



**FIRSTFIN** CORPORATION

聚熱企業股份有限公司

經營理念：

1. 不斷的提昇熱交換器的設計與製造能力。
2. 提供高品質、高效益的熱交換器。
3. 提供迅速、正確、客製化的完整服務。

聚熱公司成立於1994年，初期引進最先進的設計軟體，加上不斷的研發與改進，如今聚熱公司不僅在設計累積多年經驗，同時在製造品質上也獲得眾多海內外客戶的一致認同。公司成立迄今，不斷努力的求新求變，相繼取得國內、國外的專業認證（ISO 9001:2015；ASME）並添購先進的加工設備，投入更多的研發資源在熱交換器領域上，達到多項熱交換設備由國內首次設計與製造的首例，進而行銷到歐美日等先進國家。

聚熱的經營理念是以替客戶設計高運轉效益與低操作成本的熱交換器為宗旨。目前，聚熱業務範圍除了一般的熱交換設備外，另包括國內外中大型專案，如都市垃圾焚化廠、汽電廠及電廠、化纖廠、石化廠中之熱交換器設備。然而，我們仍會持續努力來保持領先的地位，同時不斷的開發相關產業的應用範圍。



CORPORATE PHILOSOPHY :

1. Raise the standard of design and manufacture ability constantly for heat exchangers.
2. Offer high quality and high efficiency heat exchangers.
3. Provide prompt, correct and customize service as complete package.

FIRSTFIN Corporation (FFC) was established in 1994, and was able to introduce some of the most advanced design software at that time. With continuous research and improvement, FFC was able to raise its design and manufacture ability to another new level. At the present time FFC not only accumulates much experience in Heat Exchanger design area but also gains great admiration of product quality from customers.

FFC has also trying to maintain our competitive edge in the world market by gaining local and international Heat exchanger professional manufacturing authorization certificate (ISO 9001:2015；ASME), and purchased some of the most advanced manufacturing equipment in order to improve our quality and efficiency. FFC has also investing a lot of time in the R & D field for heat exchangers, and is able to come up with a lot of pioneer design within Taiwan from both design and manufacture stand point, that no other domestic company has done it before.

FFC's business philosophy is to offer the high efficiency and low operation cost heat exchangers for our customers. Currently, other than the standard heat exchangers, the business scope of FFC also includes the heat exchangers for Municipal Incineration plant, Power plant, Chemical plant and Petro-Chemical plant.

Nevertheless, we will try even harder in the future to maintain our competitive edge, and also research and exploit more products that are able to apply in the related fields.

International License



有別於傳統的殼管式熱交換器加上冷卻水塔所組成的水冷式系統，需耗費相當大的冷卻水，在地理環境限制下或水資源缺乏的情況時，建議使用空冷器系列，其主要冷卻介質為空氣。空冷器利用空氣來當冷卻源，故不需耗費大量工業用水，而達到節水的要求。

Be different from water cooling system consisted of traditional shell & tube heat exchanger packaged with water cooling tower, which will consume a lot of water or need constant water resource. Under the restriction of geographical environment, air fin cooler is highly recommended, for which the air is the primary cooling source.

The air fin cooler uses air as its main cooling source, and hence saves a large quantity of industrial water usage in order to achieve the purpose of water-saving.

### 氣冷式冷凝器 (ACC)

將管側的氣體冷凝為液態，適用於供水量不足的地方。

### 氣冷式冷卻器 (AC)

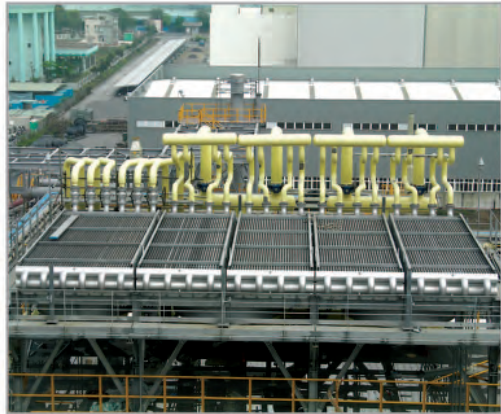
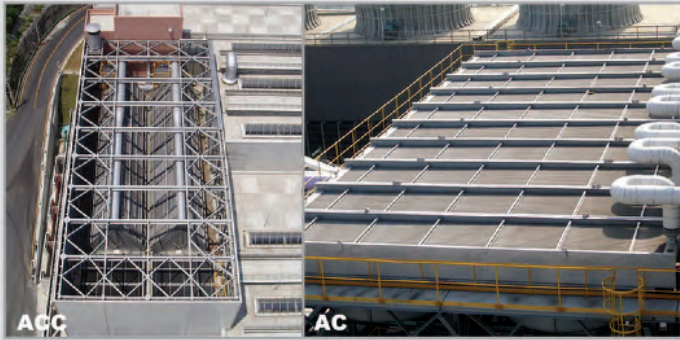
將管側的液體冷卻至所需的溫度；適用於供水量不足的地方。

### AIR COOLED CONDENSER (ACC)

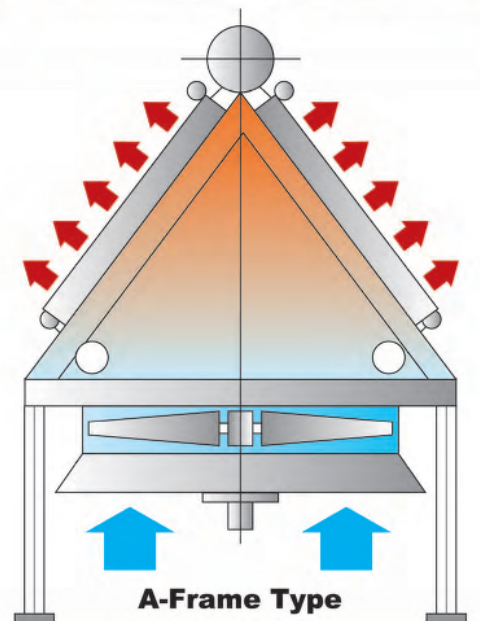
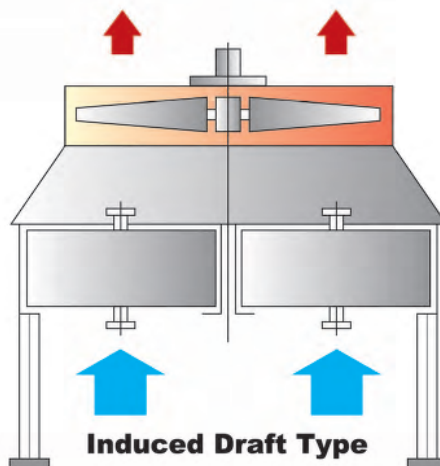
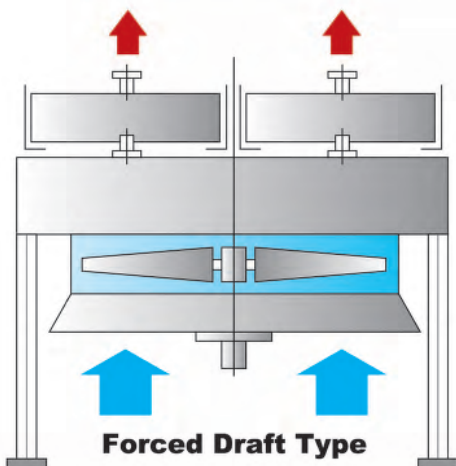
To condense the process substance within the tube from vaporous state to liquid state, suitable for places where water is insufficient.

### AIR COOLER (AC)

To cool down the process fluid to a desired temperature, suitable for places where water is insufficient.



## 三種不同型式之氣冷式冷卻(凝)器示意圖



廢熱回收設備，其主要目的是將各製程中所剩餘之餘熱做充分利用，依客戶現場需求之熱源為熱風、熱水或蒸汽，來設計出空氣預熱器節熱器或廢熱鍋爐，可應用於化工廠、焚化爐、汽電廠、造紙廠 等相關高耗能產業。

The main function of waste heat recovery equipments is to collect the waste heat from the process, and re-use it.

FFC are able to design and manufacture the Air Heaters (AH), Economizers(ECO) and Waste Heat Boilers(WHB) according to the customers requirements, e.g., hot air, hot water and steam.

These equipments are suitable for industries with high energy consuming such as petro-chemical plants, municipal Incineration plants, power plants, paper mill plants etc.

### 空氣預熱器 (AH)

利用廢氣將空氣加熱至所需溫度，供製程使用，或預熱燃燒空氣。

### 節熱器 (ECO)

利用廢熱將水或熱媒油加熱至所需的溫度，供製程使用。

### 廢熱鍋爐 (WHB)

藉由廢熱鍋爐來產生蒸汽，以提供製程之需用。

### AIR HEATER (AH)

Heat up the air to a desired temperature by waste heat, mainly used in process, or heat up combustion air.

### ECONOMIZER (ECO)

Heat up the water or thermal oil to a desired temperature by waste heat, mainly used in process.

### WASTE HEAT BOILER (WHB)

This equipment is able to produce steam by waste heat for process usage.



WHB

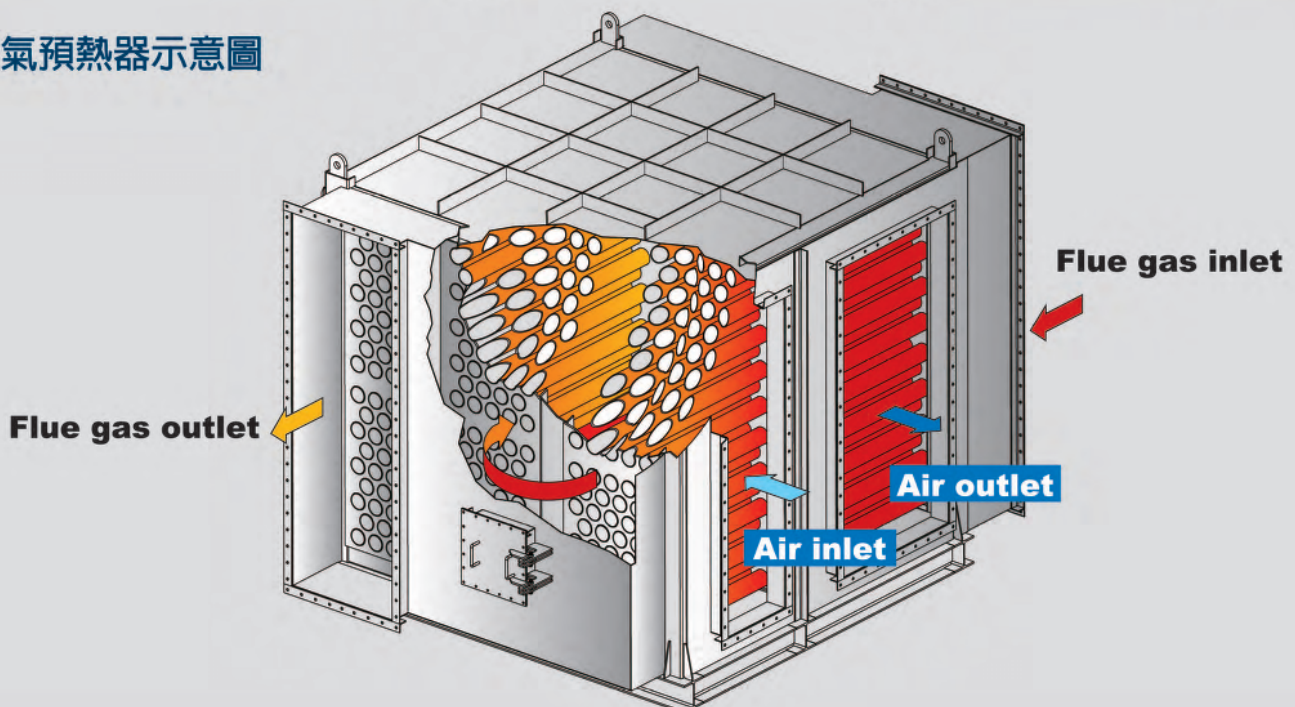


ECO



AH

## 空氣預熱器示意圖



**管殼式熱交換器(S&T)**

為最常見的一種熱交換器，應用於各式製程中。

**水冷式熱交換器(WC)**

將殼側的空氣冷卻至所需的溫度並除去空氣中過多的水份。

**蒸汽加熱器(SAH)**

將殼側的空氣利用蒸汽加熱至所需的溫度。

**SHELL & TUBE HEAT EXCHANGER (S&T)**

One of the most common heat exchanger, which can be put in use for all kinds of process application.

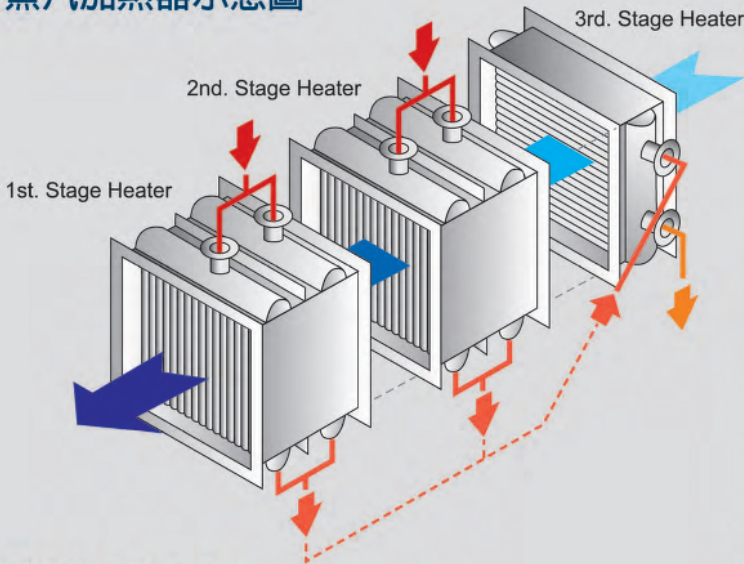
**WATER COOLER (WC)**

To cool down the air to a desired temperature, and also reduce the humidity in the same time.

**STEAM AIR HEATER (SAH)**

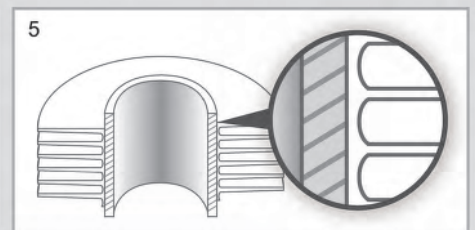
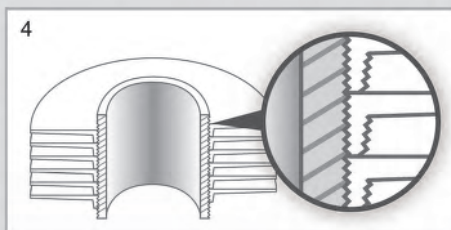
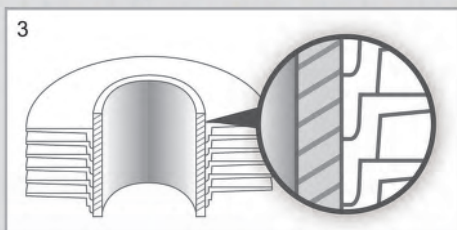
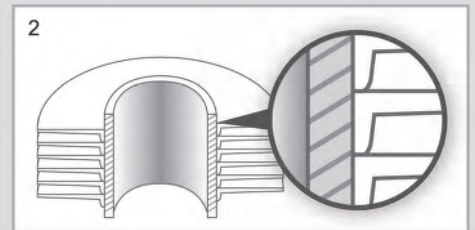
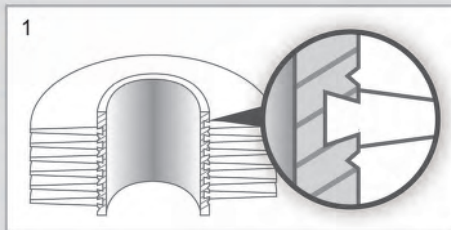
To heat up the air to a desired temperature.

**蒸汽加熱器示意圖**



**鱗片管/Fintube**

Item	EMBEDDED TYPE	"L" TYPE	"LL" TYPE	KNURLED TYPE	EXTRUDED TYPE
Drawing No.	1	2	3	4	5
Max. Temp.	400°C	130°C	130°C	200°C	300°C
Heat Transfer Eff.	Excellent	Normal	Good	Better	Better
Working Life	Long	Normal	Long	Long	Very Long
Cost	Fair	Lower	Fair	Fair	Higher





**總公司:**  
 244022新北市林口區文化二路一段266號9樓之2  
 TEL:(886-2)2546-0028 FAX:(886-2)2546-0027

**HEAD OFFICE:**  
 9F-2, No. 266, Sec. 1, Wenhua 2nd Rd., Linkou Dist.,  
 New Taipei City 244022, Taiwan  
 TEL:(886-2)2546-0028 FAX:(886-2)2546-0027

**彰化工廠:**  
 50647彰化縣福興鄉福興村福興路62-25號  
 TEL:(886-4)774-1931 FAX:(886-4)774-1930

**PLANT:**  
 No. 62-25, Fuxing Rd., Fuxing Village, Fuxing Shiang,  
 Changhua County 50647, Taiwan  
 TEL:(886-4)774-1931 FAX:(886-4)774-1930

**日本事務所**  
**兵庫:**  
 〒661-0035  
 兵庫県尼崎市武庫之荘8丁目14-20  
 Cell Phone:090-8385-5511

**JAPAN REPRESENTATIVE OFFICE**  
**HYOGO:**  
 8-14-20, Mukonosu, Amagasaki, Hyogo 661-0035, Japan  
 Cell Phone : 090-8385-5511