



NE-16

瞬間降溫機操作說明書

NE-16

Sauce and Beverage

High Temperature Instant Cooling Machine

User's Manual

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A. DIY 組裝說明 Illustration of DIY Assembly

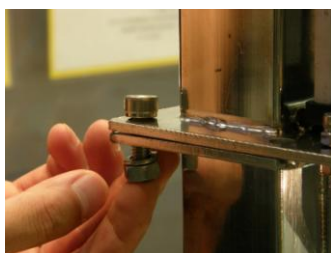
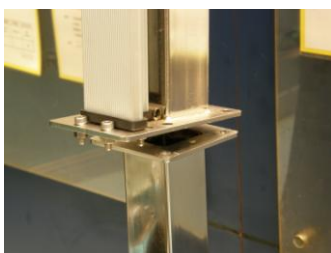


1. 主支柱組裝 Installation of the main structure (combine the main body with the lift controller)



將上主支柱取出對準孔位，利用附加螺絲、彈片、螺母將上主支柱固定，以 13 號梅花扳手與四號六角扳手依序鎖緊

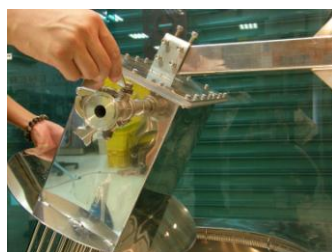
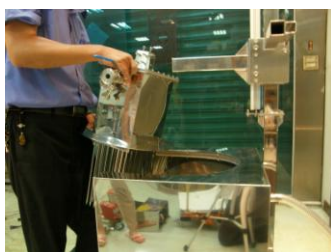
Pick screws, domes, and screw nuts, then use no. 13 adjustable wrench and no. 4 ratcheting wrench to fasten the lift controller.



2. 水套組裝 Put on the water tank cooling system

將整組水套提起，對準揚昇機構中間橫桿、將水套提起高度穿越橫桿擋片，再對準中間橫桿檔片位置置放。

Lift up whole running water tank. Put it through the horizontal bar until it reaches the water tank adjust line.

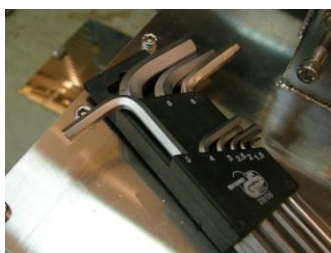


※ 可以稍微下降升降桿，再放入冷卻水套。 You can lower the lifter to put on the water tank easier.

將水套與桶槽調整置中，將左右 M6 螺絲及上方 M8 螺絲鎖緊，即完成水套安裝。

Adjust the □ shape hanger of the running water tank, and then fasten the M6 screws on the right and left side and M8 screws on the top with the no.5 and no.6 wrench. The fabrication of the running water tank is over.

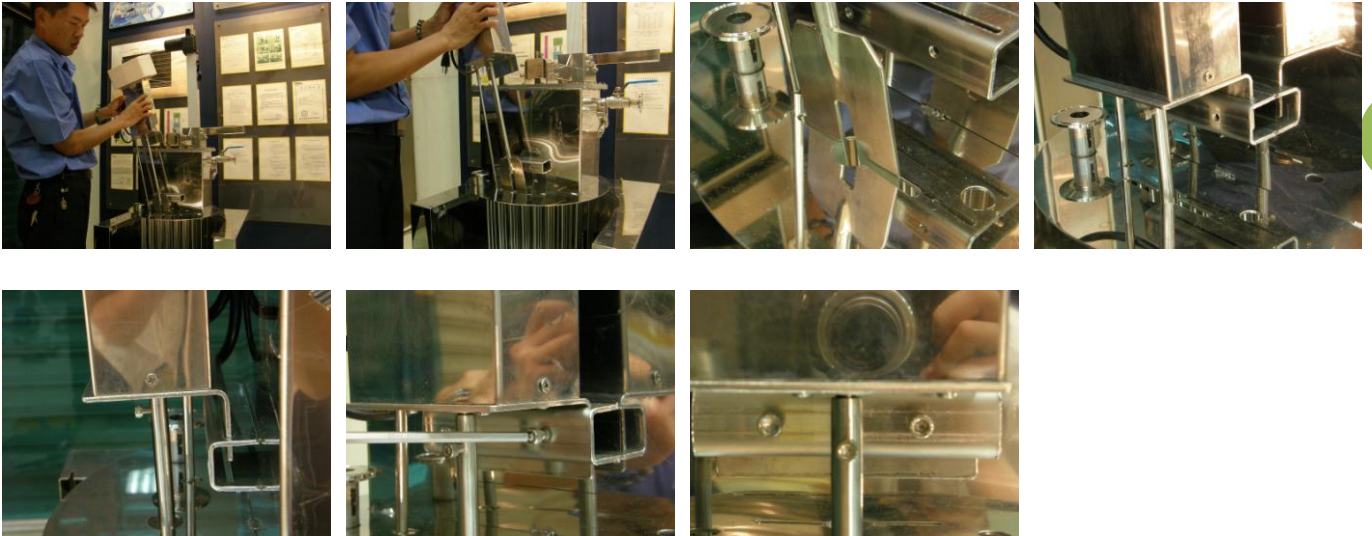
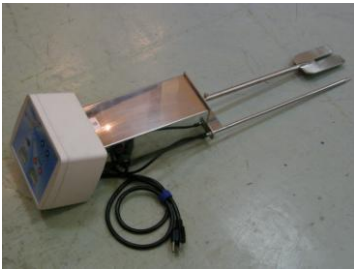
左右 M6 螺絲 M6 screws on the right and left side



上方 M8 螺絲 M8 screws on the top side

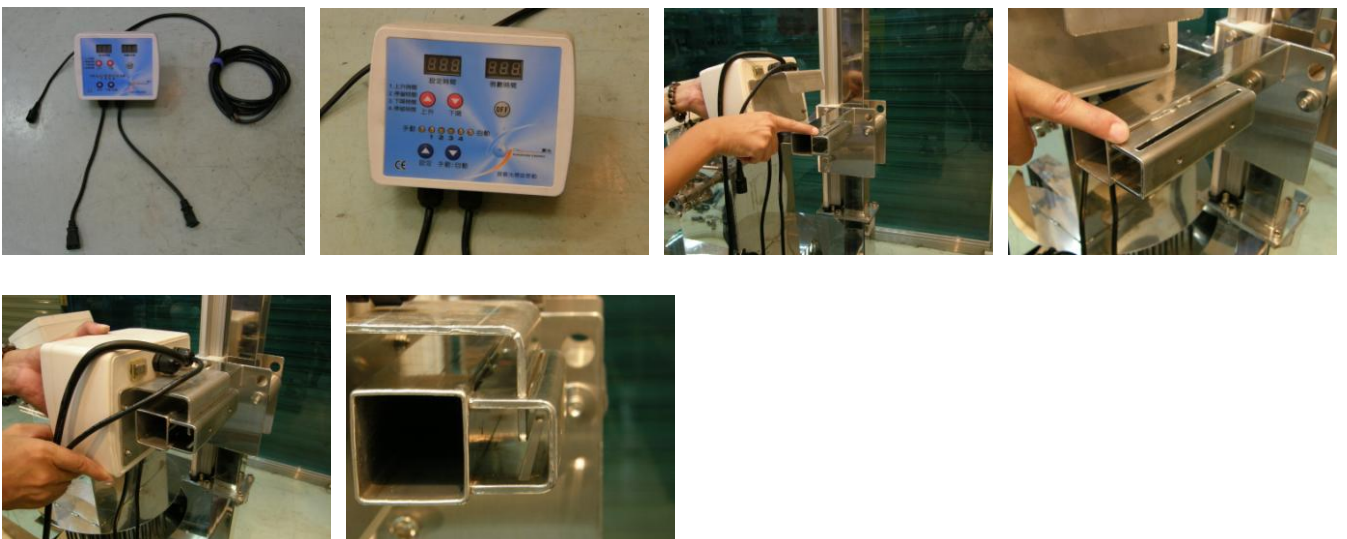


3. 溫控攪拌器安裝 Temperature and stir speed controller installation



4. 安裝升降控制系統 Installation of the lift controller system

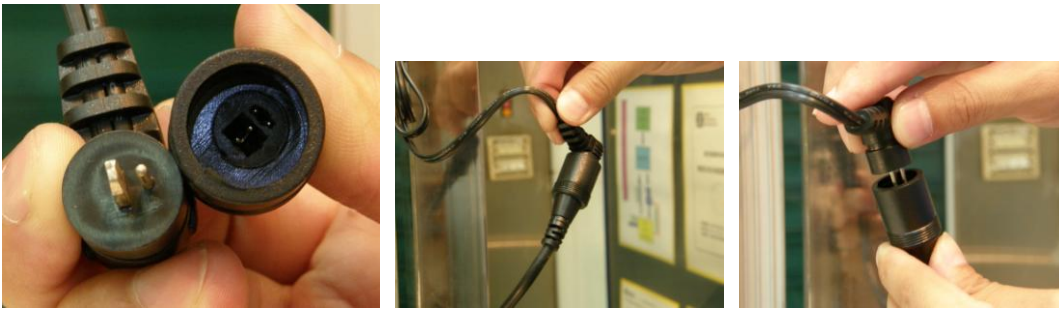
升降控制盒安裝 Up and down controller installation



升降控制盒與升降桿連接 controller and lifter connection



※請注意：控制盒的線孔與升降桿的插孔必須對齊。 Please pay attention to the plug hole.



溫控攪拌器與升降控制盒連接 The connection of temperature controller and lifter controller.

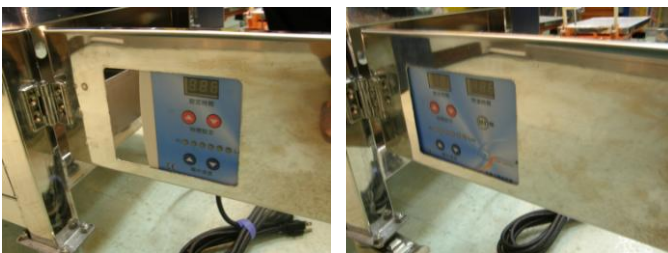


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5. 旋轉控制系統安裝 Time and turn speed controller installation



正面顯示圖 Front side



6. 放入轉盤馬達 Put the turntable motor in.

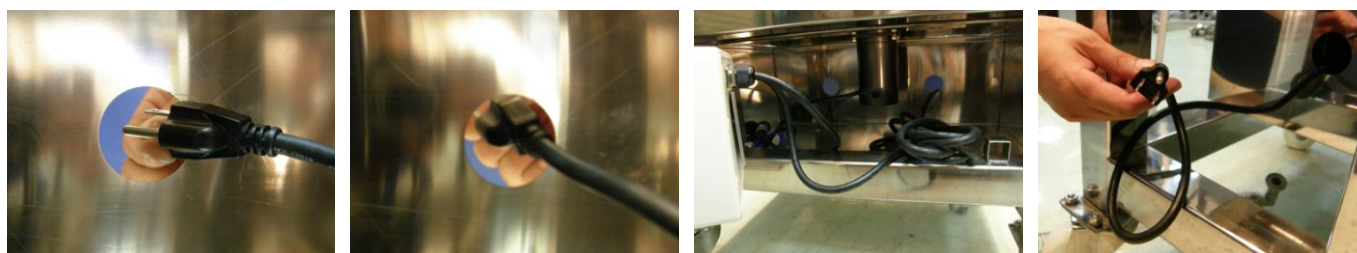


※ 請水平放入 Please put in horizontally.

請連接旋轉控制器與轉盤馬達之軍規接頭 Please connect the military plug of turn table motor and controller.



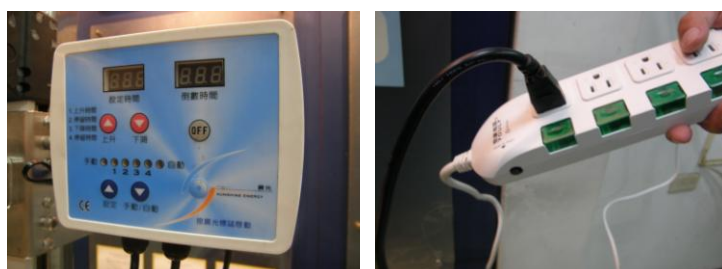
將旋轉控制器的電源線從機組穿過旋轉馬達後方之電圓孔，以便與升降控制盒相接。
Pass the wire to the wire hole behind the turntable motor to make the connection to lifter controller.



請將電源線連接 Please connect to the lifter controller.



將升降控制盒的電源線插入插座 Plug the lifter controller.

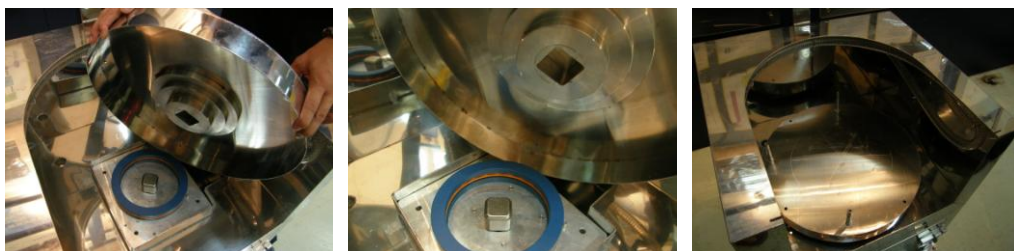


關上電器室門 Close the door of controller room.

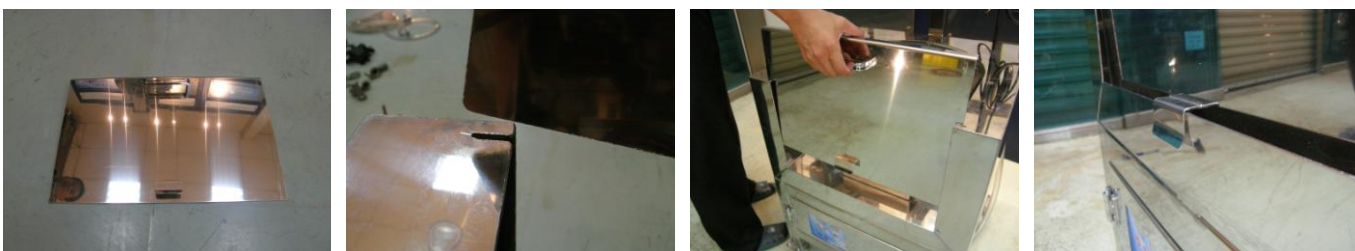


放上轉盤 Put on the turntable.

(四方塊與四方凹槽必須對準， Please focus on the installation of square and square hole)

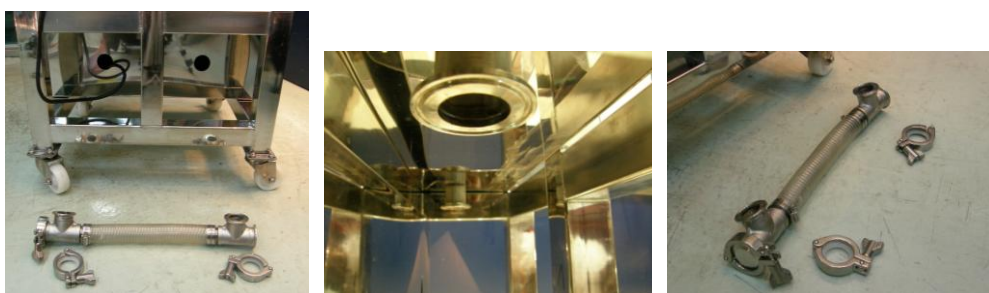


放上遮水板 Put in the water proof gate



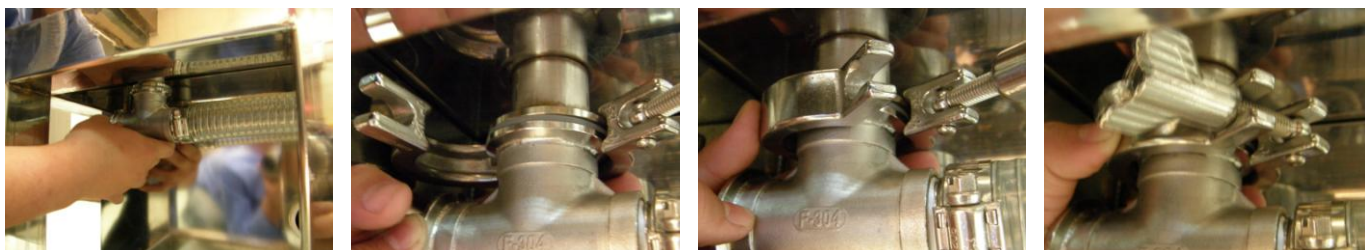
7. 排水管連接 The installation of drain pipes system

請安裝於機組後下方之排水孔與機組排水管 Please install machine drain pipe to 2 holes on the bottom of the machine.



兩個洞的安裝方式都相同 the install method are the same.

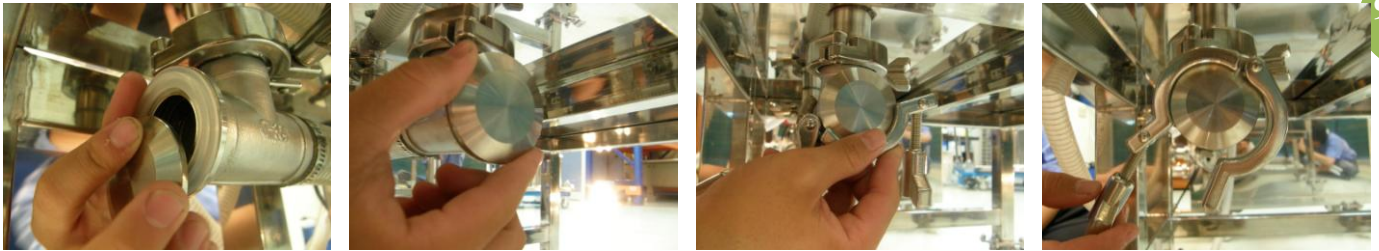
右側孔 Right hole



左側孔 Left hole



將三通閥未使用的一邊封住 (如果水槽是在機組的左側，請封住左邊；如果在右側，請封住右邊)
Seal the not using side of the valve. (Sealing side: water trough is on the left side of machine, seal the left side. If it on the right side, please seal the right side.)

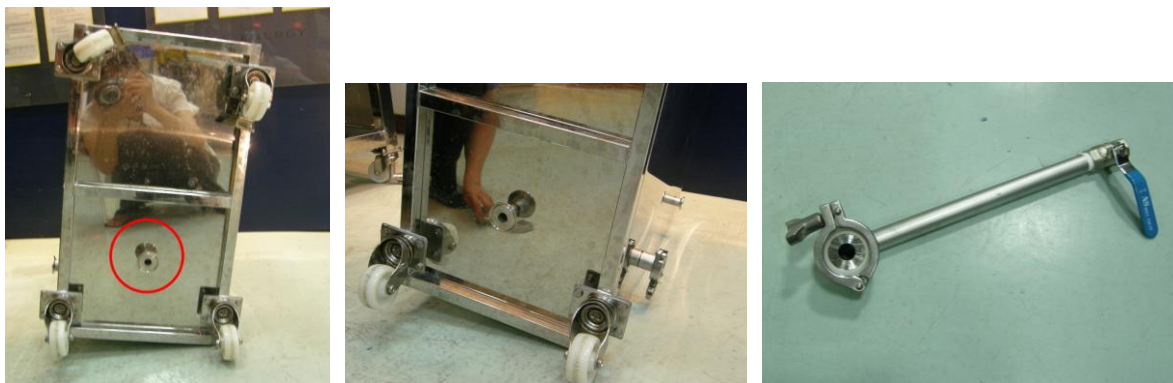


排水與排水三通聯接管安裝 The connection of drain pipe to water tank.



8. 儲水槽配備安裝 Elements installation of water trough.

儲水槽下方排水管安裝 The installation of drain pipe on the bottom of water trough.



水槽後方排水二通組裝 Water trough drain two way valve installation on the back side.



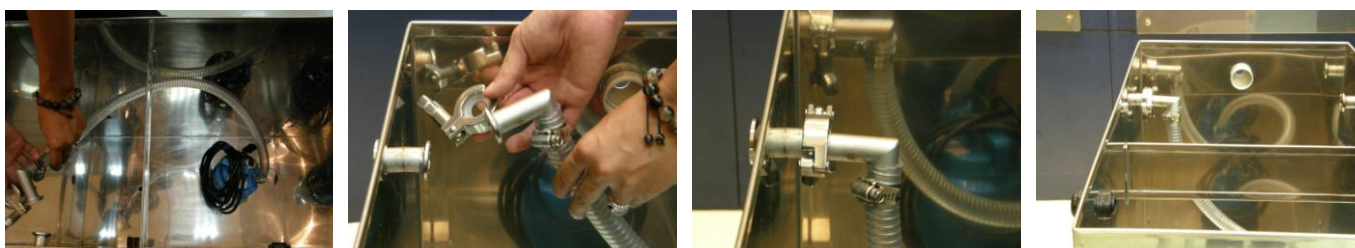
連接排水管即可完成 And connect the water drain pipe. The installation is done.



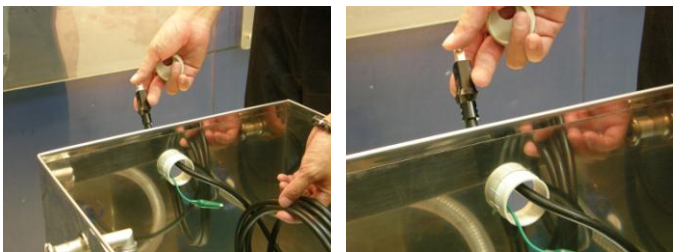
請放入沉水馬達 Please put in the water pump



◇ 沉水馬達放置為至為水槽之前方 Please put the water pump on the front side of water trough.
將沉水馬達上的水管與儲水槽內側接頭相接。 Please connect the water trough and water pump pipe.
(請接再靠進機組那側的接頭 the water trough connector is the one which is close to machine.)



請將沉水馬達電源線穿過水槽後方電線孔。Please pass the water pump wire through the wire hole.



沉水馬達電源線請與三通閥控制盒連接。詳請請見第 12 頁。

放入儲水槽循環泵浦 Please put in the circulation pump into water trough.



循環泵浦的位置在儲水槽後面溢流孔及水槽底部中間的區塊皆可

Please put the circulation pump in the area between the bottom of water trough and the overflow hole.



請將循環泵浦電源線穿過水槽後方電線孔。Please pass the circulation pump wire through the wire hole.



儲水槽循環泵浦電源線請與三通閥控制盒連接。詳請請見第 13 頁。

Water circulation pump and chilling water switch controller connection. Please check page 13.

9. 將三通閥控制器控制箱放置於儲水槽上方 Please put the chilling water switch controller box on the top of water trough.

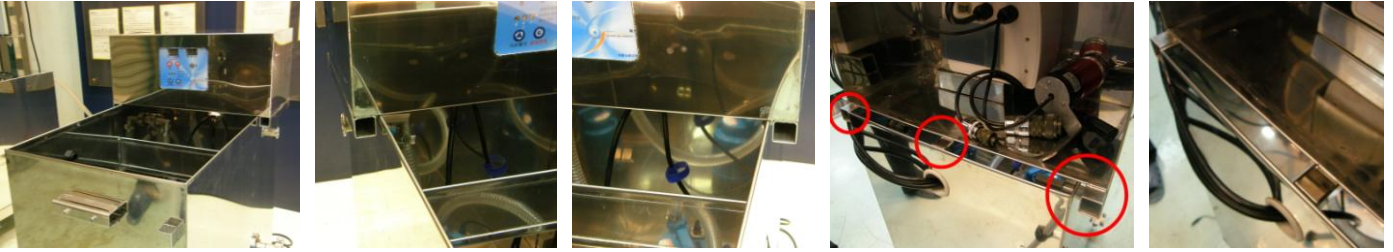


正面 front side



背面 back side





將溫度探針放入儲水槽中 Put the temperature sensor into water trough.



10. 排水電動二通閥安裝說明 Auto two way valve installation



二通閥與進出水控制盒電源線連接 auto two way valve and controller wire connection.



請注意，軍規接頭安裝時，請公母接頭請對齊。 Please pay attention to the connection of wire.



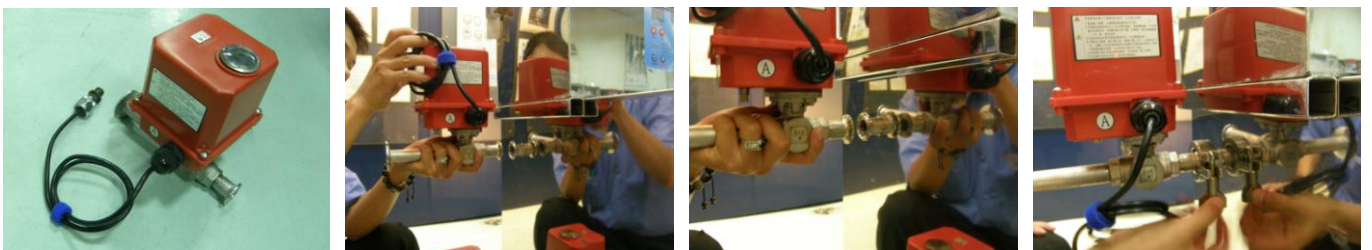
排水三通閥與電動二通閥連接 The connection of three way valve and auto two way valves.



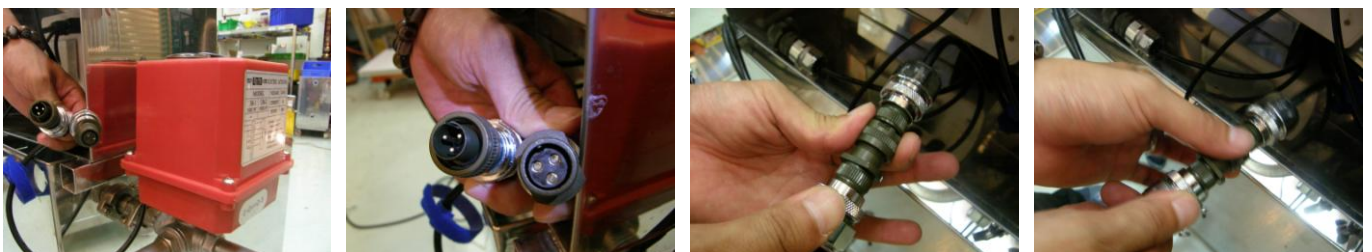
排水管與排水三通聯接 Bend drain pipe and three way valve connection.



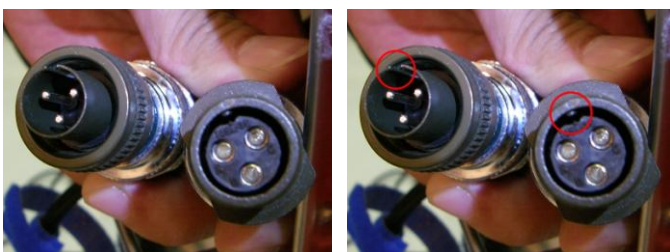
11. 電動三通閥安裝 Auto three way valve installation



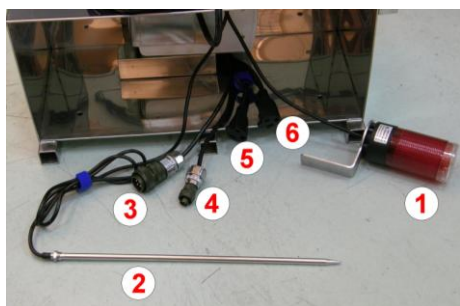
三通閥與進出水控制盒電源線連接 auto three way valve and controller wire connection.



請注意，軍規接頭安裝時，請公母接頭請對齊。 Please pay attention to the connection of wire.



12. 儲水槽配備連接線說明 The connect wires illustration



1	儲水槽溫度警示燈 Over temperature warning light of water trough.	4	三通閥連接線 Three way valve connection.
2	溫度探針 Temperature sensor.	5	沉水馬達連接線 Water pump connection.
3	排水二通閥連接線 Two way valve connection.	6	循環泵浦連接線 Circulation pump connection.

✧ 5 和 6 可以交叉使用. No. 5 and no. 6's wire is changeable.

沉水馬達與三通閥控制盒電源線連接

Wire connection of water pump and chilling water switch controller box.



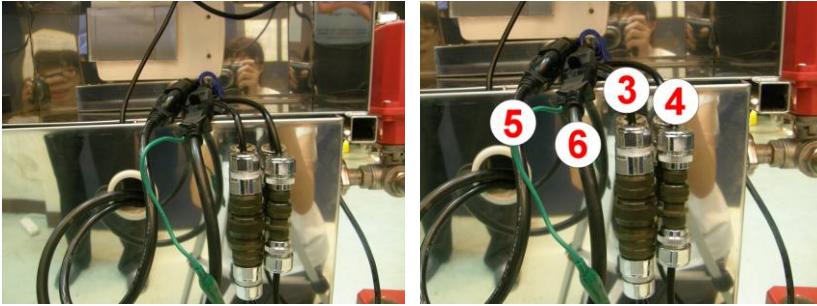
儲水槽循環泵浦與三通閥控制盒電源線連接

Wire connection of water circulation pump and chilling water switch controller box.

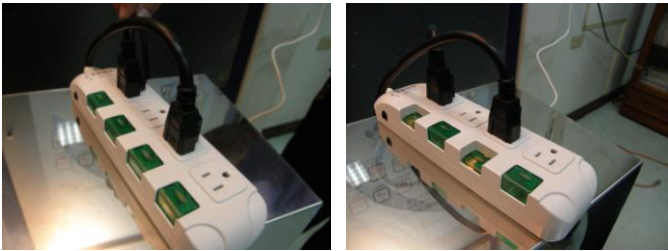


連接完畢

Wire connection is done.



請將三通閥控制器電源線插入電源孔 Please plug in the chilling water switch controller.



儲水槽配備組裝完成

The installation of water trough is done.

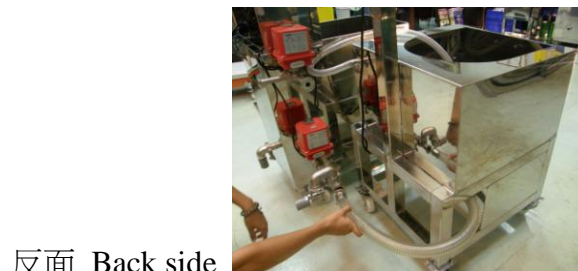


13. 冷卻機組與儲水槽管線連接〈請注意機組與儲水槽的相對位置〉

The connection of cooling machine and water trough. (please pay attention to the situation)



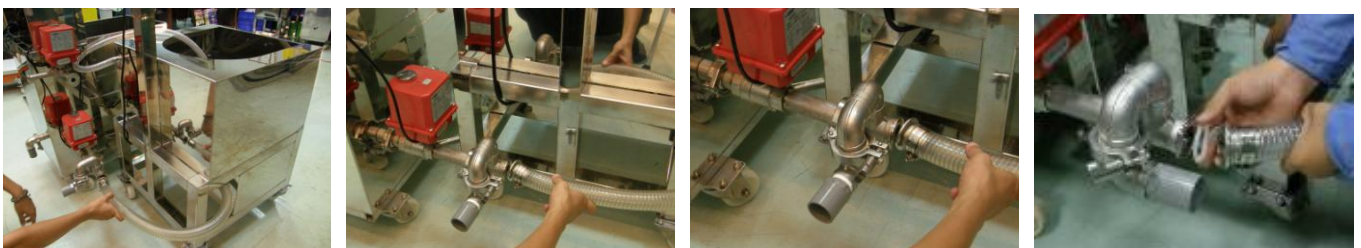
正面 Front side



反面 Back side

機組與水槽聯接管安裝：連接排水三通及機組排水管

The connection of machine and water trough, drain pipe three way valve and machine drain pipe.



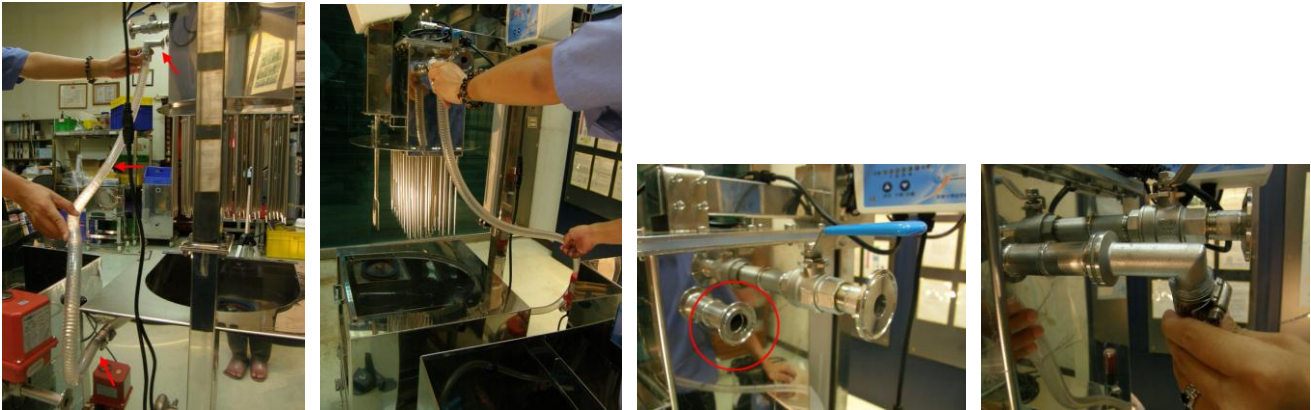


連接排水管即可完成 And connect the water drain pipe. The installation is done.



14. 機組水路安裝 Chilling water pipe installation

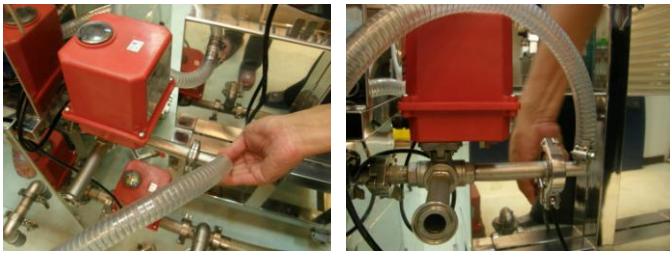
冷卻水套出水管 water out of chilling water tank installation



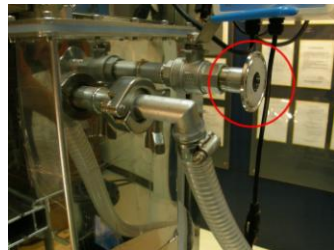
冷卻水套進水管 water into chilling water tank installation.



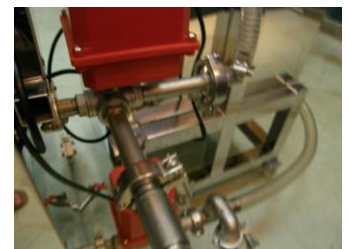
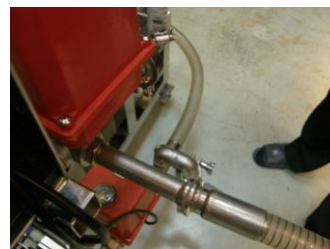
先將一頭連接至三通閥 Please connect to auto three way valve first.



再連接至冷卻水套入水管 And then connect to water into chilling water tank pipe.

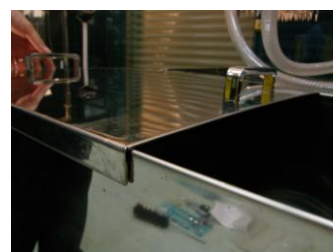


自來水入水管路連接，請將任一側連接至三通閥。 Tap water pipe connection to auto three way valve.



請將另一接頭接在自來水龍頭。 Another side, please connect to tap water faucet.

15. 放上儲水槽上蓋 Please put on the cover of water trough.



B. 使用操作說明書 Chilling Process User's Manual

1. 首先，拿起機組遮水板 Please take out the water proof gate of the machine.



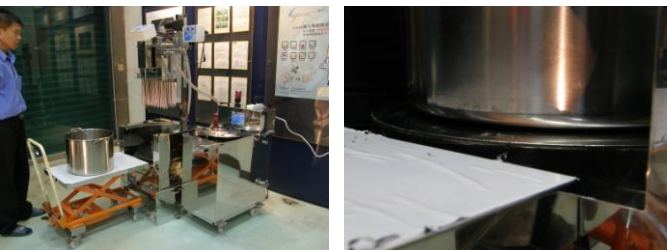
2. 利用小型台車將料槽移入機組 Use small forklift to move the food container into machine.



移入料槽前，請將小型台車後方輪子作剎車 Please brake the wheel before moving the food container.



請將台車上升至與機組轉盤同高 Please raise the food container to the same height with the machine turntable.



平行的方式移入機組中 Move the food container horizontally.



請注意料槽的位置 Please pay attention to the position of the food container.



放上機組遮水板 Please put back the water proof gate.



3. 下降機組冷卻水套〈可自動 / 手動〉：自動及手動設定模式，請參考附件 1
Chilling water tank can be lift or low down automatically or manually. Please check annex 2.



自動 Automatically

※啓動後水套會上升至最高點在向下。

After starting, the water tank will move to the top and go down to the bottom.







手動 Manually 請按住下降按鈕

4. 設定目標冷卻溫度，及攪拌速度 Target temperature and stir speed setting.



冷卻溫度設定 temperature setting



按   調整冷卻溫度，溫度會顯示在左側，為綠色數字



Press   to adjust the target temperature, and the temperature will show on the left side, green numbers.

左側紅色數字為目前食材的溫度。 Right red numbers is the current temperature of food.



攪拌速度設定 Stir speed setting

按   調整攪拌速度，攪拌速度會顯示在按鈕上方，共有六個燈。

Press   to adjust the stir speed, the speed will show on the top of the button, 6 lights in total.

按晨光標誌啓動





Press sunshine energy mark to start





5. 冷卻時間及轉盤速度設定 Chilling time and turntable speed setting.





冷卻時間設定 chilling time setting



按   調整冷卻時間，時間會顯示在左側，為綠色數字，最大值為 90。



Press   to adjust the chilling time, and the time will show on the left side, green numbers. 90 is the maximum time.

左側紅色數字為目前已冷卻的時間，以倒數計時方式顯示。 Right red numbers is the current chilling time, shows by count down.

轉盤速度設定 turntable speed setting

按   調整轉盤速度，轉盤速度會顯示在按鈕上方，共有六個燈。

Press   to adjust turntable speed, the speed will show on the top of the button, 6 lights in total.

按晨光標誌啓動  Press sunshine energy mark to start 




6. 冷卻進出水控制三通閥設定，共有三種模式。詳細設定請參閱附件 2。

Chilling water switch controller setting, there are 3 different chilling modes. For more detail operations, please check annex 2.

● **全程自來水冷卻模式 Tap water chilling only :**

請選擇全程自來水冷卻模式 Please select the chilling mode of tap water chilling







按晨光標誌啓動  Press sunshine energy mark to start


● **雙段式冷卻模式〈自來水→冰水〉 Two steps chilling mode, tap water to ice water :**

請選擇雙段式冷卻模式 Please select the chilling mode of two steps chilling mode .



請按  及  調整時間長短，會再左側顯示綠色數字。


Please press  and  to adjust the time and it will show on the left side of the panel.

按晨光標誌啓動  Press sunshine energy mark to start



- 全程冰水冷卻模式 Ice water chilling only :



按晨光標誌啓動  Press sunshine energy mark to start

※ 進水水量可用下圖的二通閥手動調整。 Chilling water can adjust by this two way valve manually.



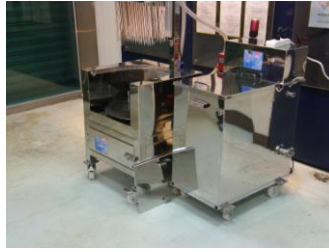
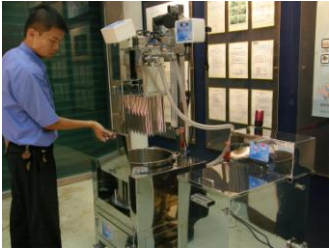
7. 開啓水源後，即開始冷卻流程 Turn on the water and the chilling process begins
8. 冷卻結束後，請關閉溫控攪拌器、時間旋轉控制器、三通閥控制器 After chilling, please turn off the temperature and stir speed controller, chilling time and turntable controller and auto chilling water switch controller.



9. 升起水套 Lift the chilling water tank up

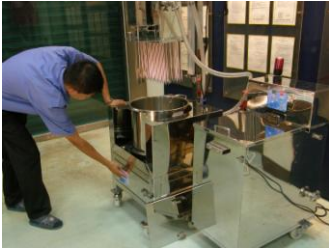


10. 拿起機組遮水板 Please take out the water proof gate of the machine.



11. 如果料槽無法順利移出，請啓動轉盤控制器，調整轉盤位置後，再移出料槽。

If you can't move out the food container, please turn on the turntable controller and adjust the turntable.



12. 小型台車移出料槽，並蓋上料槽蓋 Move out the food container by the forklift and put on the cover



小型台車下將操作說明 Operation of small forklift :



按住下降 press to low down



C. 冷卻水套清洗方式 Chilling water tank chilling method

機組工具箱內附清洗毛刷，請配合些許沙拉脫用毛刷清洗即可。 There is a brush in the kit, please use some dish soap to clean.



- ※ 切勿使用鋼刷清洗水套。
- ※ Do not use stainless steel brush to clean the tubes.

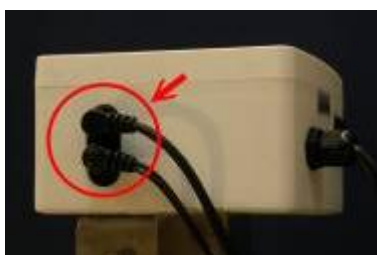
D. 機組簡易故障排除 Machine troubleshooting

1. 機組無法升降檢查 No function of lifter :

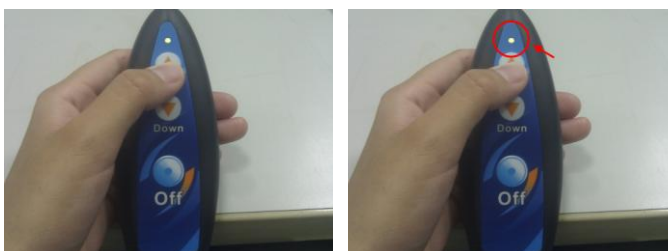
- (1) 檢查機組電源線是否有插、是否有按下延長線開關 Please check the plug of lifter controller



- (2) 檢查遙控器接線和升降桿接線是否脫落 Please check the connection the lifter and controller.



- (3) 檢查遙控器押上升下降時是否有綠燈有亮 Please check the light of remote control. If there is no green light, this means the remote is broke.



- (4) 遙控器上升或下降時，馬達有雜音，但不會作動。 The motor has noise when lifter working, but it doesn't move.

2. 攪拌溫度型故障檢查 Temperature and stir speed controller :

- (1) 面板溫度顯示完全沒亮 There is no action when turn on the button.



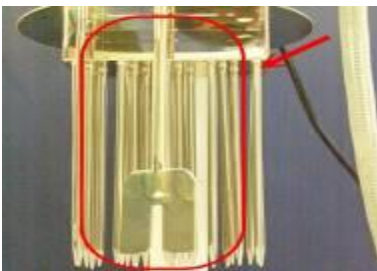
- (2) 檢查電源線是否脫落、延長線開關是否開 Please check the plug.



- (3) 檢查控制盒背後開關是否開啓 Please check the power button of the controller.



- (4) 攪拌馬達不會運轉，請檢查**設定溫度**是否低於**冷卻溫度**。(綠色字比紅色字低將無法啓動)
If the stirrer does not work, please check the panel of controller. The stirrer will not working when the **target temperature** is lower than **current temperature**.



- (5) 任何故障疑問，請聯絡辰光 If there is any question of machine, please call Sunshine Energy

3. 旋轉馬達故障檢查 The breakdown of the turntable motor :

- (1) 面板顯示完全沒亮 The motor control box doesn't show the speed light.



- (2) 檢查電源線是否脫落，延長線開關是否開 Check the connection of the plug or the power button of the extended line.



- (3) 檢查控制盒開關是否開啓 Check the power button of the stirrer speed control box.



- (4) 旋轉馬達不會運轉啓動時馬達有雜音，但沒動作，表示馬達已經毀損。The motor has noise and the turntable doesn't work (the motor doesn't work). Please contact Sunshine Energy Technology. Thank you.