPC systems in Hifi-Format we

are noticing increasing demand and growing brand loyalty. With its HTPC cases like Bach, Mozart or Amor TT has positioned itself at the forefront of the multimedia future. The attractive assortment of TT cases fits in very well with the needs of our dealers, nice design, well thought out functionality, easy installation and fittings with good documentation to round off the offer. Not only modding enthusiasts will profit from TT. Devil offers a wide choice of TT cases daily. Who ever orders up to 18.30 is guaranteed delivery the following day.



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Thermaltake -The most unique and innovative companies in the hardware business



Mr. Odd Vestnes, Managing Director of Asian Distribution as author of this. We have now been distributor of Thermaltakes fantastic products for nearly 2 years and we are extremely pleased and honored to be able to work with a vendor like them. Thermaltake is for sure one of the most unique and innovative companies in the IT hardware business. They are always coming up with new and innovative products to match the

trend in the market. They are for sure one of the market leaders in design, quality and performance. Thermaltake is also a very unique company when it comes to customer relations. Normally we have a supplier vendor relationship with our vendors, but with Thermaltake we feel like we are partners trying to achieve the same common goal and that is of course to sell Thermaltakes fantastic products."



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