

# User's Manual

*Incredible 500W+ TDP*

**LIQTECH**



A I I - I N - O N E L I Q U I D C P U C O O L E R

**AMD**  
Threadripper

SocketTR4  
Ready



**ENERMAX**  
POWER. INNOVATION. DESIGN.



## 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.

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](mailto:enermax@enermax.com.tw)

ENERMAX Technology Corporation, 15F-2, No. 888, Jing-Guo Road, Taoyuan City (330), Taiwan (R.O.C.), Tel. +886-3-316-1675, Fax. +886-3-346-6640

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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 failure. 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.

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

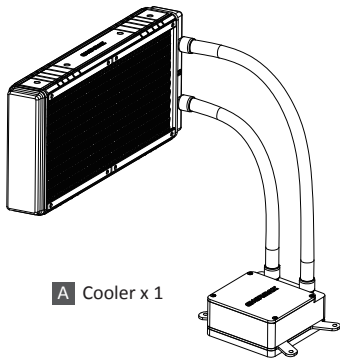
If the goods is found defective within the period of warranty from the date of purchase, please contact ENERMAX or your purchased retail shop/agent.

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

# Specification

Model		ELC-LTTR240-TBP	ELC-LTTR280-TBP	ELC-LTTR360-TBP
Cold Plate	Material	Copper		
Pump	Bearing	Ceramic nano PI bearing		
	MTBF	100,000 hours		
	Motor Speed	3000 rpm		
	Rated Voltage	12 V		
	Rated Current	0.4 A		
Radiator	Dimension	274 x 120 x 39 mm	313 x 140 x 28 mm	394 x 120 x 28 mm
	Material	Aluminum		
Tube	Material	Polyamide (PA) rubber tube		
	Length	400 mm		
Weight (w/o fan)		1100 g	1260 g	1395 g
Bracket	Compatibility	AMD <sup>®</sup> TR4 / SP3		
Fan	Dimension	120 x 120 x 25 mm	140 x 140 x 25 mm	120 x 120 x 25 mm
	Bearing	Twister Bearing		
	MTBF	≥ 160,000 hours		
	Speed	500 - 2300 rpm	500 - 1500 rpm	500 - 2300 rpm
	Rated Voltage	12 V		
	Rated Current	0.3 A	0.2 A	0.3 A
	Air Flow	23.81 ~ 102.17 CFM 40.45 ~ 173.59 m <sup>3</sup> /h	31.86 ~ 80.71 CFM 54.13 ~ 137.13 m <sup>3</sup> /h	23.81 ~ 102.17 CFM 40.45 ~ 173.59 m <sup>3</sup> /h
	Static Pressure	0.673 ~ 6.28 mm-H <sub>2</sub> O	0.960 ~ 4.812 mm-H <sub>2</sub> O	0.673 ~ 6.28 mm-H <sub>2</sub> O
	Noise Level	14 ~ 28 dBA	14 ~ 25 dBA	14 ~ 28 dBA
	Connector	4 pin PWM		
Warranty		2 years		

# Part List (LIQTECH TR4 240)



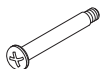
**A** Cooler x 1



**B** Fan x 2



**C** Case Screw x 8



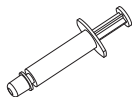
**D** Fan Screw x 8



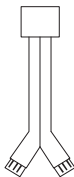
**E** AMD TR4 / SP3  
Screw x 4



**F** Spring Screw x 4



**G** Thermal Grease x 1

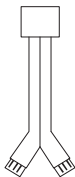
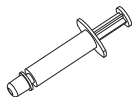
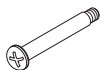
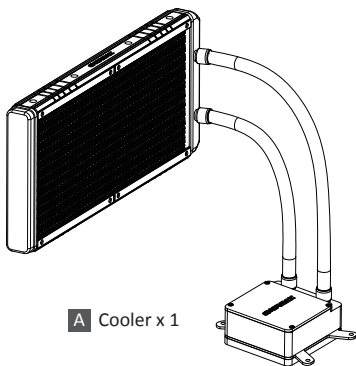


**H** PWM Y cable x 1

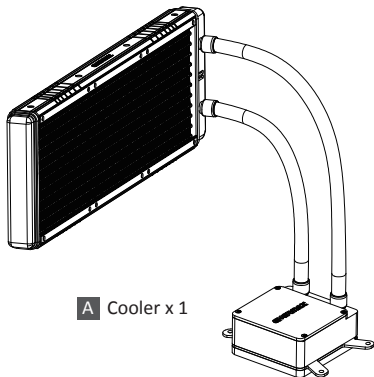


**I** Molex adapter x 1

# Part List (LIQTECH TR4 280)



# Part List (LIQTECH TR4 360)



**A** Cooler x 1



**B** Fan x 3



**C** Case Screw x 12



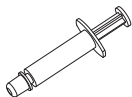
**D** Fan Screw x 12



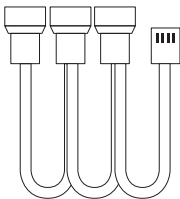
**E** AMD TR4 / SP3  
Screw x 4



**F** Spring Screw x 4



**G** Thermal Grease x 1



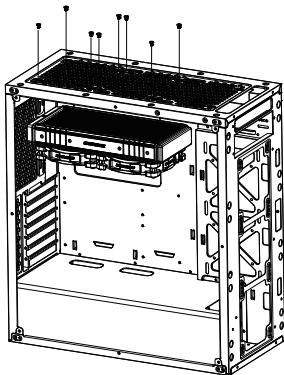
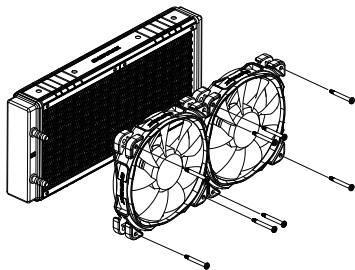
**H** PWM 3 to 1 cable x 1



**I** Molex adapter x 1



## Step 1



**EN** Attach the fan and the radiator to the chassis

**DE** Schrauben Sie den Lüfter und den Radiator am Gehäuse fest.

**FR** Fixez le ventilateur et le radiateur sur le châssis

**IT** Fissare la ventola e il radiatore al case

**ES** Fijar el ventilador y el radiador a la caja

**PL** Zamontuj wentylator i radiator na obudowie komputerowej.

**TW** 安裝風扇及散熱排於機殼

**CN** 将风扇以及散热排安装在机箱上

**JP** ファンをラジエーターに設置してケースに取り付けて下さい。

**KR** 팬과 방열기를 PC 케이스에 부착하십시오.

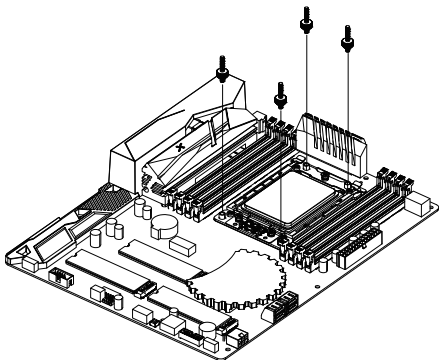
**ID** Pasang kipas dan radiator ke casing

**RU** Закрепите вентилятор и радиатор на корпусе.

**IR** فن و رادیاتور را به کیس متصل نمایید.

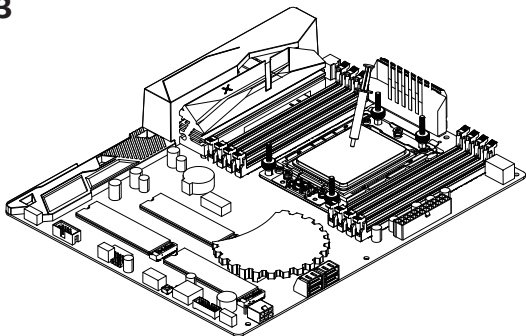
# AMD Installation

## Step 2



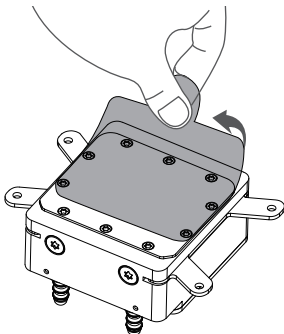
- EN** Tighten the AMD TR4 / SP3 screw to the motherboard
- DE** Schrauben Sie die Backplate mit den passenden AMD TR4 / SP3-Abstandshaltern am Mainboard fest.
- FR** Serrez la vis du support AMD TR4 / SP3 à la carte-mère
- IT** Fissare i montanti per AMD TR4 / SP3 alla scheda madre
- ES** Fije los tornillos de pilar para AMD TR4 / SP3 a la placa madre
- PL** Przykręć płytę mocującą za pomocą przeznaczonych do platformy AMD TR4 / SP3 nakrętek dystansowych.
- TW** 將AMD TR4 / SP3螺絲固定於主板上
- CN** 將AMD TR4 / SP3螺絲固定在主板的相应位置上
- JP** AMD TR4 / SP3 の場合、2011/2066専用ネジを使用しバックプレートをマザーボードに固定して下さい。
- KR** AMD TR4 / SP3 지지대를 마더보드에 고정하십시오.
- ID** Kencangkan AMD TR4 / SP3 sekrup ke motherboard
- RU** Затяните гайки «Intel AMD TR4 / SP3» на материнской плате.
- IR** پیچ مربوط به AMD TR4 / SP3 به مادربرد محکم کنید

## Step 3



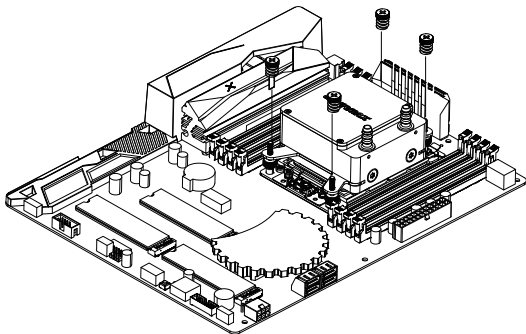
- EN** Apply the thermal grease evenly on the CPU surface
- DE** Verteilen Sie gleichmäßig eine dünne Schicht Wärmeleitpaste auf der CPU-Oberfläche.
- FR** Appliquez une couche uniforme de pâte thermique sur la surface du CPU
- IT** Applicare in modo uniforme la pasta termica sulla superficie della CPU
- ES** Aplicar de forma uniforme la pasta térmica en la superficie de la CPU
- PL** Nałóż równomiernie cienką warstwę pasty termoprzewodzącej na metalową osłonę na procesorze.
- TW** 將散熱膏均勻的塗抹於CPU表面
- CN** 请在CPU表面均与涂抹散热硅脂
- JP** サーマルグリスをCPUの表面に均一になるよう薄く塗って下さい。
- KR** CPU 표면에 구리스를 평평히 펴 바르십시오.
- ID** Oleskan secara merata thermal pasta ke permukaan CPU
- RU** Нанесите термопасту равномерно на поверхность процессора.
- IR** خمیر حرارتی را بر روی سطح پردازنده پخش نمایید.

## Step 4



- EN** Remove the protect film from the cold-plate
- DE** Entfernen Sie die Schutzfolie von der Kühlplatte der Pumpe.
- FR** Retirez le film protecteur de la plaque-froide
- IT** Rimuovere la pellicola di protezione dalla piastra di raffreddamento
- ES** Quite la película de protección del bloque de refrigeración
- PL** Zdjąć folię ochronną z bloku wodnego.
- TW** 取下水冷頭保護貼膜
- CN** 使用时请将水冷头保护贴膜取下
- JP** コールドプレートの保護フィルムを外して下さい。
- KR** 쿨드 플레이트의 보호 필름을 제거하십시오.
- ID** Lepaskan pita pelindung dari plat pendingin
- RU** Пожалуйста, удалите защитную крышку с охлаждающей пластины
- IR** صفحه محافظ را از زیر سطح بلاک-پمپ جدا کنید

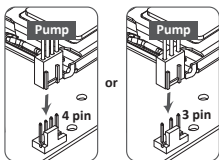
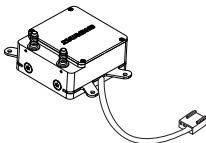
## Step 5



- EN** Place the pump on the CPU and tighten the spring screws until all four corners are secured
- DE** Platzieren Sie die Pumpe auf der CPU und drehen Sie die Federschrauben fest bis alle vier Seiten fixiert sind.
- FR** Placez la pompe sur le CPU et serrez les vis à ressort jusqu'à ce que les quatre coins soient bien fixés
- IT** Posizionare la pompa sulla CPU e fissare le viti fino a che tutti e quattro gli angoli siano fissati.
- ES** Coloque la bomba en la CPU y apriete los tornillos hasta que las cuatro esquinas estén fijadas.
- PL** Umieść pompę na procesorze i przykręć wszystkie cztery śrubki sprężyste.
- TW** 將水泵至於CPU上並鎖緊四邊彈簧螺絲
- CN** 將水泵置于CPU上并确认四边的弹簧螺丝拧紧
- JP** 専用ネジを使用して水冷ポンプをCPUの上に固定して下さい。
- KR** CPU 에 펌프를 놓고 펌프의 네 코너가 단단히 고정 될 때까지 스프링 나사를 고정하십시오.
- ID** Tempatkan pompa pada CPU dan kencangkan keempat sekrup sampai keempat sudut aman
- RU** Установите насос на процессоре и затяните все 4 гайки.
- IR** پمپ را بر روی پردازنده قرار دهید و پیچهای فنری را محکم کنید تا هر چهارتای آنها سفت شود

# AMD Installation

## Step 6



### EN Connect the pump power connector to the motherboard.

Notice: If you recognize that your motherboard's CPU fan or PWM sockets do not provide enough voltage to power the pump, please use the included 4-pin Molex adaptor and connect the pump directly to your PSU.

### DE Schließen Sie den Stromstecker der Pumpe am Mainboard an.

Hinweis: Wenn Sie bemerken, dass die CPU-Fan- und PWM-Sockel Ihres Mainboards für den Betrieb der Pumpe eine zu geringe Spannung erreichen, schließen Sie diese bitte über den mitgelieferten 4-Pin-Molex-Adapter direkt an das Netzteil an.

### FR Branchez le connecteur d'alimentation de la pompe à la carte-mère.

Remarque : Si vous constatez que le connecteur du ventilateur CPU ou le PWM de la carte mère ne fournissent pas suffisamment de courant à la pompe, nous vous recommandons d'utiliser le câble adaptateur 4 broches Molex inclus que vous connecterez à l'alimentation.

### IT Collegare il connettore di alimentazione della pompa alla scheda madre.

Avviso: se notate che il socket PWM o il socket per la ventola della CPU non forniscono un tensione sufficiente per alimentare la pompa, si prega di utilizzare l'adattatore Molex a 4 pin in dotazione e collegare la pompa direttamente alla PSU.

### ES Conecte el cable de la bomba a la placa madre.

Aviso: Si se nota que el enchufe PWM o el enchufe para el ventilador de la CPU no proporcionan suficiente voltaje para alimentar la bomba, se ruega utilizar el adaptador Molex de 4 patillas incluido y conectar la bomba directamente a la fuente de alimentación.

### PL Podłącz wtyczkę do zasilania pompy do płyty głównej.

Uwaga: Jeśli gniazda płyty głównej „CPU Fan” oraz PWM nie zapewniają wystarczającego napięcia do zasilania pompy, proszę podłączyć pompę bezpośrednio do zasilacza za pomocą 4-pinowego adaptera Molex.

### TW 連接水泵電源於主板

注意：為確保水泵維持長時間全速運轉，若您主機板上的CPU風扇或PWM插座未能提供足夠電壓驅動水泵時，建議您使用內附4pin轉接線連接至電源供應器，以達到產品最佳效能。

### CN 请将水泵电源与主板相应供电口连接

注意：为确保水泵能长时间全速运转，若您主板上的CPU风扇或者PWM接口不能提供足够电压带动水泵，建议使用内附4pin转接线连接至电源，以达到产品最佳效能。

### JP 水冷ポンプのコネクターをマザーボードに接続して下さい。

注意：ご使用のマザーボードのCPUファンコネクターまたはPWMファンコネクターがポンプに十分な電圧を供給しない場合は、付属の4-pin Molex変換アダプターをご使用いただき、電源ユニットに直接ポンプを接続してください。

### KR 펌프 전원 커넥터를 마더보드에 연결하십시오.

주의사항 : 메인보드 CPU Fan 또는 PWM 소켓에 연결 했을 시 충분한 전압을 펌프로 제공을 하지 못하면, 별도로 제공한 4핀 Molex 케이블을 이용하여 파워서플라이에 직접연결 하십시오.

### ID Hubungkan konektor daya pompa ke motherboard.

Catatan : jika anda menyadari socket power cpu fan atau pwm motherboard anda, tidak bisa memberikan daya yang cukup untuk pompa watercooling, silahkan menggunakan 4pin molex adaptor dan sambungkan langsung ke power PSU.

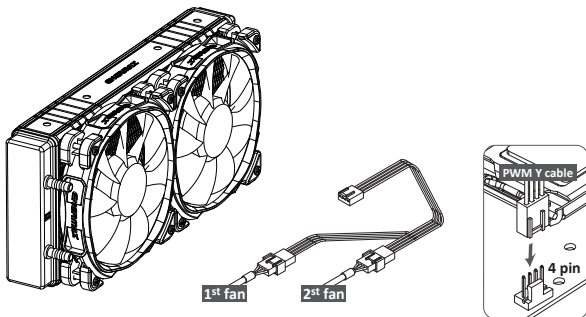
### RU Пожалуйста, подключите разъем питания насоса к материнской плате.

Примечание: Если Вы заметили, что разъем материнской платы выдаёт низкое напряжение для работы насоса, пожалуйста, подключите насос с помощью прилагаемого 4-контактного Molex адаптера непосредственно к блоку питания.

### IR فیش برق پمپ را به مادر برد متصل نمایید

توجه : اگر تشخیص دادید که سوکت برق فن بردازنده یا برق PWM روی مادربرد ولتاژ مناسب برای کولر پمپ را تامین نمیکند، لطفاً از تبدیل چهارپین پاور که در جعبه قرار دارد برای اتصال مستقیم به پاور استفاده کنید.

## Step 7



- EN** Connect the fan connector to the motherboard
- DE** Schließen Sie den 4-Pin-PWM-Stecker des Lüfters am Mainboard an.
- FR** Branchez le connecteur du ventilateur à la carte-mère
- IT** Collegare il connettore della ventola alla scheda madre
- ES** Conecte el conector del ventilador a la placa madre
- PL** Podłącz wtyczkę 4-pin PWM wentylatora do płyty głównej.
- TW** 連接風扇電源於主板
- CN** 请将风扇电源与主板上的相应供电口连接
- JP** ファンコネクターをマザーボードに接続して下さい。
- KR** 팬 커넥터를 마더보드에 연결하십시오.
- ID** Hubungkan konektor kipas ke motherboard
- RU** Пожалуйста, подключите разъем вентилятора к материнской плате.
- IR** فیش فن را به مادربرد متصل نمایید.

