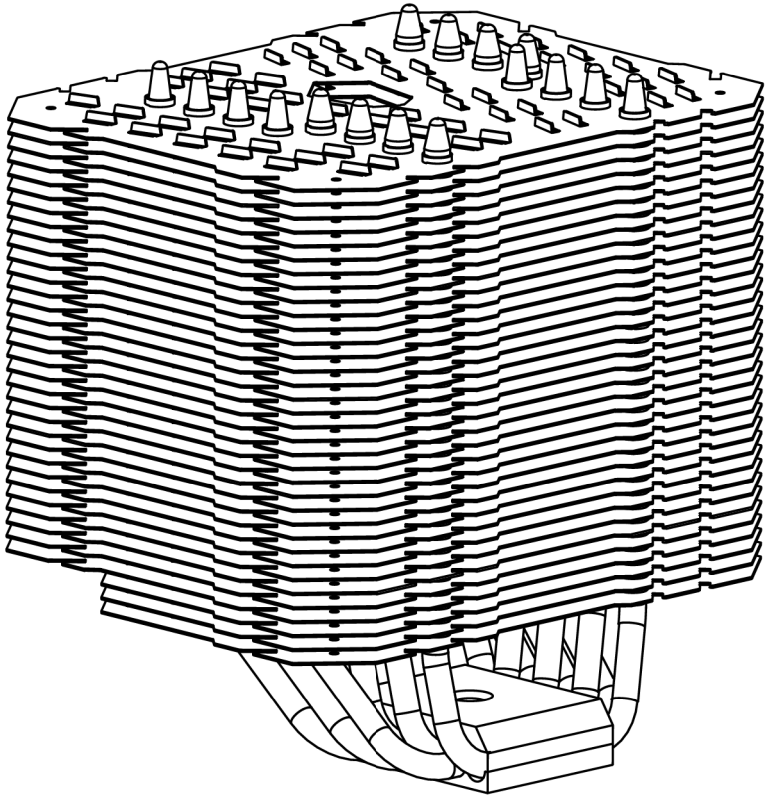


Thermalright

HR-22

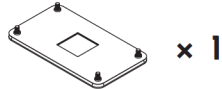
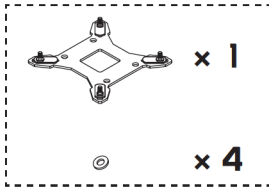
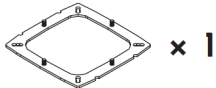


HR-22

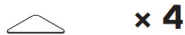
Assembly package



4



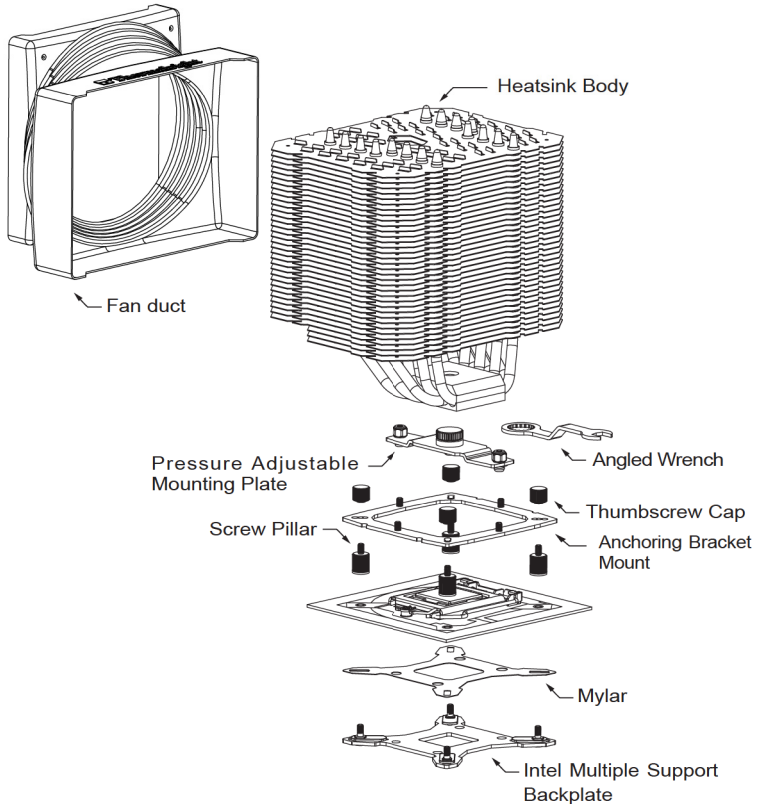
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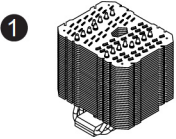
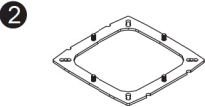
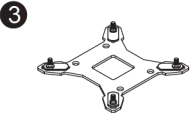
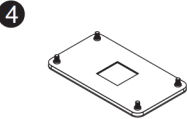




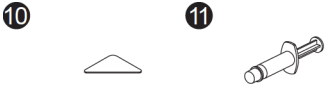
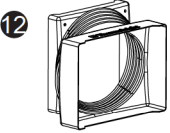
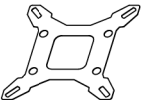
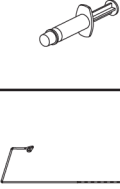
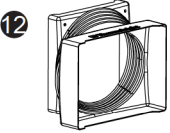
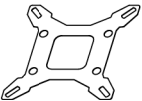
8

Exploded view

Important! Before proceeding with installation, please check for the most up-to-date instructions at www.thermalright.com

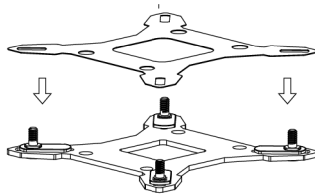


Component

Installation Instructions:

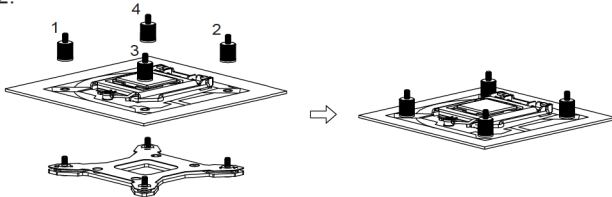
Step 1:



Step 1 : Backplate Installation

Choose the correct Backplate according to your system (intel), and adjust the Screw Cylinders according to your platform (115X/1366). See picture to the right. Place the included Mylar Film on the Backplate with four protruding screws going thru four holes on the Mylar Film.

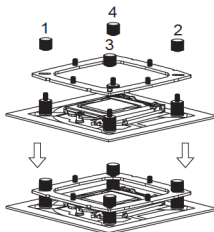
Step 2:



Step 2 : Backplate Installation (Cont'd)

Pass the Backplate through mounting holes on the mainboard, then fit the Screw Pillars to the Backplate screws in a criss-cross pattern.

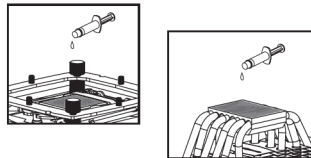
Step 3:



Step 3 : Anchoring Mount Installation

Place the Anchoring Bracket Mount on top of the four Screw Pillars. Tighten the 4 Screw Pillars with the Thumbscrew Caps in a criss-cross pattern.

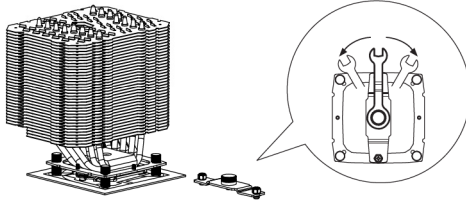
Step 4:



Step 4 : Applying Thermal Paste

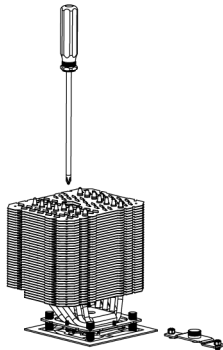
Apply the Thermal Paste to the base of the Heatsink and the surface of the CPU evenly.

Step 5:



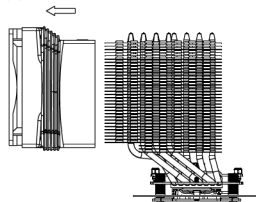
Step 5 : Mounting Plate
Make the Mounting plate to go through the heatsink.

Step 6:



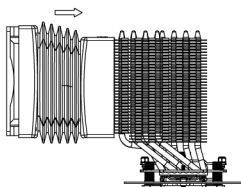
Step 6 : Place the heatsink on top of the cpu, and then tighten the hexagonal screws on both ends of the mounting plate. Use the included screw driver to fix the hexagonal screw underneath the heatsink.

Step 7:



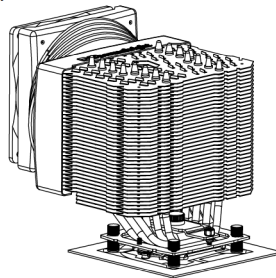
Step 7 : First, compress (squeeze it together) the fan duct so that it can easily fit between the HR-22 and the 12cm(or 14 cm) system exhaust fan at the rear of your case. Connect the end with the Thermalright logo of the fan duct to the rear 120 mm case exhaust fan.

Step 8:



Step 8 : by expanding the fan duct to connect the back end to the HR-22 heat sink.

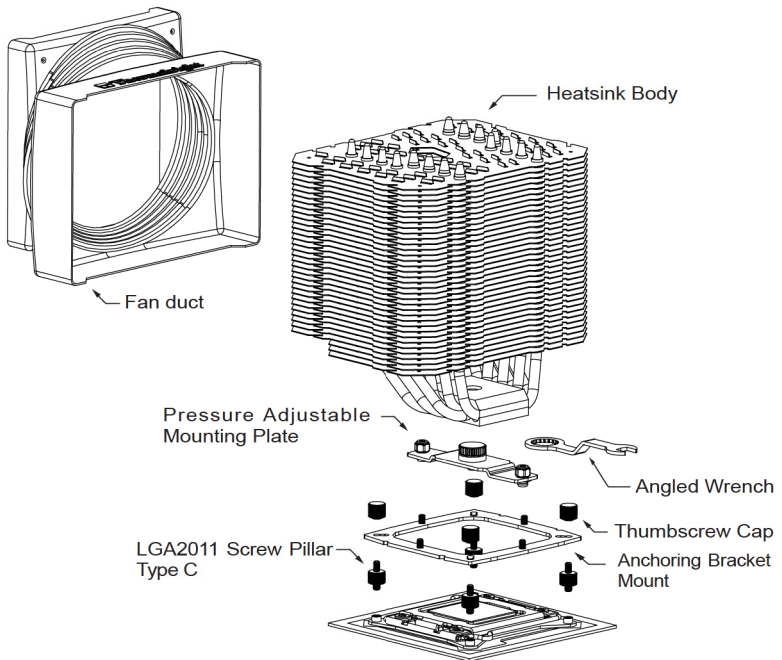
Step 9:



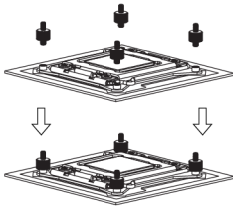
Step 9 : Installation completed.

Exploded view

Important! Before proceeding with installation, please check for the most up-to-date instructions at www.thermalright.com



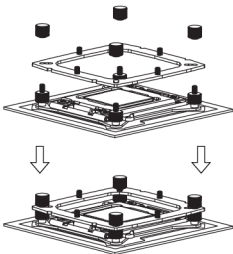
Step 1:



Step 1 : Screw Pillar Installation

Screw on the 4 LGA2011 Type C Screw Pillars into the heatsink studs on the Intel ILM Assembly Frame around the processor socket.

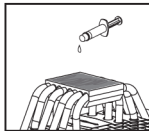
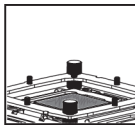
Step 2:



Step 2 : Anchoring Mount Installation

Place the Anchoring Bracket Mount on top of the 4 LGA2011 Type C Screw Pillars. Then tighten the 4 LGA2011 Type C Screw Pillars with the Thumbscrew Caps.

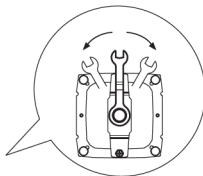
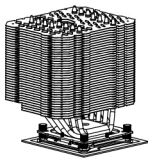
Step 3:



Step 3 : Applying Thermal Paste

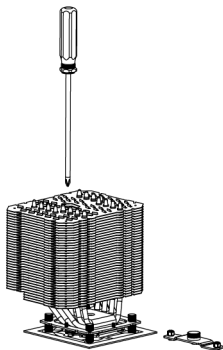
Apply the Thermal Paste to the base of the Heatsink and the surface of the CPU evenly.

Step 4:



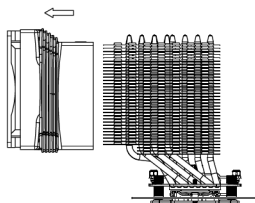
Step 4 : Mounting Plate
Make the Mounting plate to go through the heatsink.

Step 5:



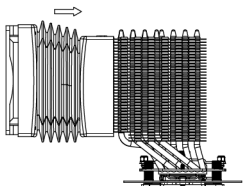
Step 5 : Place the heatsink on top of the cpu, and then tighten the hexagonal screws on both ends of the mounting plate.
Use the included screw driver to fix the hexagonal screw underneath the heatsink.

Step 6:



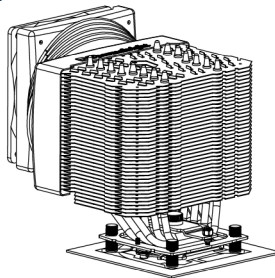
Step 6 : First, compress (squeeze it together) the fan duct so that it can easily fit between the HR-22 and the 12cm(or 14 cm) system exhaust fan at the rear of your case. Connect the end with the Thermalright logo of the fan duct to the rear 120 mm case exhaust fan.

Step 7:



Step 7 : by expanding the fan duct to connect the back end to the HR-22 heat sink.

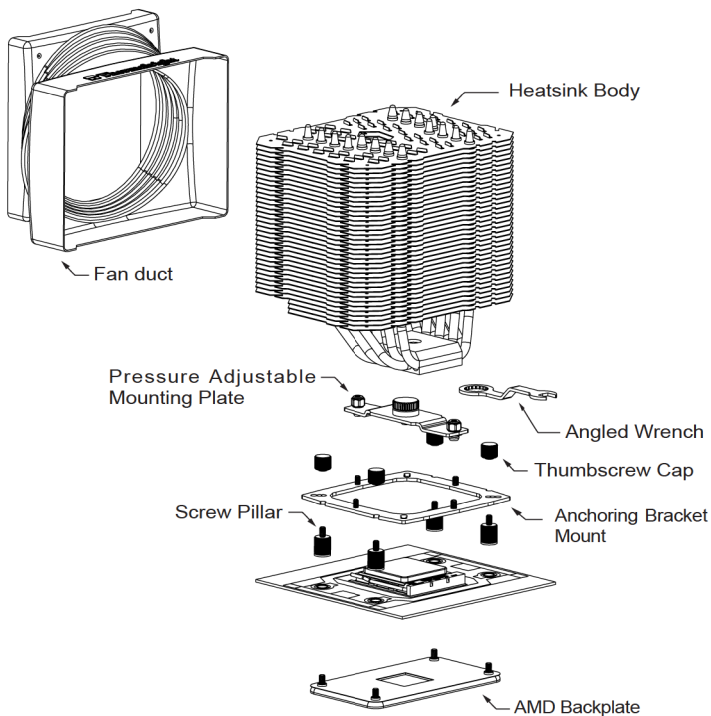
Step 8:



Step 8 : Installation completed.

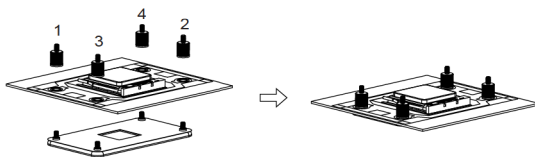
Exploded view

Important! Before proceeding with installation, please check for the most up-to-date instructions at www.thermalright.com



Installation Instructions:

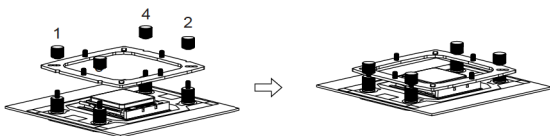
Step 1:



Step 2 : Backplate Cap

Pass the Backplate through mounting holes on the mainboard, then fit the Screw Pillars to the Backplate screws in a criss-cross pattern.

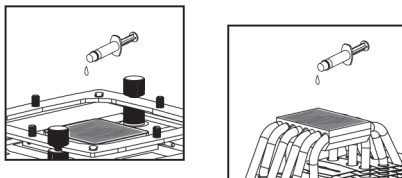
Step 2:



Step 3 : Anchoring Mount Installation

Place the Anchoring Mount on the Screw Nuts. Use the four M3L6 Screws to fix the Anchoring Mount on the Screw Nuts in a criss-cross pattern.

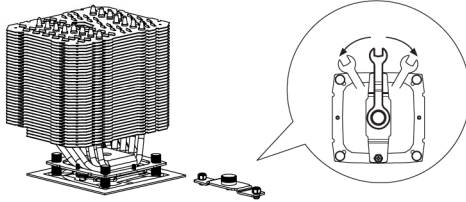
Step 3:



Step 3 : Applying Thermal Paste

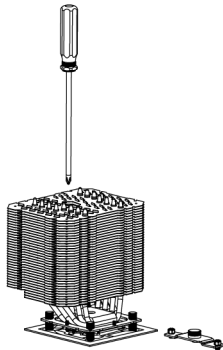
Apply the Thermal Paste to the base of the Heatsink and the surface of the CPU evenly.

Step 4:

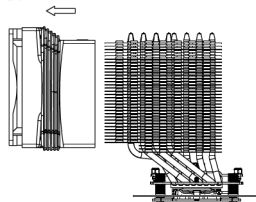


Step 5: Mounting Plate
Make the Mounting plate to go through the heatsink.

Step 5:



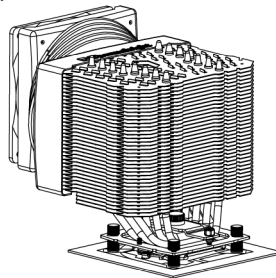
Step 6:



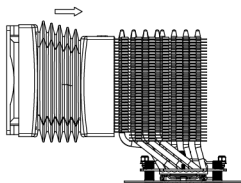
Step 7 : First, compress (squeeze it together) the fan duct so that it can easily fit between the HR-22 and the 12cm(or 14 cm) system exhaust fan at the rear of your case. Connect the end with the Thermalright logo of the fan duct to the rear 120 mm case exhaust fan.

Step 6 : Place the heatsink on top of the cpu, and then tighten the hexagonal screws on both ends of the mounting plate. Use the included screw driver to fix the hexagonal screw underneath the heatsink.

Step 8:

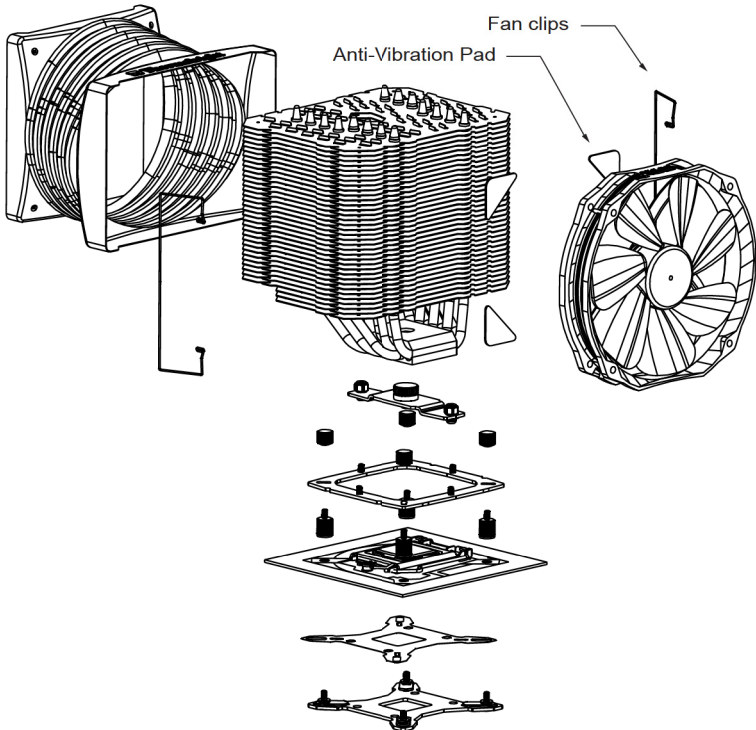


Step 7:

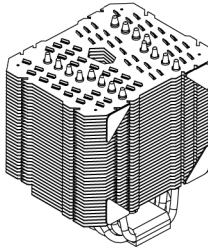


Step 8 : by expanding the fan duct to connect the back end to the HR-22 heat sink.

Step 9 : Installation completed.

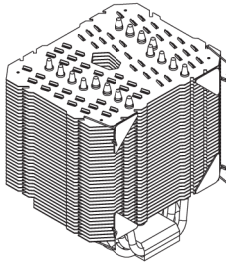


Step 1:



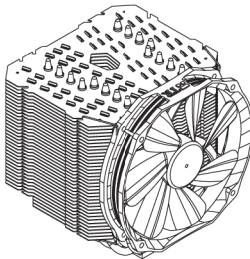
Step 1 : Apply Anti-Vibration padding to 4 corners on the heat-sink.

Step 2:



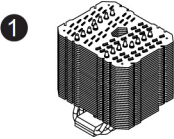
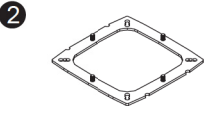
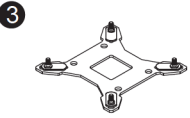
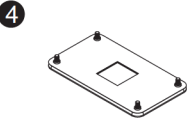








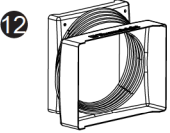
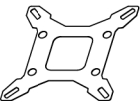
Step 2 : Put the fan clips into the dents on two sides of the heat-sink body and make the two ends of the fan clip go through holes on flange the 140mm fan.

Step 3:



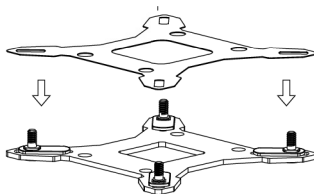
Step 3 : Fan installation completed.

Komponenten

		
		
		
		
		
1 Kühlkörper ×1	2 Montagerahmen ×1	3 Intel Multiplattform Backplate ×1
4 AMD Backplate ×1	5 Anpressdruck justierungsplatte ×1	6 Adapterschraube ×4
7 LGA2011 Adapter-schraube Type C ×4	8 Rändelmutter ×4	9 gekröpfter Vielzahn-schlüssel ×1
10 Anti-Vibrationspad ×8	11 Wärmeleitpaste ×1	12 Fan duct ×2 (120 + 140 mm)
13 Leiterschuttfolie ×1	14 Lüfterklammer×2	

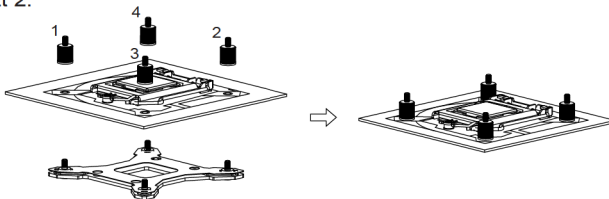
Installationsanleitung:

Schritt 1:



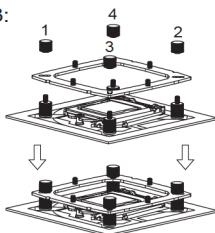
Wählen Sie die korrekte Backplate passend zu Ihrem System (Intel) und justieren die hochstehenden Gewinde entsprechend Ihres Sockettyps. Legen Sie die mitgelieferte Leiterschuttfolie auf die Backplate, sodass die hervorstehenden Schraubengewinde durch die entsprechenden Löcher der Folie gehen.

Schritt 2:



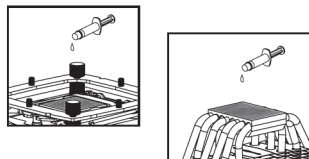
Führen Sie die Backplate von unten durch die Montagebohrungen des Mainboards und schrauben die Adapterschrauben von oben in diagonaler Reihenfolge auf die hervorstehenden Schraubengewinde.

Schritt 3:



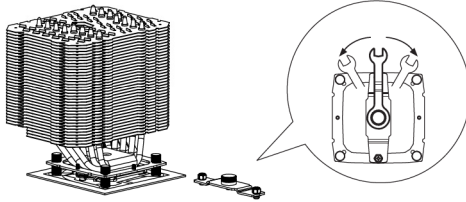
Setzen Sie den Montagerahmen auf die vier Schraubenzylinder. Verwenden Sie die vier Rändelmuttern, um den Montagerahmen auf den Adapterschrauben zu befestigen.

Schritt 4:



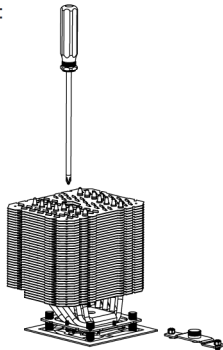
Tragen Sie eine hauchdünne Schicht Wärmeleitpaste auf der Oberfläche der CPU und auf der Unterseite des Kühlers auf.

Schritt 5:



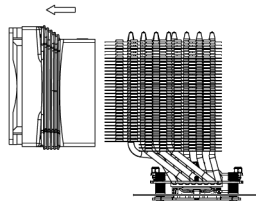
Führen Sie die Befestigungsplatte zwischen Kühlergrundplatte und Kühlfinnen durch den Kühlkörper.

Schritt 6:



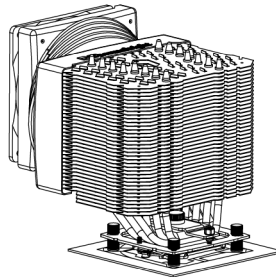
Platzieren Sie den Kühlkörper auf die CPU und ziehen die Sechskantschrauben an beiden Enden der Befestigungsplatte an. Verwenden Sie den mitgelieferten Schraubendreher für die Schraube unterhalb des Kühlkörpers.

Schritt 7:

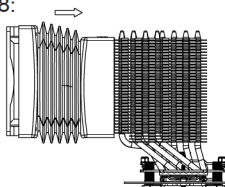


Drücken Sie den Fan Duct zusammen, so dass dieser zwischen den HR-22 und den hinteren 12 bzw. 14 cm (rausblasenden) Gehäuselüfter Ihres Systems passt. Verbinden Sie das mit dem Thermalright Logo versehene Ende des Fan Ducts mit dem Lüfter.

Schritt 9:



Schritt 8:

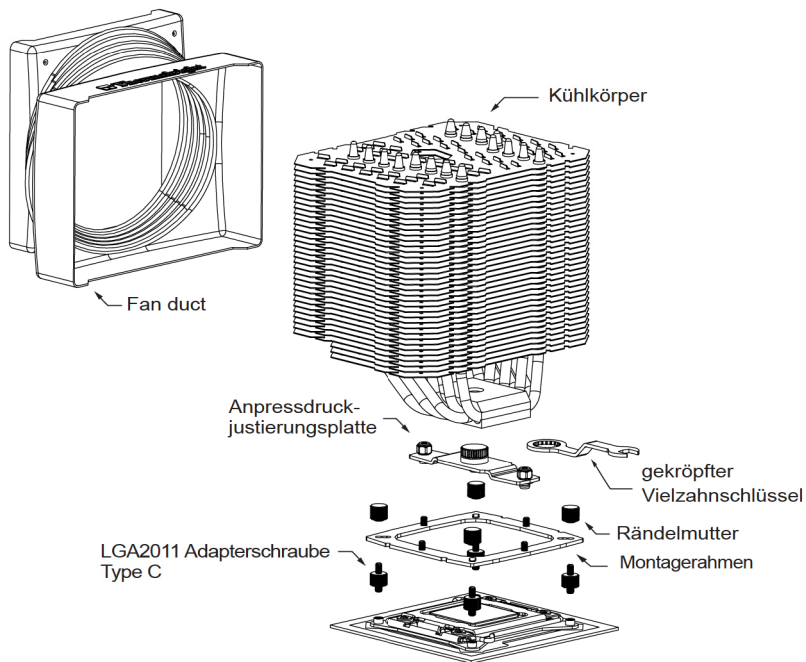


Ziehen Sie den Fan Duct auseinander und verbinden nun das offene Ende mit dem HR-22 Kühlkörpers.

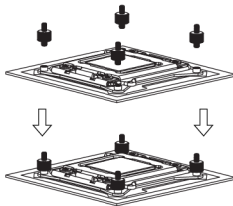
Die Installation ist jetzt abgeschlossen.

Explosionszeichnung

Important! Bitte prüfen Sie vor der Montage, ob es für Ihren Kühler aktualisierte Montagehinweise auf der Webseite www.thermalright.com verfügbar sind.

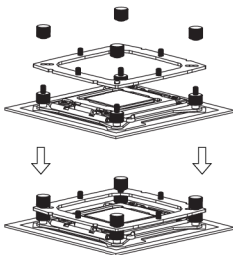


Schritt 1:



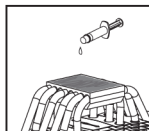
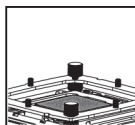
Schrauben Sie die vier LGA2011 Typ C Adapterschrauben in die Gewindebolzen auf dem Intel ILM Montagerahmen, der sich um den Prozessorsockel bendet.

Schritt 2:



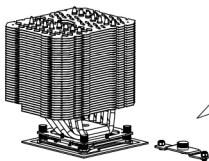
Setzen Sie den Montagerahmen auf die vier LGA2011 Typ C Adapterschrauben. Anschließend xieren Sie die vier LGA2011 Typ C Adapterschrauben mit den Rändelmuttern.

Schritt 3:



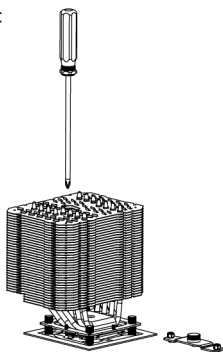
Tragen Sie eine hauchdünne Schicht Wärmeleitpaste auf der Oberäche der CPU und auf der Unterseite des Kühlers auf.

Schritt 4:



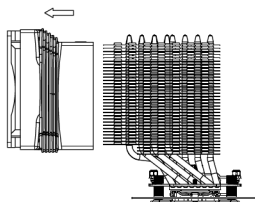
Führen Sie die Befestigungsplatte zwischen Kühlergrundplatte und Kühlfinnen durch den Kühlkörper.

Schritt 5:



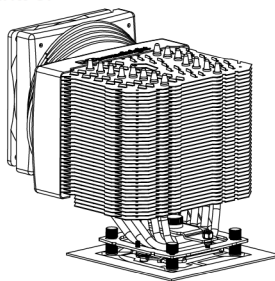
Platzieren Sie den Kühlkörper auf die CPU und ziehen die Sechskantschrauben an beiden Enden der Befestigungsplatte an. Verwenden Sie den mitgelieferten Schraubendreher für die Schraube unterhalb des Kühlkörpers.

Schritt 6:

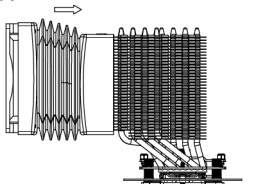


Drücken Sie den Fan Duct zusammen, so dass dieser zwischen den HR-22 und den hinteren 12 bzw. 14 cm (rausblasenden) Gehäuselüfter Ihres Systems passt. Verbinden Sie das mit dem Thermalright Logo versehene Ende des Fan Ducts mit dem Lüfter.

Schritt 8:



Schritt 7:

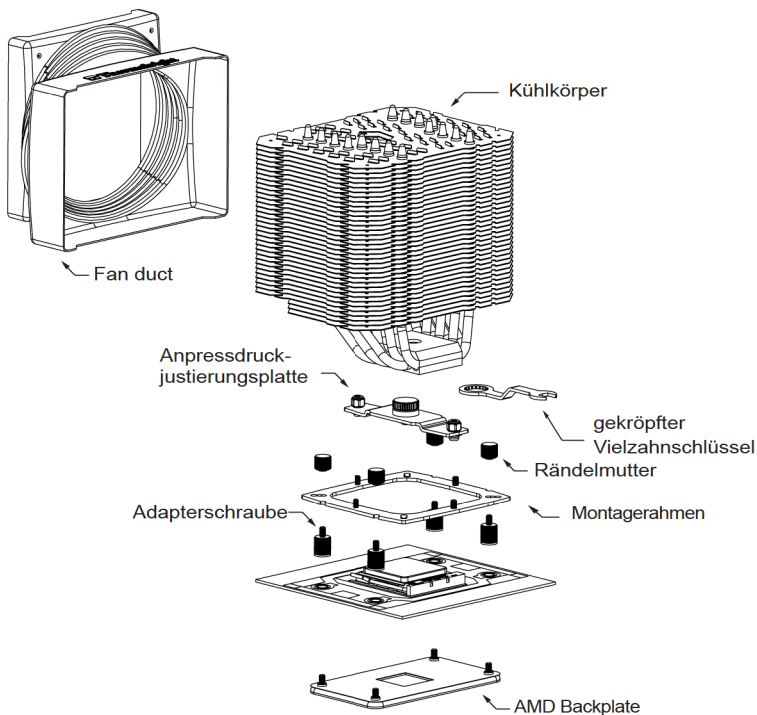


Ziehen Sie den Fan Duct auseinander und verbinden nun das offene Ende mit dem HR-22 Kühlkörpers.

Die Installation ist jetzt abgeschlossen.

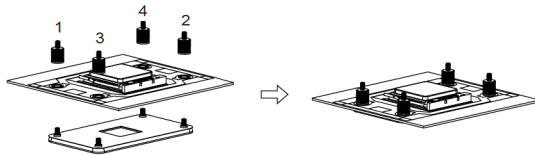
Explosionszeichnung

Important! Bitte prüfen Sie vor der Montage, ob es für Ihren Kühler aktualisierte Montagehinweise auf der Webseite www.thermalright.com verfügbar sind.



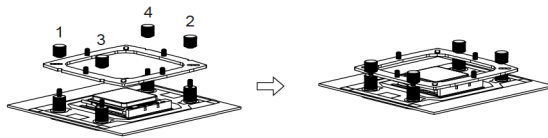
Installationsanleitung:

Schritt 1:



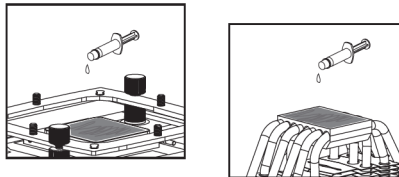
Nehmen Sie die Backplate für Ihr AMD System. Legen Sie diese von unten an Ihr Mainboard an, so dass die Gewindebolzen durch die Befestigungslöcher des Mainboards gehen. Schrauben Sie nun die Adapterschrauben von oben in die Gewindebolzen.

Schritt 2:



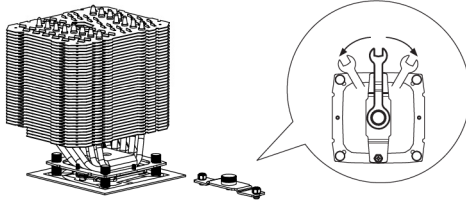
Setzen Sie den Montagerahmen auf die vier Schraubenzylinder. Verwenden Sie die vier Rändelmutter, um den Montagerahmen auf den Adapterschrauben zu befestigen.

Schritt 3:



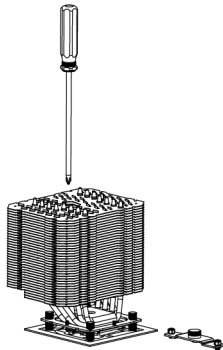
Tragen Sie eine hauchdünne Schicht Wärmeleitpaste auf der Oberäche der CPU und auf der Unterseite des Kühlers auf.

Step 4:

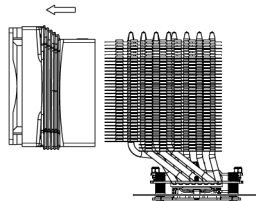


Führen Sie die Befestigungsplatte zwischen Kühlergrundplatte und Kühlrippen durch den Kühlkörper.

Step 5:



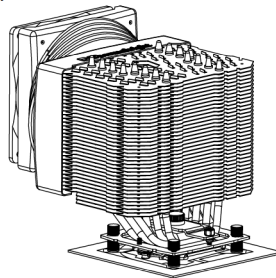
Step 6:



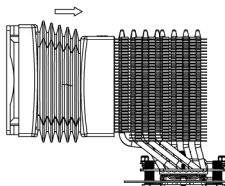
Drücken Sie den Fan Duct zusammen, so dass dieser zwischen den HR-22 und den hinteren 12 bzw. 14 cm (rausblasenden) Gehäuselüfter Ihres Systems passt. Verbinden Sie das mit dem Thermalright Logo versehene Ende des Fan Ducts mit dem Lüfter.

Platzieren Sie den Kühlkörper auf die CPU und ziehen die Sechskantschrauben an beiden Enden der Befestigungsplatte an. Verwenden Sie den mitgelieferten Schraubendreher für die Schraube unterhalb des Kühlkörpers.

Step 8:

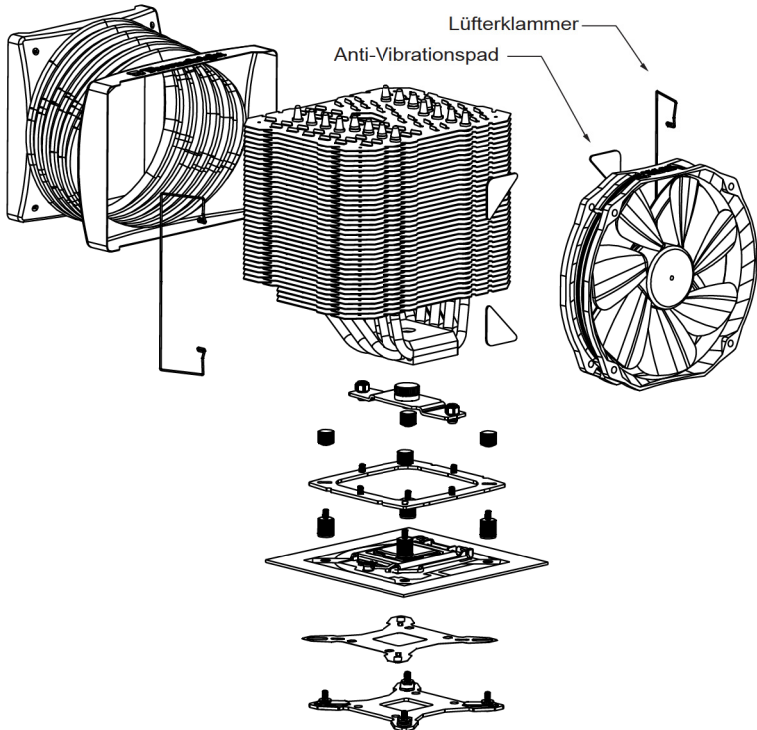


Step 7:

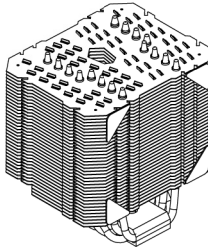


Ziehen Sie den Fan Duct auseinander und verbinden nun das offene Ende mit dem HR-22 Kühlkörpers.

Die Installation ist jetzt abgeschlossen.

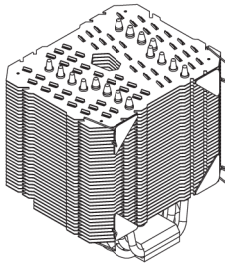


Schritt 1:



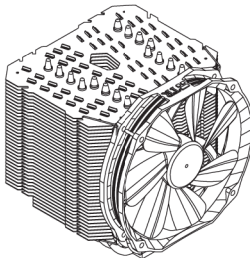
Bringen Sie die Anti-Vibrationspads an den 4 Ecken des Kühlkörpers an.

Schritt 2:



Stecken Sie die Lüfterklammern in die dafür vorgesehenen Einkerbungen an den beiden Seiten des Kühlers und führen die offenen Enden der Klammern in die Montagelöcher des 120 mm Lüfters.

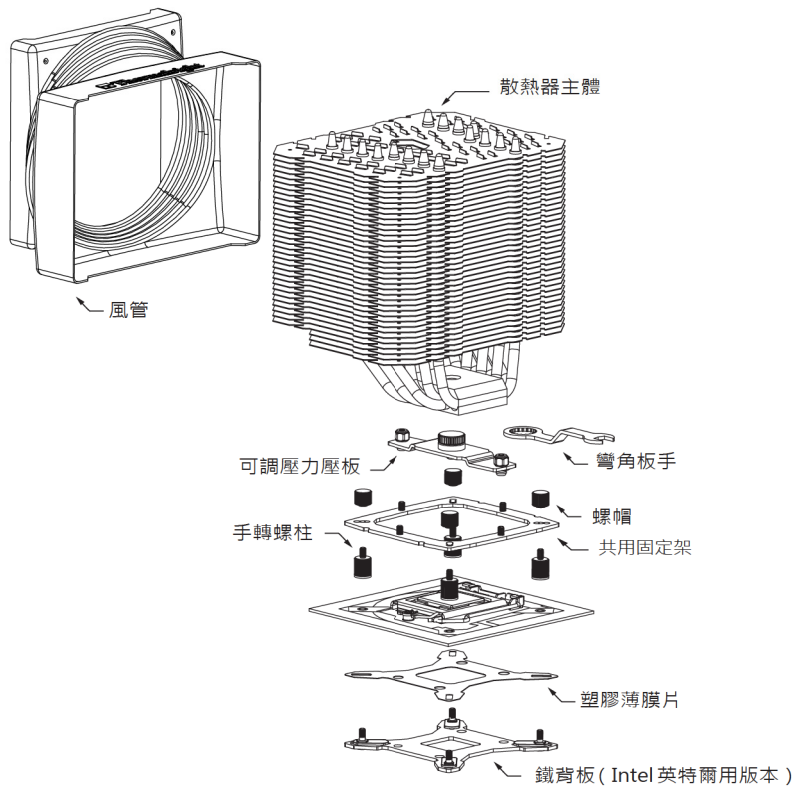
Schritt 3:



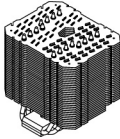
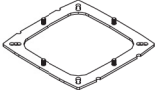
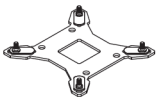
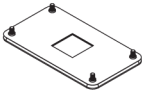








Die Lüfter Installation ist nun abgeschlossen.

分解圖

注意！在您安裝前請先至官網首頁是否有最新更新安裝指南
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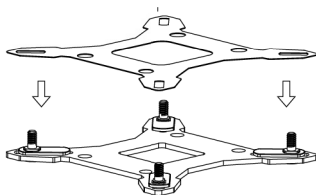


零件

		
		
		
		
<p>1 散熱器主體 x 1</p>	<p>2 共用固定架 x 1</p>	<p>3 鐵苜板 (Intel 英特爾用版本) x 1</p>
<p>4 鐵苜板 (AMD 用版本) x 1</p>	<p>5 可調壓力壓板 x 1</p>	<p>6 手轉螺柱 x 4</p>
<p>7 2011 手轉螺柱 x 4</p>	<p>8 螺帽 x 4</p>	<p>9 彎角扳手 x 1</p>
<p>10 風扇避震墊 x 4</p>	<p>11 CF3 導熱膏 x 1</p>	<p>12 風管 x 2 12 公分 (黃色) 14 公分 (紅色)</p>
<p>13 塑膠薄膜片 x 1</p>	<p>14 風扇線扣 x 2</p>	

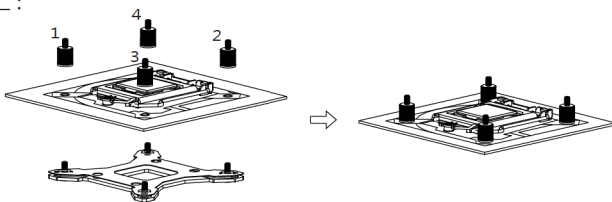
安裝步驟：

步驟一：



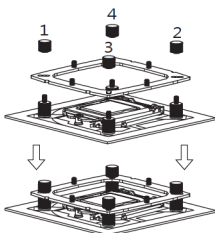
步驟一：依照您的中央處理器腳位類型 (LGA1366/1150/1155/1156/775) 選擇對應於鐵背板上的孔位，將四個角落的活動螺柱移到定位，之後將活動螺柱套上塑膠薄膜片。

步驟二：



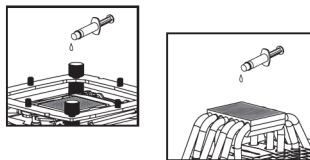
步驟二：將已安裝好中央處理器的主機板置於鐵背板之上，使背板上四個活動螺柱能穿過主機板上中央處理器周圍的四個螺絲孔，並且緊貼到主機板的背部，然後將四個手轉螺柱以對角交叉方式套到活動螺柱上將其固定。

步驟三：



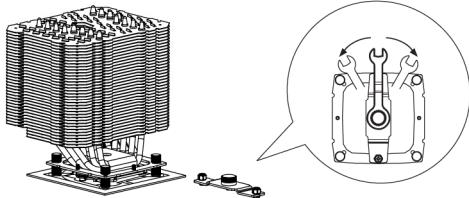
步驟三：將共用固定架置於四個手轉螺柱上，再將四個螺帽以對角交叉方式套上手轉螺柱將其固定。

步驟四：



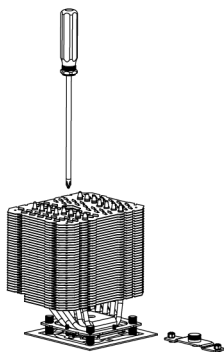
步驟四：塗抹導熱膏於散熱器銅底表面以及中央處理器銅蓋上。

步驟五：



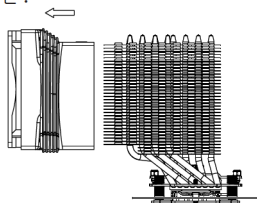
步驟五：將 HR-22 散熱器本體置放與中央處理器上，讓銅底面完整覆蓋中央處理器。可嘗試輕微轉動散熱器使導熱膏分佈的更均勻。警告！！請注意，由於 HR-22 散熱器的鰭片組偏向後方，本體容易傾倒，宜用一手扶持散熱器，再用另外一手繼續步驟六的安裝。

步驟六：



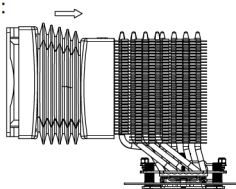
步驟六：將壓板放置散熱器鋁蓋上，使壓板兩端的六角頭螺帽套上共用固定架上突起的螺柱，並將其鎖緊固定。（鰭片組之下的螺帽需用隨附的長頸螺絲起子穿過鰭片組來固定）

步驟七：



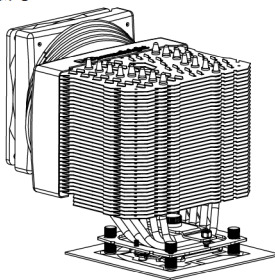
步驟七：首先，如圖中箭頭方向所示壓縮（擠在一起）風管，使其可以較容易地被置入與 HR-22 本體和 12 公分（黃色）或 14 公分（紅色）系統風扇之間。請注意：風管上有 "Thermalright" 字樣，那一端連接到 HR-22 本體，另一端則連接到 12 公分（黃色）或 14 公分（紅色）系統風扇。

步驟八：



步驟八：風管的兩端分別套上 HR-22 本體和 12 公分（黃色）或 14 公分（紅色）系統風扇之後，此時便可讓風管自由伸展。

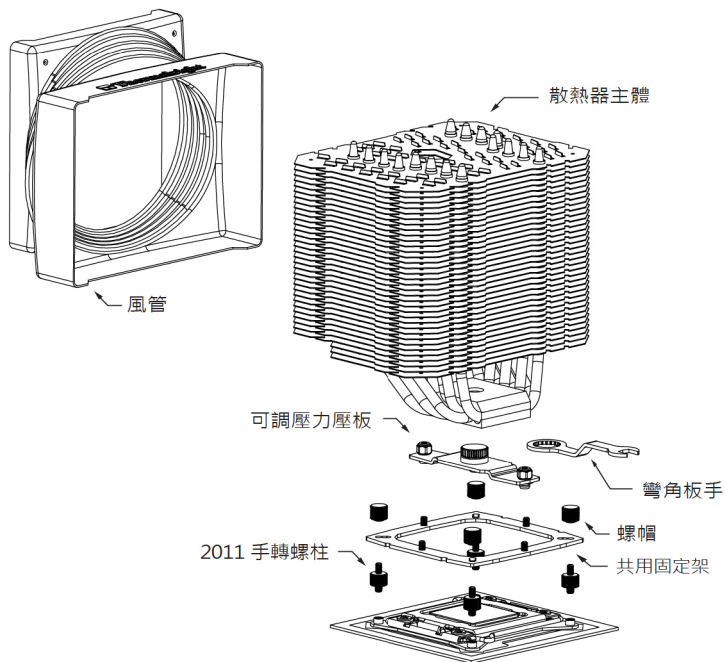
步驟九：



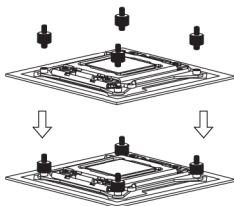
步驟九：安裝完成。

分解圖

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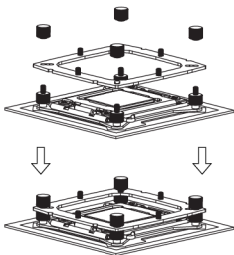


步驟一：



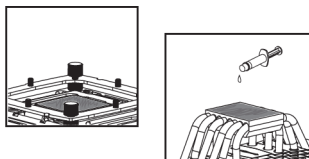
步驟一：將四個 2011 手轉螺柱以對角交叉方式套到活動螺柱上將其固定。

步驟二：



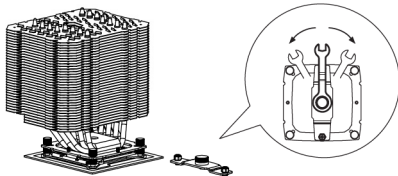
步驟二：將共用固定架置於四個 2011 手轉螺柱上，再將四個螺帽以對角交叉方式套上手轉螺柱將其固定。

步驟三：



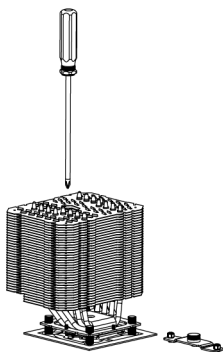
步驟三：塗抹導熱膏於散熱器銅底表面以及中央處理器銅蓋上。

步驟四：

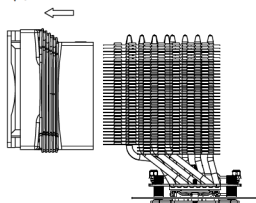


步驟五：將 HR-22 散熱器本體置放與中央處理器上，讓銅底面完整覆蓋中央處理器。可嘗試輕微轉動散熱器使導熱膏分佈的更均勻。警告！！請注意，由於 HR-22 散熱器的鳍片組偏向後方，本體容易傾倒，宜用一手扶持散熱器，再用另外一手繼續步驟六的安裝。

步驟五：



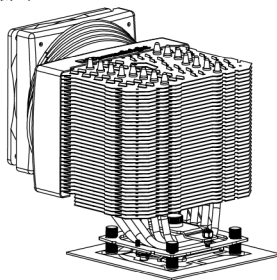
步驟六：



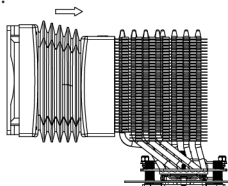
步驟七：首先，如圖中箭頭方向所示壓縮（擠在一起）風管，使其可以較容易地被置入與 HR-22 本體和 12 公分（黃色）或 14 公分（紅色）系統風扇之間。請注意：風管上有“Thermalright”字樣那一端連接到 HR-22 本體，另一端則連接到 12 公分（黃色）或 14 公分（紅色）系統風扇。

步驟六：將壓板放置散熱器鋁蓋上，使壓板兩端的六角頭螺帽套上共用固定架上突起的螺柱，並將其鎖緊固定。（鳍片組之下的螺帽需用隨附的長頸螺絲起子穿過鳍片組來固定）

步驟八：



步驟七：

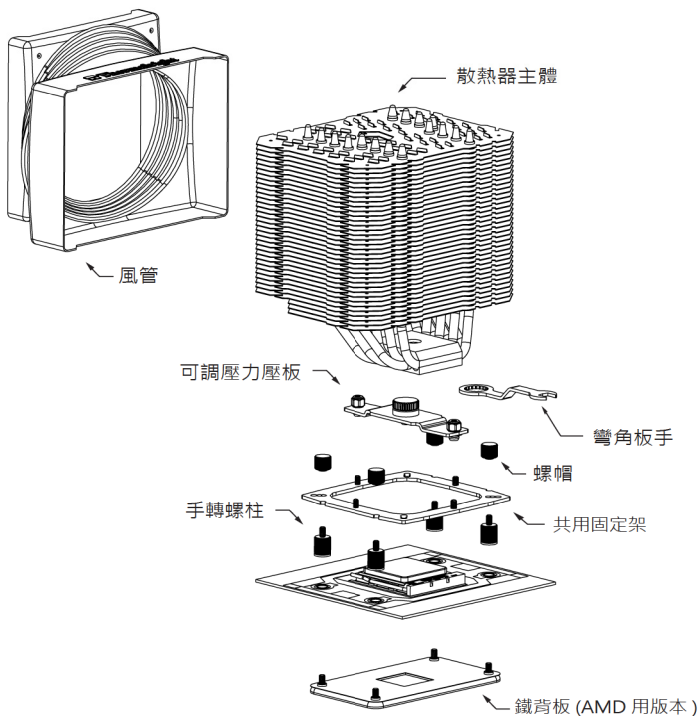


步驟八：風管的兩端分別套上 HR-22 本體和 12 公分（黃色）或 14 公分（紅色）系統風扇之後，此時便可讓風管自由伸展。

步驟九：安裝完成。

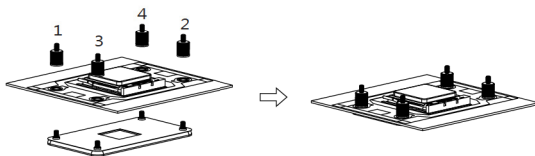
分解圖

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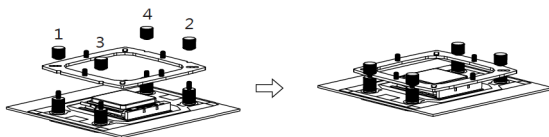
安裝步驟：

步驟一：



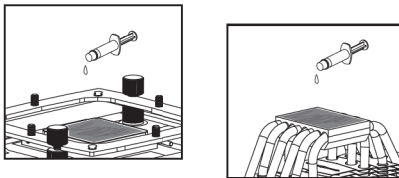
步驟一：將已安裝好中央處理器的主機板置於鐵背板之上，使背板上四個螺柱能穿過主機板上中央處理器周圍的四個螺絲孔，並且緊貼到主機板的背部，然後將四個手轉螺柱以對角交叉方式套到活動螺柱上將其固定。

步驟二：



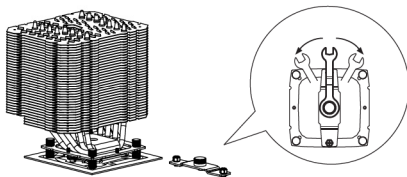
步驟二：將共用固定架置於四個手轉螺柱上，再將四個螺帽以對角交叉方式套上手轉螺柱將其固定。

步驟三：



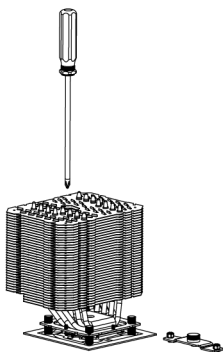
步驟三：塗抹導熱膏於散熱器銅底表面以及中央處理器銅蓋上。

步驟四：



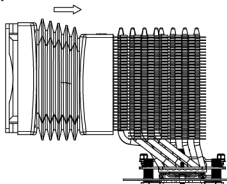
步驟四：將 HR-22 散熱器本體置放與中央處理器上，讓銅底面完整覆蓋中央處理器。可嘗試輕微轉動散熱器使導熱膏分佈的更均勻。警告！！請注意，由於 HR-22 散熱器的鰭片組偏向後方，本體容易傾倒，宜用一手扶持散熱器，再用另外一手繼續步驟六的安裝。

步驟五：



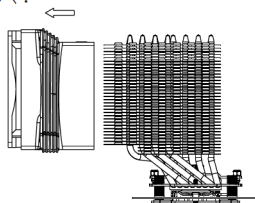
步驟五：將壓板放置散熱器鋁蓋上，使壓板兩端的六角頭螺帽套上共用固定架上突起的螺柱，並將其鎖緊固定。（鰭片組之下的螺帽需用隨附的長頸螺絲起子穿過鰭片組來固定）

步驟七：



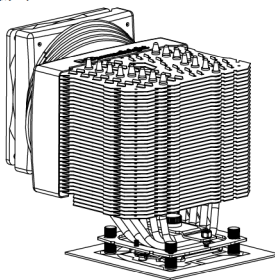
步驟七：風管的兩端分別套上 HR-22 本體和 12 公分（黃色）或 14 公分（紅色）系統風扇之後，此時便可讓風管自由伸展。

步驟六：

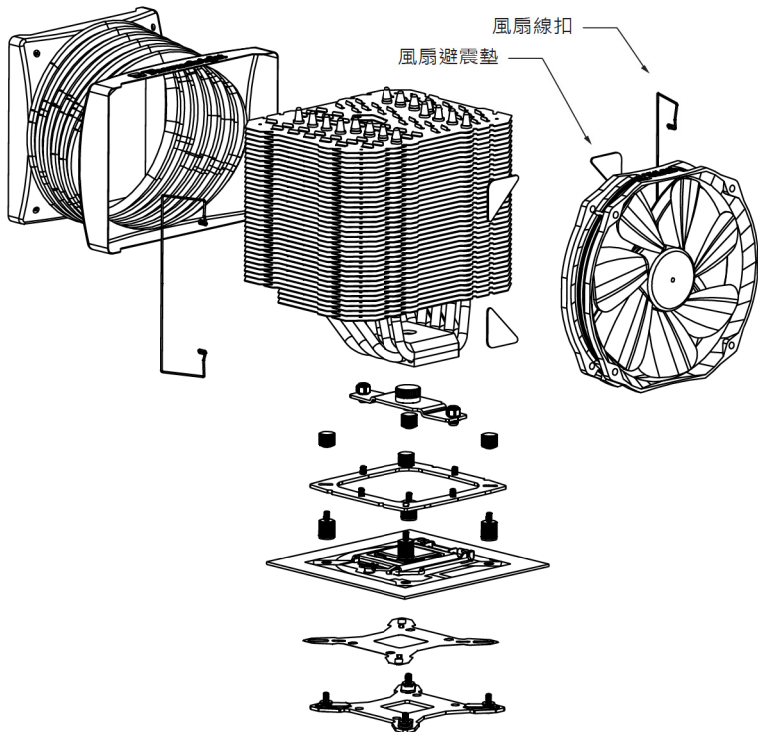


步驟六：首先，如圖中箭頭方向所示壓縮（擠在一起）風管，使其可以較容易地被置入與 HR-22 本體和 12 公分（黃色）或 14 公分（紅色）系統風扇之間。請注意：風管上有 "Thermalright" 字樣那一端連接到 HR-22 本體，另一端則連接到 12 公分（黃色）或 14 公分（紅色）系統風扇。

步驟八：

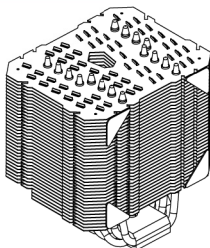


步驟八：安裝完成。



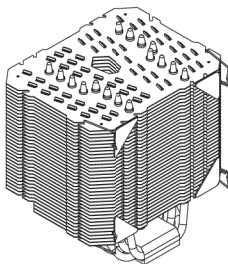
Thermalright HR-22

步驟一：



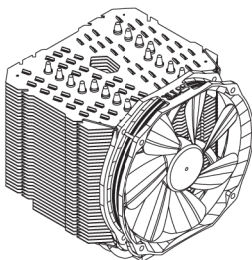
步驟一：將風扇避震墊黏貼於散熱器主體的四個角(上圖)。

步驟二：



步驟二：將風扇線扣卡置散熱器主體兩側的凹痕裡(上圖)。

步驟三：



步驟三：將風扇平貼於散熱器上，並將風扇線扣扣置風扇螺絲固定孔。

Technical Spec

Heatsink Specifications:

Dimension: Length 150mm x Width 120mm x Height 159mm

Weight: 1160g (Heatsink only)

Heatpipe: 6mm heatpipe*8 units

Copper Base: C1100 Pure copper nickel plated

Fan Specification Recommended:

Dimension: L152mm x H140mm x W26.5mm

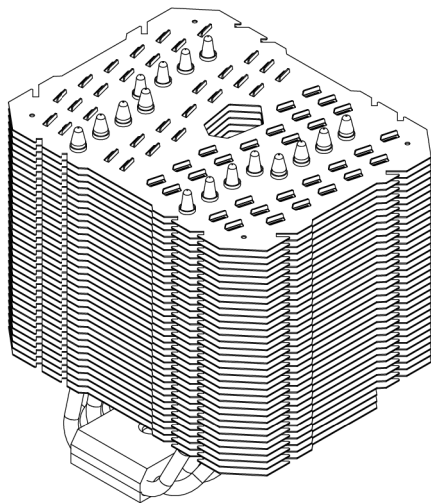
Weight: 175g

Fan speed: 900~1300RPM (PWM controlled)

Fan noise: 21~25dBA MAX

Airflow: 28.32~73.64CFM MAX

Connector: 4 Pin (PWM Fan connector)



Technische Spezifikationen

Kühlkörper Spezifikationen:

Maße: Länge 150 mm x Breite 120 mm x Höhe 159 mm

Gewicht: 1160 g (nur Kühlkörper)

Heatpipe: 6 mm Heatpipe x 8 Stück

Kupfergrundplatte: C1100 reines Kupfer, vernickelt

empfohlene Lüfter Spezifikationen:

Maße: L152 mm x H140 mm x W26,5 mm

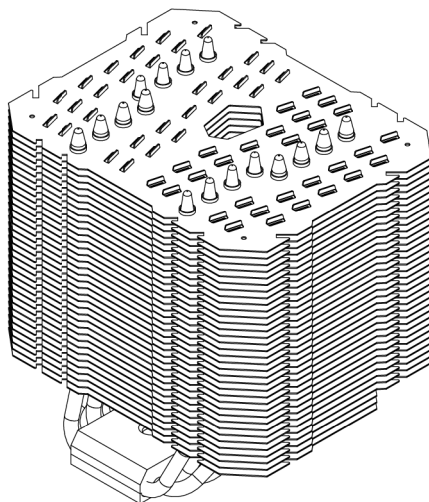
Gewicht: 175 g

Umdrehung: 900~1300 U/min (PWM gesteuert)

Lautstärke: 21~25 dBA max.

Fördermenge: 48,11~125.1 m³/h max.

Anschluss: 4 Pin (PWM Lüfteranschluss)



散熱器規格書

散熱器規格書：

尺寸：長 150mm x 120mm x 159mm

重量：1160 克 (本體重量)

熱導管：6mm 熱導管 *8 支

銅底：C1100 純銅底座鍍鎳處理

風扇規格書：

尺寸：長 152mm x 寬 140mm x 高 26.5mm

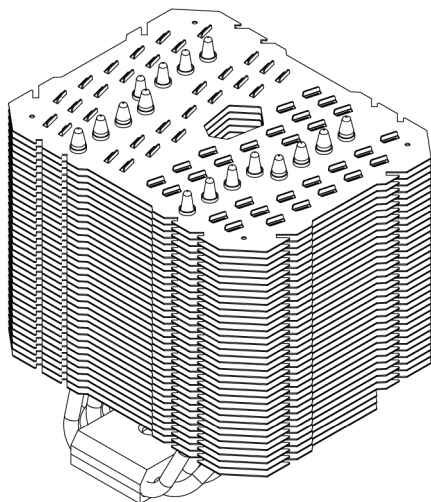
重量：175 克

風扇轉速：900~1300RPM(可透過 PWM 控制)

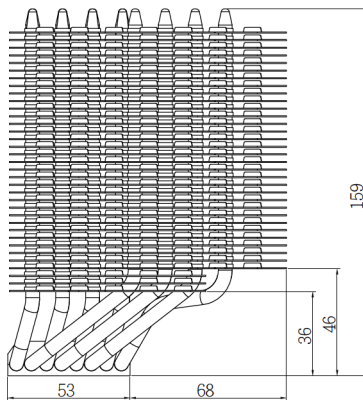
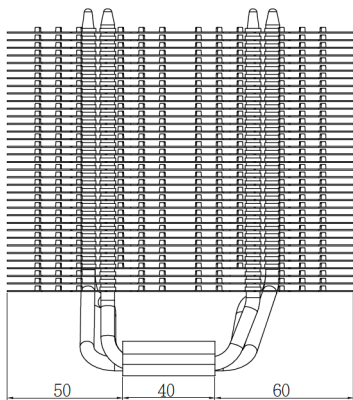
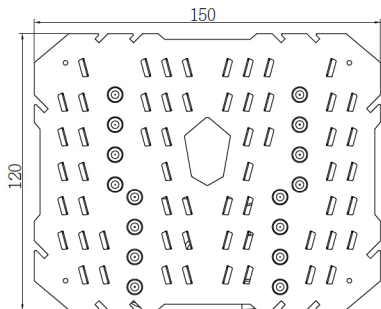
風扇噪音：21~25dBA MAX (一米測試距離)

風量：28.32~73.64CFM MAX

接頭類型：4Pin PWM 接頭



Thermalright HR-22



The Ultimate Cooling Solutions!



Thermalright

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EMAIL: sales@thermalright.com