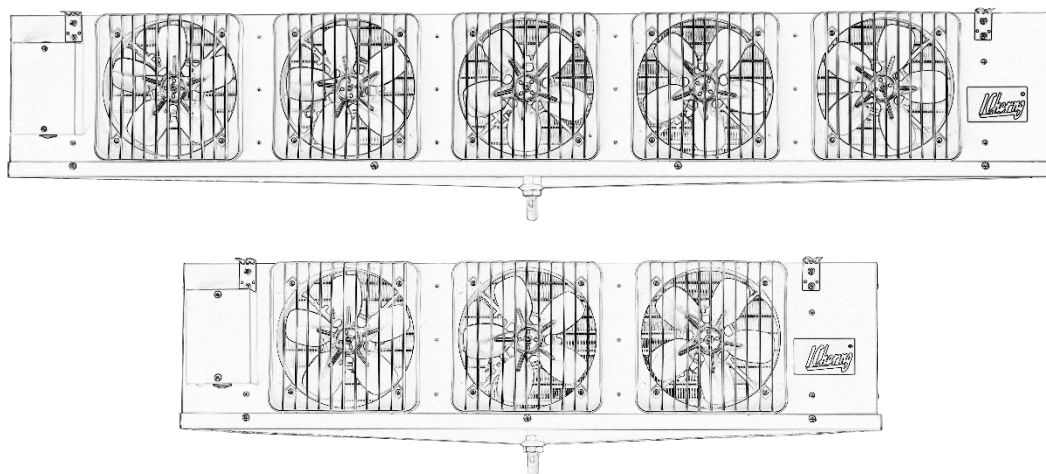


# WA 系列蒸發器安裝與操作說明

## WA Series User's Manual



**ICherng**®



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### 1. Check on delivery

When receive products, please check if there is any damage on packing or product due to shipping. And the content is the same as packing list. If there is any damage, please describe defect(s) on the delivery note. If possible, take photos on damaged part and send the photos and damage description to your local agent. In order to protect your right and interests, please inform your local agent within 3 days.

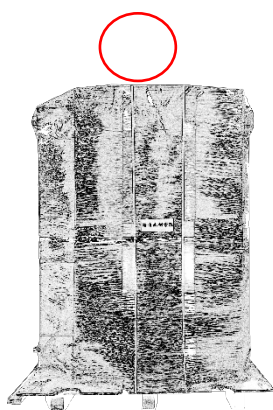
### 2. Storage

**Warning! Do not place the container upside down or vertically. Incorrect storage way could lead to casing damage!**

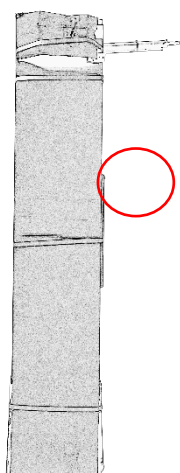
**Never place any heavy goods on this product!  
Never sit or stand on the container!  
Never overstock the containers!**

Store product in cool and dry place. If corrugated cardboard gets wet, please remove the wet corrugated cardboard as soon as possible! The wet corrugated cardboard might produce corrosive compounds which are aggressive to heat exchanger materials!

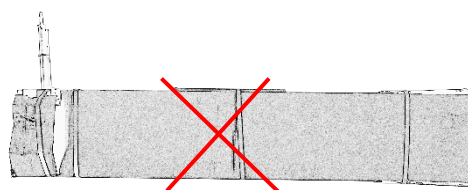
If this unit cooler has been used for a while, for some reason has to unload the unit or shut down the whole system for a long time, please dry the fin surface and drain pan before storage. If the cooler is disconnected from system, please seal the unit cooler with dry nitrogen.



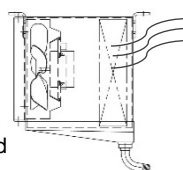
Incorrect storage way could lead to the casing damage!  
放置方法錯誤將導致產品箱體受損！



Please place unit vertically and prevent fall down!  
請將箱體垂直放置避免傾倒！



Do NOT place horizontally!  
請水平放置本產品上！



Dry up unit cooler before storage or shut down for a long time if it has been run.  
如系統已經運轉過，在儲存或要長時間停機前，請先乾燥！

### 1. 收貨檢查

當收到產品時，請檢查產品包裝與產品本身是否有運輸損傷。並請核對產品與送貨單內容是否符合。如果任何損傷，請於送貨單上註明損害情形。可能的話請將受損的部分拍照，並將照片與損害說明傳送到當地經銷商。為了確保您的權益，務請於到貨 3 天內通知您的經銷商。

### 2. 儲存

**警告！勿將產品倒置或是垂直放置，否則將造成板金受損！**


**請勿放置任何重物於本產品上！  
請勿坐或站立於本產品上！  
請勿過度堆疊本產品！**

請將產品放置於涼爽乾燥的位置。如果瓦楞紙包裝潮濕，請迅速將受潮的瓦楞紙板移除。潮濕的瓦楞紙可能會產生有腐蝕性的物質，對熱交換器的材質造成損壞。


如果蒸發器已經運轉過，在某些情形下必須要將蒸發器取下或是將系統關閉一段長時間，請在儲存前將鰭片與水盤乾燥。如果蒸發器由系統拆下，請將蒸發器以乾燥氮氣封存。




**Sharp edges hazard !**  
Please wear protection gloves while unpacking and installing this product!



**銳利邊緣危害！**  
在取出本產品或安裝本產品請戴防護手套！



**Installation work must be executed by professional technician !**



**本產品的安裝作業僅能由專業作業人員執行！**

### 3. Installation

#### 3.1 Unpacking

Caution! Fins are very sharp, please DO NOT take off the protection corrugated cardboard before installation. After removing the cardboard, DO wear the protection gloves through the installation work.

Unit cooler is with extending headers and drain pan, can be only placed vertically. DO NOT put drain pan side or top side directly on the ground. If need to put the unit cooler on the ground, please keep it vertically with cardboard under and prevent falling down. The pallet package comes with a black adjustable belt. Once take one unit out, please use this belt to retighten the whole package to avoid other unit falling down.

Before shipping, all unit coolers have been pressurized inside to block moisture. While using copper tube cutter to cut the inlet/outlet tubes before connection, do watch out the gas blowout.

All the packing materials disposal must meet local regulation.

### 3. 安裝

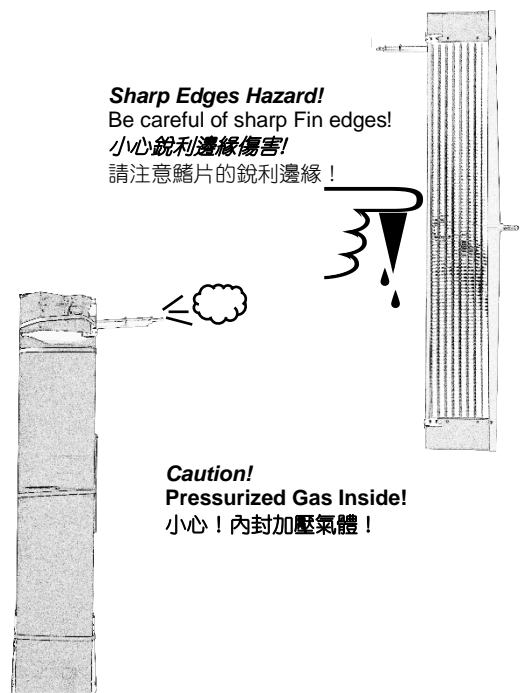
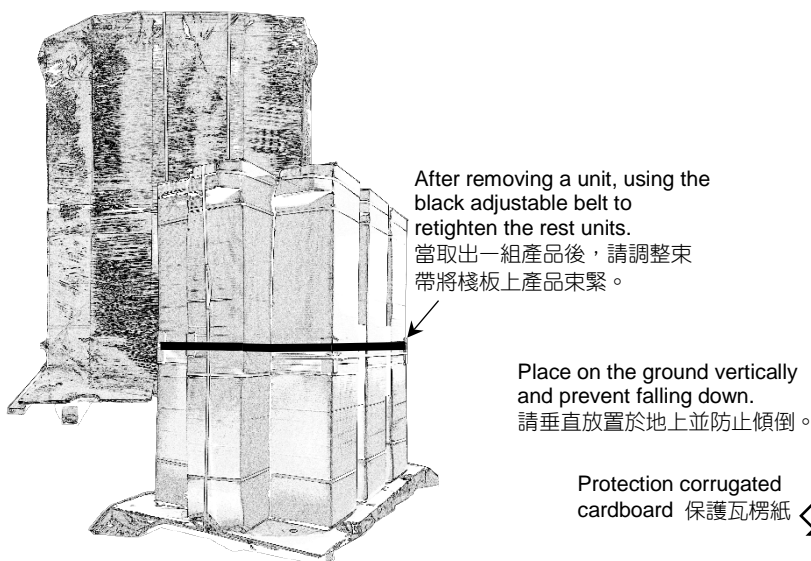
#### 3.1 取出產品

小心！蒸發器的鱗片相當銳利，在安裝前請勿移除保護的瓦楞紙板。當移除瓦楞紙板後，安裝過程中請戴防護手套。

蒸發器包含了外露之延伸集管與水盤，只能以垂直方式放置。不可將水盤側或上方集管側直接放置於地上。如需將蒸發器放置於地面上時，請垂直放置，並於下方放置瓦楞紙板並避免傾倒。棧板包裝的產品皆附有一條黑色調整束帶，當取出一組產品後，請以此束帶將棧板上產品束緊以防止傾倒。

所有的蒸發器在裝運前內部皆有充填氣體維持正壓，以避免水氣進入管路內部。在連接管路前以切管刀切割出入管時，請注意管內部氣體噴出。

所有包裝素材的拋棄必須依照當地廢棄物處理法規辦理。



### 3.2 General rules for positioning unit cooler

In order to reach the best performance of your unit cooler, you must install unit cooler in a suitable place. The following general rules must be followed while selecting place for unit cooler:

1. The distance between suction side and the wall must be greater than a diameter of fan (229mm). This will provide uniform air distribution on suction side. If unit cooler is placed too close to the wall, it will form a still place in the upper part between wall and unit cooler. This will reduce capacity of unit cooler.
2. The suction side must be away from door. Have to avoid the outdoor air being sucked directly into the unit cooler while door opened, otherwise it will accumulate heavy condensate on coil surface. Thus will block air flow tunnel of unit cooler.
3. Make sure there is no obstacle in front of fan(s). Must reserve space to build up better air circulation. If air flow is blocked, it could lead to a short circuit at air side that will reduce the system capacity. Adjust air blades to achieve best flow pattern.
4. When install multi-unit coolers system, do avoid the air flow interference between unit coolers.

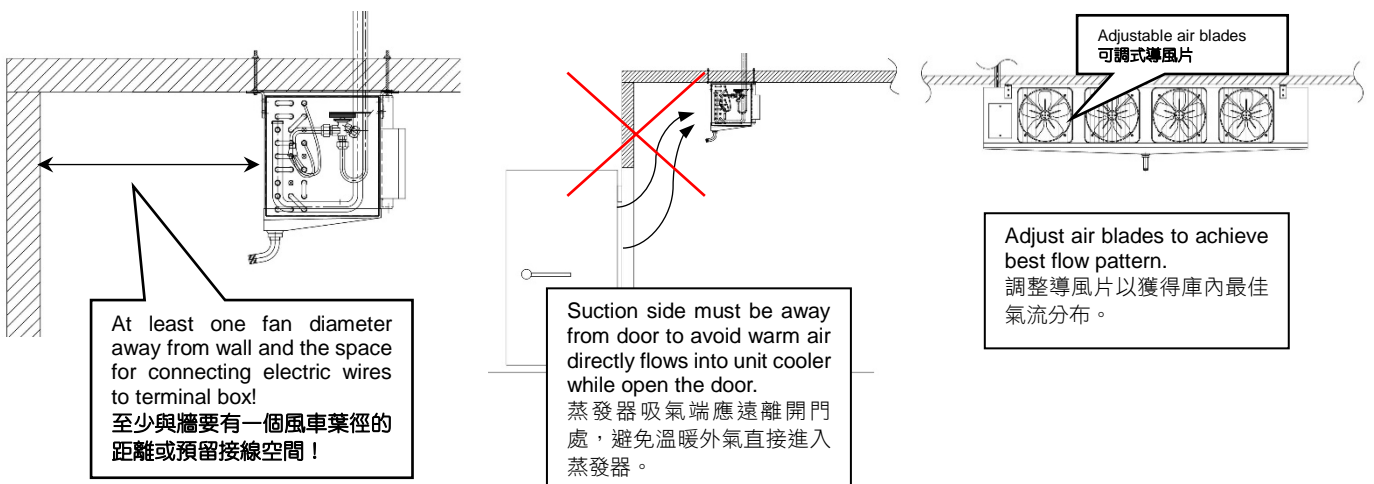
Before installation, check the position with designer or customer to find the most suitable place for the unit cooler.

### 3.2 安置蒸發器的通則

為了確保蒸發器能發揮最大的效能，必須要將蒸發器裝置在正確的位置。在選擇安裝位置時，必須要遵守以下的通則：

1. 蒸發器吸氣面與牆之間的距離至少必須要大於該蒸發器的風車葉徑 (229mm)，並預留連接電線到接線盒的作業空間。這樣才能確保蒸發器迎風面有均勻的氣流。如果蒸發器離牆太近，在牆與蒸發器的上方空間會形成一個氣流停滯區，將造成蒸發器的效能下降。
2. 吸氣面應遠離門，必須避免門開啟時外界溫暖的空氣直接被蒸發器吸入，否則將造成盤管面積過多凝結水，造成氣流通道阻塞。
3. 確保蒸發器在使用時風車的前方無任何障礙物，並確保有足夠的預留空間形成良好的氣流循環。如果蒸發器的出風處被阻擋，氣流很可能形成短循環，降低整體系統效能。利用可調式導風板獲得最佳的氣流分配。
4. 在使用多組蒸發器系統時，要注意要避免蒸發器之間的氣流互相干擾，造成系統效能無法如預期設計。

在安裝前務必與系統設計者和使用者確認位置，以獲得蒸發器的最佳安裝位置。





### Caution !

Aloft working must be executed under local safety regulation!



### 注意！

高空作業必須依照當地安全法規執行！

### 3.3 Locate

Before working, **MUST CHECK every safety facility** and should follow local regulation about aloft working.

- Place 3/8" thread rods at planned positions.
- If lift the unit cooler by forklift, do place the unit cooler on pallet and fix it well with soft pad. **DO NOT PRESS** the drain pan. (Drain pan is to collect condensate water or defrosting water, not for construction!)
- Lift the unit cooler to the position, fasten it with nuts.
- Adjust level to make sure condensate water or defrosting water will flow to the drain line.

### 3.4 Drain Line

In order to drain water from drain pan, drain line should be pitched in adequate slope. If room temperature is below 2°C, the drain line should be pitched at 100mm per 300mm. When room temperature is above 2°C, the drain line should be pitched at 25mm per 300mm.

For frozen condition, should install drain line heater (prepared by user) and insulate the drain line to prevent water frozen in pipe. Must turn on this heater all the time. While using drain line heater, metal tube should be used in this condition.

The drain line should be insulated and sealed where it passes through the wall.

In order to prevent outdoor air coming from drain line, must have a trap outside. The height of U trap must be greater than the negative fan pressure.

### 3.3 定位

在作業前必須要檢查每一項安全措施同時必須依照當地高空作業法規執行。

- 於預定吊掛位置安置 3/8" 牙條。
- 如果使用堆高機進行吊掛蒸發器時，將蒸發器底部以軟布或保麗龍保護固定於棧板上。**注意！請勿壓傷集水盤！**(集水盤僅用來收集冷凝或除霜水，並非結構的一部分！)
- 將蒸發器升高至所要安裝的位置，以螺帽固定。
- 調整水平確保冷凝或除霜水可以順利由集水盤排到排水管。

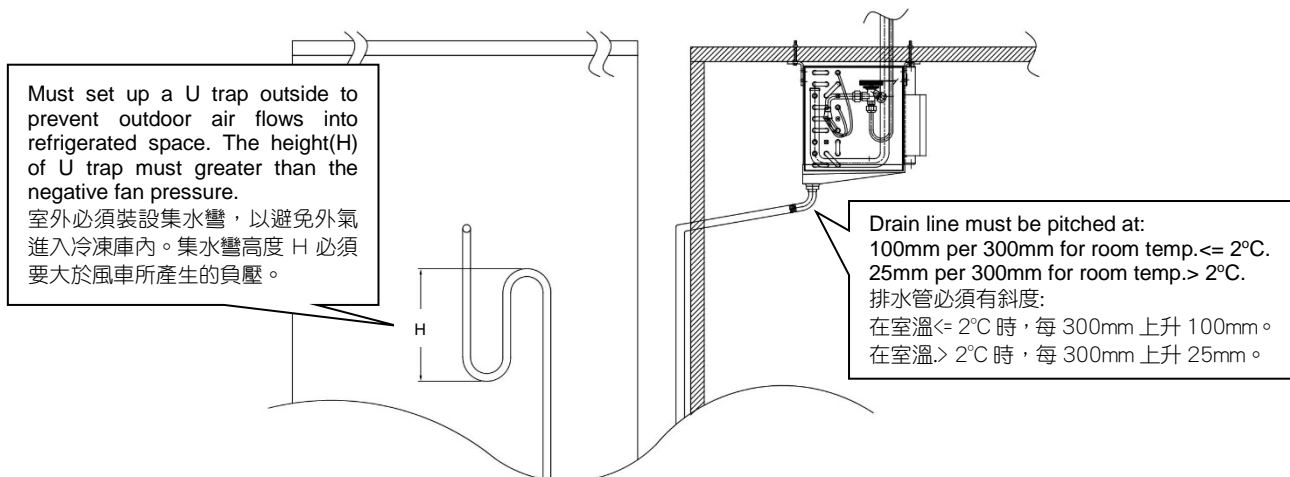
### 3.4 排水管

為了確保水盤的水能順利排出，排水管配置時必須要有適當的斜度。如果排水管在低於 2°C 的室溫時，其傾斜度應為每 300mm 升高 100mm。反之，在高於 2°C 的環境中，其傾斜度應為每 300mm 升高 25mm。

在有凍結的狀況時，必須要裝設排水管電熱(使用者自備)並予以保溫，避免發生管路結冰的情形。且必須保持該電熱在常開。使用排水管電熱時，務必選用金屬排水管。

穿過庫體的排水管應做保溫及密封。

為避免外氣經由排水管進入，在外側的排水管應做適當的集水彎。集水彎高度必須高於風車所產生的負壓。





### 3.5 Refrigerant Piping

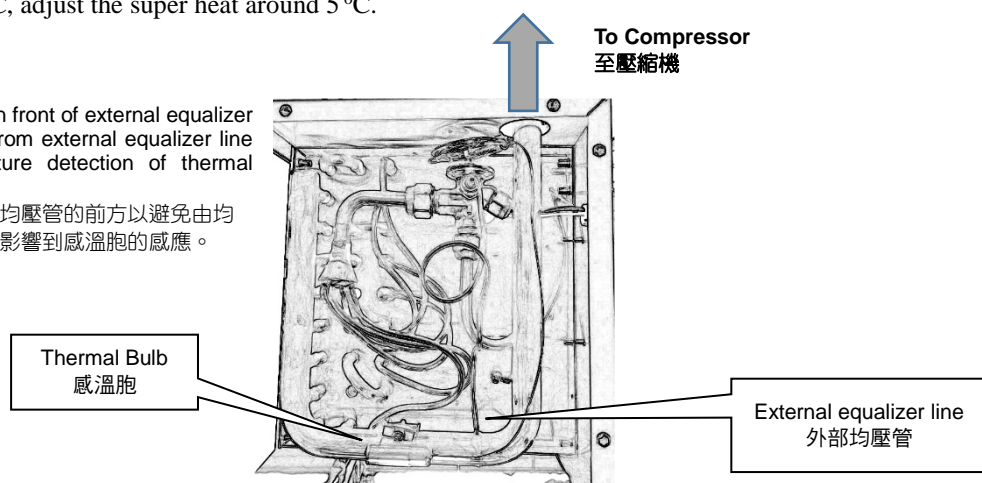
- \* **Refrigerant piping must be done by professional technician and follow the national codes.**
  - \* **If the suction line has to raise up over the unit cooler, raising tube must with an oil trap to make sure good oil return**
  - \* **Horizontal suction line should pitch down from unit cooler to compressor. Suction line should be insulated to prevent condensate water.**
  - \* **Refrigerant line should be as short as possible to reduce pressure drop.**
- a. In order to prevent moisture entering unit cooler, the unit cooler is sealed with pressurized dry gas. Before brazing connection tube, use copper tube cutter to cut a slit for exhausting sealed gas. **Be careful for the ejected gas or tube scraps. Wear personal safety protecting equipment while working.**
  - b. When the unit cooler reaches to the zero pressure status, deburr the tube ends and expand tube end for brazing. For the good cleanness inside the system, use dry nitrogen to purge the oxygen out. This will prevent forming oxide inside during brazing.
  - c. When finish connecting all the components, perform leak test and vacuuming. Make sure there is no leak and reach the required vacuum level. It's very important for steady system operating.
  - d. When installation job is done, the expansion valve should be set to correct super heat in test running. For the best performance of unit cooler and preventing the liquid compressed in compressor, the super heat adjustment must be executed at the lowest evaporating temperature of system design value. For temperature difference between evaporating and room temperature at 6~7°C, adjust the super heat around 2.8~3.5°C. For temperature difference between evaporating and room temperature at 8°C, adjust the super heat around 5°C.

### 3.5 冷媒配管

- ※配管必須符合國家相關法規與系統實際操作需求。並由專業技術人員執行。
  - ※如果吸氣管必須要拉高超過蒸發器組的連接位置時，升管的底部必須要接一個集油彎，解決回油問題。
  - ※水平的吸氣回管應由蒸發器斜向壓縮機。吸氣管應做適當的保溫，避免產生冷凝水。
  - ※冷媒管路盡可能保持短，以降低管路壓損。
- a. 為確保蒸發器管路內部保持乾燥，出廠前內部會充填乾燥氣體。焊接前，請用切管刀小心將銅管切開一個小縫，讓蒸發器內部氣體排出。注意！切管時應注意噴出氣體或銅管碎屑，工作時請穿戴個人安全防護裝備。
  - b. 當蒸發器達到零壓力後，開始進行銅管切口去毛邊與擴口準備焊接。為維持管內的潔淨，焊接前請先以氮氣掃除原管內的氧氣，焊接時請以微量氮氣充入管內進行焊接，以避免管內氧化！
  - c. 當連接完成所有的管路後，進行測漏與抽真空。確認系統無洩漏且達到所需要的真空度。此對於日後系統穩定運轉是十分重要。
  - d. 在安裝完成後，膨脹閥必需要調整達到系統所要的過熱度。為獲得完整的蒸發器能力，在系統操作的最低蒸發溫度下將膨脹閥調整適當的過熱度。建議在 6~7°C T.D. 的系統調整到 2.8~3.3°C 的過熱，在 8°C T.D. 的系統調整到 5°C 的過熱。

Place thermal bulb in front of external equalizer line to avoid liquid from external equalizer line interfering temperature detection of thermal bulb.


將感溫胞配置於外部均壓管的前方以避免由均壓管過來的液態冷媒影響到感溫胞的感應。



# WA 系列蒸發器安裝與操作說明

## WA Series User's Manual


### 3.6 Wiring

 Wiring work must be executed by professional technician and follow the related electric codes!


- Use correct tool for wiring.
- Please select the correct electrical wire based on rating current specified on connection diagram. (Connection diagram is on the back of terminal box cover.)
- Connect fan motor to power source, check if rotation direction is correct.
- If model comes with defrosting heaters, wire the heaters as illustrated on wiring diagram.
- For safety reason, be sure to ground unit cooler.

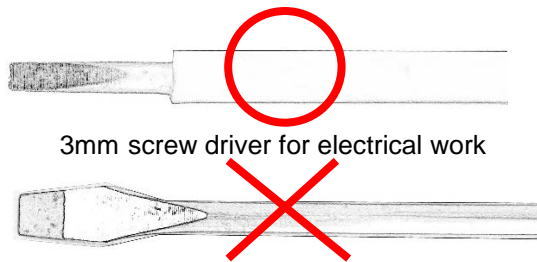
 **BE SURE TO GROUND UNIT COOLER!**

### 3.6 電路接線

 電路接線工作必須由專業技術人員並依照國家電工相關法規執行！

- 請使用正確的工具進行接線。
- 請依照接線圖上所標示的額定運轉電流選擇適當的電線規格。(接線圖位於端子盒蓋背面。)
- 將馬達與電源接妥，並測試馬達轉向是否正確。
- 如果為除霜電熱機種，請依照接線圖確實接線。
- 為了安全起見，務必將蒸發器接地。

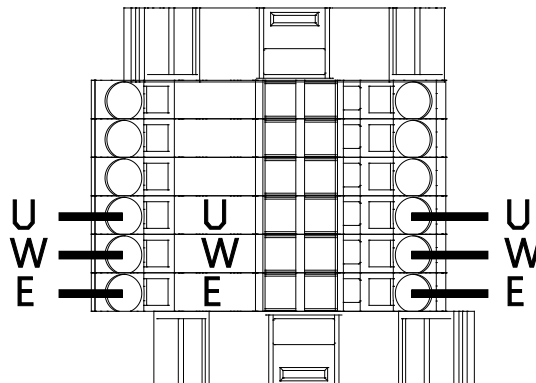
 **務必將蒸發器接地！**



Do select the correct screw driver for connecting wire to terminals!  
請選擇正確的工具以利連接電線的端子！

### Wiring diagrams 接線圖

Single phase connection 單相接線

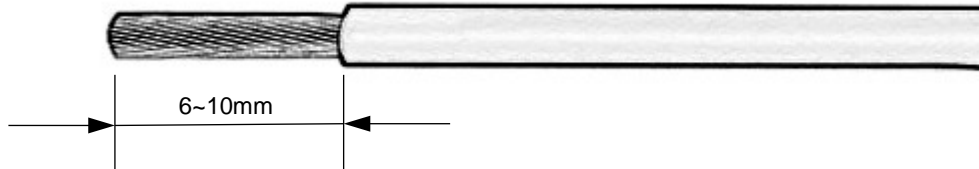


U,W/U,V,W: power source for fan motor  
E: for Grounding

How to connect wire to WAGO\* terminal modules 如何連接電線到 WAGO\* 端子模組

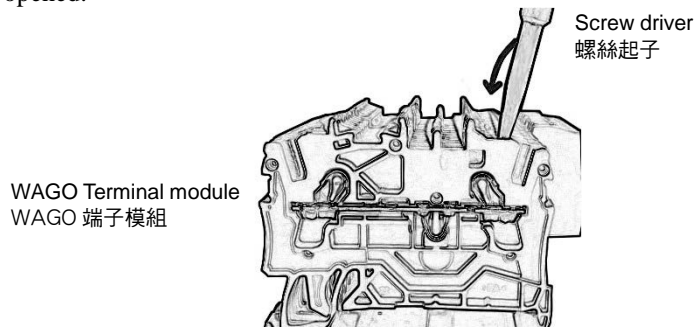
1. Strip wire to suitable length (6~10mm).

1. 將電線剝線約 6~10mm。



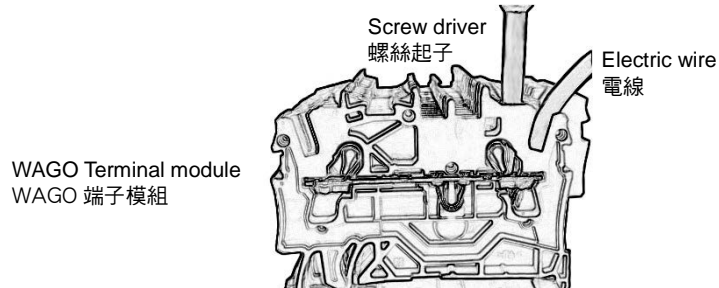
2. Use the flat screw driver insert into the clamp releasing hole. While screw driver inserted the clamp inside is opened.

2. 利用扁平的螺絲起子插入電線夾持釋放孔，使內部彈簧夾開啟。



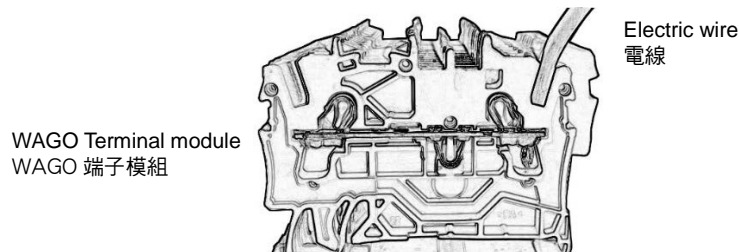
3. Insert the electric wire into the connection hole.

3. 將電源線插入連接孔。



4. Remove screw driver, the wire is clamped. Check the wire if clamped firmly.

4. 移離螺絲起子，電線即被夾緊。檢查電線是否被夾緊。



\*WAGO is a trade mark of WAGO company.

\*WAGO 為德國 WAGO 公司的商標。

### 4. Test running and adjustment

#### 4.1 Before start up

Before setting system into working, the following check list must be examined very carefully:

- Check fan support(s) is/are fastened firmly. All the screws are fixed. There is no loose part before running.
- Check the level of unit cooler is correct.
- Check all the electric wirings are correctly connected and fastened tightly.
- Check the power source is correct. And fan(s) is/are in right rotation direction.
- Check the refrigerant piping is connected and all valves are in right positions. System is filled up suitable refrigerant quantity.
- If use thermal expansion valve, please make sure thermal bulb is well strapped. Insulate the thermal bulb from being affected by surrounding temperature.

#### 4.2 Check and adjust while running

In order to keep system in steady running, must adjust well in test running, the following check list must be examined and adjusted with patience.

- \*Check oil level, if too low add adequate oil to standard oil level.
- \*Check if expansion valve functions well, if superheat is too high, that will reduce the refrigerant circulated quantity. The system capacity will be constrained. Low or no super heat will have risk of liquid compressing in compressor. If the expansion valve is hunting, check installation of thermal bulb and insulate thermal bulb.
- \*Check sight glass of liquid line. The liquid must be full at the rating operation.
- \*Check drain line, make sure condensate water could be drained out from drain pan.

### 4. 試車與調整

#### 4.1 啟動前檢查

在啟動系統之前，請仔細確認以下相關事項：

- 確認風車支架是否被牢固鎖定，所有的螺絲已被旋緊。運轉前確認無其他鬆動零件。
- 檢查蒸發器的水平是否正確。
- 檢查所有電線是否正確連接且已鎖緊。
- 檢查供電電源是否正常，確認風扇轉向正確。
- 確認冷媒管路已連接妥當，所有的閥都在正確的位置。系統已充填適當的冷媒量。
- 如使用感溫膨脹閥，檢查感溫胞是否正確固定。感溫胞需進行保溫以免周圍的溫度影響到感溫胞的感應。

#### 4.2 運轉時的檢查與調整

為確保系統能穩定運轉，試車時必須要仔細調校，以下的檢查項目在試車過程中必須要耐心觀察與調整。

- \*檢查油位，如果油位過低加入適量的冷凍油至標準油位。
- \*檢查膨脹閥的動作是否正常，如果過熱度太大，則將降低冷媒的流量導致系統能力受限。如果過熱度太小將造成液壓縮的危險。如果膨脹閥不斷的開開關閉，檢查感溫胞的安裝是否正確，並將感溫胞予以保溫。
- \*檢查液管的視窗，在額定運轉時視窗必須呈現滿溢情形。
- \*檢查排水管是否順暢，冷凝水必須很容易由排水盤排出。

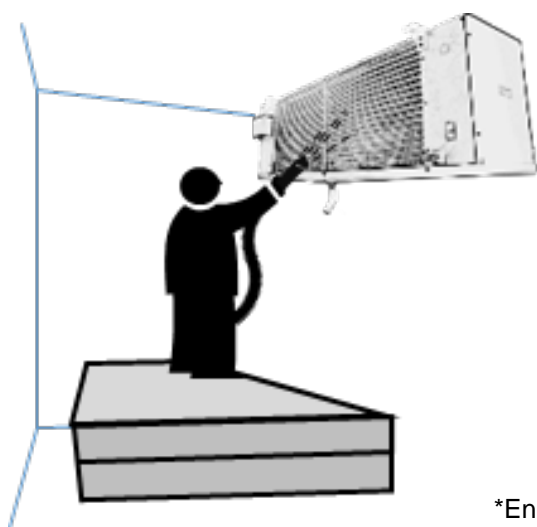
## 5. Maintenance

In order to keep unit cooler in a good condition, you have to check the unit cooler periodically. The following items must be done for check.

- a. Clean fins periodically for retaining performance. Use clean water to wash fins. Water pressure must be lower than 4 bars. Be careful not to damage the fins, otherwise it will block air flow. Use fin comb to straighten the damaged fins. If needed, use neutral detergent to clean the coil. Must rinse the coil till no residue left.

**\*\*If unit cooler is coated with EnergyGuard, please follow instruction of EnergyGuard!\*\***

- b. Clean drain pan and drain line to avoid clogging.
- c. Clean fan blades and air streamer fan guard. If fan blades are damaged or bent, replace with new ones.
- d. Check every electrical connection is fastened. Also check if there is any current leakage, find out the problem and fix it.
- e. Check fan motor if there is any noise. If so, fix it or replace it.
- f. Check every screw and bolt, if there is any loose part, fasten it.
- g. Check tubes and brazed parts of unit cooler if there is any stain or spot. If there is any corrosion happened, do remove the aggressive material(s), and check if there is any leak.
- h. If equipped with air filter, clean the filter to avoid air flow blocked.



## 5. 保養

為確保蒸發器維持良好的運轉狀態，請定期檢查並保養蒸發器。

- a. 定期清潔鰭片確保熱傳效能的維持。使用清水清潔鰭片，水的壓力必須要低於 4 bar。清潔時要注意不可以損壞鰭片，以免阻擋氣流通道。使用鰭片梳將傾倒的鰭片梳直。必要時使用中性清潔劑清洗盤管，清洗後務必潤洗乾淨至無殘留物留在熱交換器上。

**\*\* 如果蒸發器已進行衛能防蝕處理，請依照衛能保養說明進行清潔！ \*\***

- b. 清潔排水盤與排水管避免發生阻塞。
- c. 清潔扇葉與導風罩。如果扇葉受損或彎曲請更換新的扇葉。
- d. 檢查電氣接點是否鬆脫，鎖緊鬆脫的部分。同時檢查是否有漏電的情形，如有請找出原因並予以修復。
- e. 檢查風扇馬達是否有異音，如有請修復或是更換馬達。
- f. 檢查所有的螺絲與螺栓，如果有鬆脫的部分請鎖緊。
- g. 檢查蒸發器的管路與焊接點是否有銹點與污斑。如果發生鏽蝕情形，請將腐蝕性物質移離，並檢查系統是否洩漏。
- h. 如果裝有濾網，請清潔濾網以避免氣流受阻。

Clean the coil to retain capacity.  
清潔盤管以確保性能!

\*EnergyGuard is a trade mark of Monopoly BV, Holland  
\*衛能為荷蘭 Monopoly BV 的註冊商標!

### 6. Trouble shooting

Symptoms	Possible causes	Correction
No condensate water or frost	<ol style="list-style-type: none"> <li>1. Super heat is too high.</li> <li>2. Insufficient refrigerant.</li> <li>3. Room humidity is too low.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust super heat to correct value.</li> <li>2. Add refrigerant.</li> <li>3. Check design point.</li> </ol>
Fan speed is too low	<ol style="list-style-type: none"> <li>1. Motor is out of order.</li> <li>2. Incorrect power source.</li> <li>3. Air tunnel blocked by ice.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace a new one.</li> <li>2. Check the power source and fix it.</li> <li>3. Move the ice, check defrosting system.</li> </ol>
Fan does not run	<ol style="list-style-type: none"> <li>1. Defrosting is on.</li> <li>2. Control component(s) broken.</li> <li>3. Motor is out of order.</li> <li>4. Stuck.</li> </ol>	<ol style="list-style-type: none"> <li>1. Wait till defrosting ends</li> <li>2. Check the control circuit, replace the broken component(s).</li> <li>3. Replace a new one.</li> <li>4. Remove obstacle(s).</li> </ol>

### 6. 故障排除

現象	可能原因	處理方法
沒有冷凝水或霜	<ol style="list-style-type: none"> <li>1. 過熱度太大</li> <li>2. 冷媒不足</li> <li>3. 庫內溼度過低</li> </ol>	<ol style="list-style-type: none"> <li>1. 調整過熱度到正確值。</li> <li>2. 添加冷媒。</li> <li>3. 檢查設計點。</li> </ol>
風扇轉速太慢	<ol style="list-style-type: none"> <li>1. 馬達故障</li> <li>2. 供應電源不正確</li> <li>3. 風道被冰阻塞</li> </ol>	<ol style="list-style-type: none"> <li>1. 更換新馬達。</li> <li>2. 檢查電源並予以修正。</li> <li>3. 清除結冰，並檢查除霜系統。</li> </ol>
風扇不運轉	<ol style="list-style-type: none"> <li>1. 除霜中</li> <li>2. 控制元件故障</li> <li>3. 馬達故障</li> <li>4. 扇葉卡住</li> </ol>	<ol style="list-style-type: none"> <li>1. 等除霜終了。</li> <li>2. 檢查控制迴路並更換損壞零件。</li> <li>3. 更換新馬達。</li> <li>4. 移除障礙物。</li> </ol>

## Replacing fan motor

## 風扇馬達更換



### Caution !

Please do DISCONNECT the main power line before replacing fan set!  
Aloft working must be executed under local safety regulation!  
Wiring work must be executed by professional technician and follow the related electric codes!

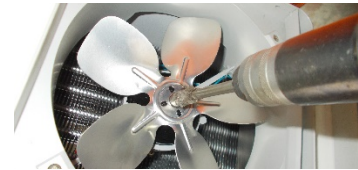


### 注意！

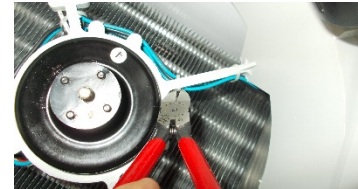
在更換風車組之前必須要將總電源關閉!  
高空作業必須依照當地安全法規執行!  
電路接線工作必須由專業技術人員並依照國家電工相關法規執行！

If fan motor is out of order, please follow the procedure listed below. 如果風車馬達故障時，請依照下述程序執行：

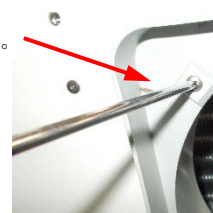
1. For security reason, TURN OFF SYSTEM and DISCONNECT the main power line before replacing fan.  
為確保安全，在更換風車組之前先將系統關閉並將主電源斷電。
2. Take off all the air blades. Remove the fan blade by removing M6 nut.  
移除所有導風片。旋開 M6 螺帽拆下葉片。
3. Cut the cable ties to make it easy to remove the fan frame.  
剪斷紮線帶以利移除整組風扇框。
4. Remove four M4.2 screws of fan guard. Take the whole fan set down.  
將導風罩的四個固定螺絲卸下，將整組風車組拆下。
5. Cut off the power line, change new fan set or replace broken motor only. Drain hole of motor must face down!  
剪斷電線，更換故障的馬達，注意馬達洩水孔必須朝下！  
**Be careful, do not reserve long power line inside the fan guard to avoid interference with fan blades. Do remember face down the drain hole to let condensate water flow out.**  
注意，不要預留過長的電源線在導風罩內，以免造成與扇葉的干涉。請務必使馬達排水孔向下，以利冷凝水排出。
6. Cut the power line to suitable length, avoid interference between fan blade and power line. Re-fix the fan frame back to casing. Use the cable ties to fix the power line on motor support.  
將新的電源線剪短至適當長度，重連接電源線。使用束線帶將電源線固定在馬達固定架上。
7. Fix back the fan blade on to motor. Install back air blades.  
將扇葉固定回馬達。裝回導風片。
8. Reconnect the main power, turn on the system.  
主電源送電，開啟系統。



Unscrew M6 nut to remove fan blade.  
旋開 M6 螺帽拆下葉片。



Unscrew 4 screws.  
卸下 4 個固定螺絲。



Drain hole of motor must face down.  
馬達排水孔必須向下。



WA 系列蒸發器安裝與操作說明

WA Series User's Manual

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Memo 備忘

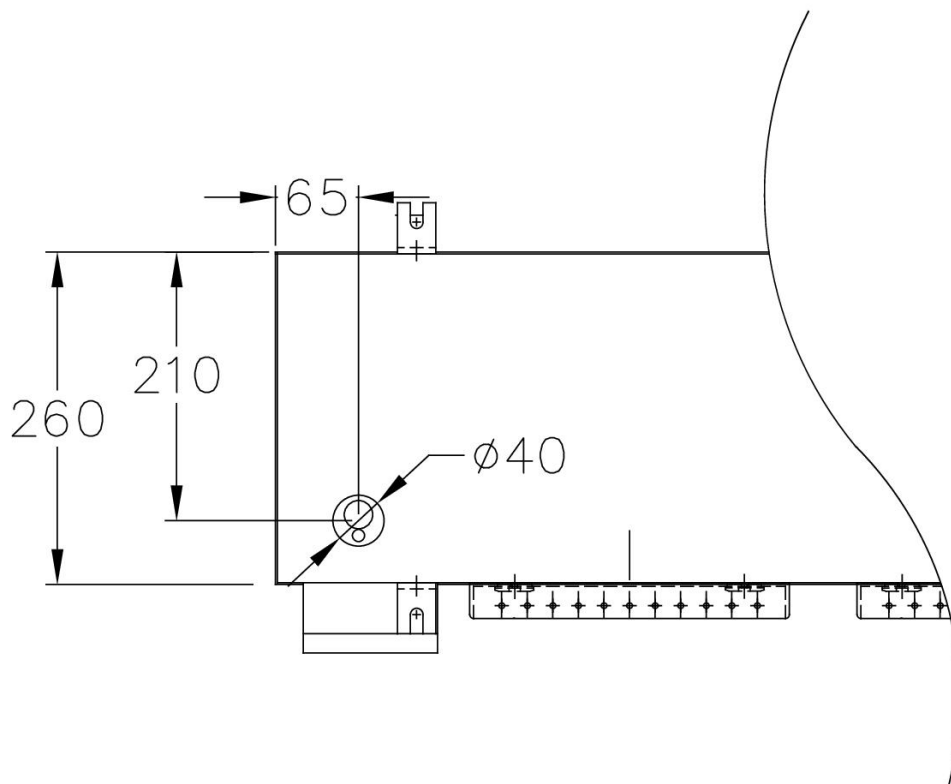


Appendix 1 Replacement Parts 替換零件表

Fan Set Assembly 風車組

Fan Set 風車組	Motor 馬達	Fan Blade 扇葉	Motor Support 馬達網架	Air blade 導風片
AARJJ	AACKW	AAHDK	AAHKP	AAHKQ

Appendix 2 Connection pipe position 出入管連接位置



Version 2016.08.0.1 Subject to change without notice! 資料變更恕不另行通知！



**I-Cherng Refrigeration Industrial Co., Ltd.**

一丞冷凍工業股份有限公司

**Heat Exchanger Taiwan 熱交換器 台灣製造**

No.12 Chu Kuang 1st St., Daliao Dist.,

Kaohsiung City, 83164, Taiwan

台灣高雄市大寮區莒光一街 12 號

Tel:07-7873666 Fax:07-7872999

Website: [www.icherng.com.tw](http://www.icherng.com.tw)

Email: [icherng.com@msa.hinet.net](mailto:icherng.com@msa.hinet.net)