



# 智能風機盤管 Intelligent Fan Coil Unit

更環保、更舒適、更慳電

Make your Air-conditioning System **Greener**,  
more **Comfortable** and **SAVE** more



應用永磁馬達為核心技術，配備智能程式溫控器。

Featured with advanced Permanent Magnet Motor Technology and  
Intelligent Programmable Thermostat.

# iFCU™ 智能風機盤管

## Intelligent Fan Coil Unit

### 永磁馬達

#### Permanent Magnet Motor

iFCU™採用專利技術及永磁馬達，運轉時自行產生磁通量，從而減少能耗，達到高效運行及節能效果。永磁馬達無需傳統馬達的機械式碳刷，可減少噪音及廢熱產生，延長馬達壽命。

配備變速驅動器，永磁馬達的節能表現較傳統定速交流馬達更顯著。

iFCU™ adopted the patented technology with rotor of a permanent magnet to generate magnetic flux. Its advantages are to eliminate the source of power loss and achieve a high energy efficient operation. By eliminating mechanical brushes, permanent magnet motor can also minimize the noise level and waste heat generation, thus improves motor lifespan.

With variable speed driver, the motor further enhances efficiency system compared to traditional fixed speed AC motor designs.



備註：1. 中國專利號 ZL 2011 2 0025375.5 及 2013 2 0555659.4  
2. 「永磁馬達」中國內地名稱稱為「直流無刷電動機」。

Notes: 1. China Patent No.: ZL 2011 2 0025375.5 & 2013 2 0555659.4  
2. "Permanent Magnet Motor" is called "Brushless DC Motor" in Mainland China.

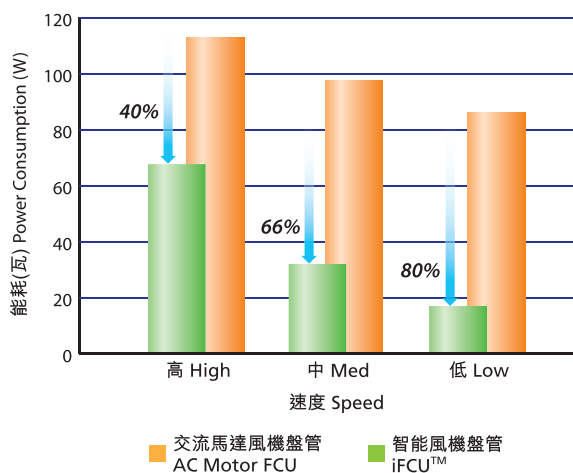
### 節能表現

#### Energy Saving Performance

採用永磁電機變頻調速控制，iFCU™與傳統交流馬達風機盤管比較，在低速運作時可以減少達80%的能耗。

By adopting of permanent magnet motor with variable speed control, iFCU™ can reduce energy consumption by 80% at low speed operation compared to traditional AC fan coil unit.

能耗比較 — 交流馬達風機盤管與智能風機盤管  
Power Consumption – AC Motor FCU vs iFCU™



| 速度<br>Speed | 能耗 (瓦)<br>Power Consumption (W) |                 | 節能<br>Power Saving |              |
|-------------|---------------------------------|-----------------|--------------------|--------------|
|             | 交流馬達風機盤管<br>AC Motor FCU        | 智能風機盤管<br>iFCU™ | (瓦)<br>(W)         | 節省<br>Saving |
| 高 High      | 112                             | 67              | - 45               | 40%          |
| 中 Med       | 98                              | 33              | - 65               | 66%          |
| 低 Low       | 85                              | 17              | - 68               | 80%          |

測試樣板：風機盤管600 CFM  
Test Specimen: FCU 600 CFM

備註：1. 此數據為靜壓 0 Pa 時測定的值。  
2. 節能表現根據馬達及風扇類型不同或有差異。

Notes: 1. The FCUs are tested at 0 Pa Static Pressure.  
2. Saving Performance may be changed subject to the configuration of motor and blower.

## 產品特點 Product Features

### 智能程式溫控器

### Intelligent Programmable Thermostat

#### 智能控制 | Intelligent Control

通過使用iFCU™永磁電機和智能程式溫控器，可根據室內溫度變化或自定溫度而自動調節風速，溫度控制精度達 $\pm 0.5^{\circ}\text{C}$ ，因此iFCU™可以節省70%的能量消耗。

iFCU™配備“快速製冷模式”，永磁馬達以較高速模式更快5%的速度運行，能在數分鐘內達致預期的室溫。

By using iFCU™ permanent magnet motor and intelligent programmable thermostat, its intelligent control can regulate the fan speed automatically according to the room temperature changes or customized temperature set point. The temperature control accuracy is up to  $\pm 0.5^{\circ}\text{C}$ . As a result, iFCU™ can save the energy consumption by 70%.

Featured with iFCU™ “Quick Cool Mode”, permanent magnet motor can increase 5% of high speed to reach the desirable room temperature within a few minutes.



#### iFCU™ Modbus 網絡通訊溫控器 Network Thermostat

Modbus/  
RTU  
(RS-485)

通訊協議可與樓宇管理系統、樓宇設備自動化系統、中央監控系統溝通。  
communication protocol with BMS/BAS/CCMS.

#### Modbus 網絡通訊溫控器 | Modbus Network Thermostat

智能程式溫控器系列Modbus網絡通訊溫控器提供Modbus/RTU(RS-485)通訊界面，與樓宇管理系統、樓宇設備自動化系統、中央監控系統進行溝通。

The IPT series Modbus Network Thermostat provides Modbus/RTU (RS-485) communication protocol interface for system integration. The IPT series can be controlled and monitored over RS-485 via Modbus/RTU by master controller or compatible to Building Management System (BMS), Building Automation System (BAS), Central Control and Monitoring System (CCMS).

### 自動控制模式節能效果更高

### Unique Control Logic Achieves Real Energy Saving

『交流馬達風機盤管配三速溫控器』於手動模式與『智能風機盤管配程式溫控器』於自動模式能耗比較（運作時間：15小時/日）  
Energy Comparison of “AC Motor FCU with 3-speed Thermostat” in manual mode & “iFCU™ with Intelligent Programmable Thermostat” in auto mode (Daily operation: 15hrs/day)

| 類別<br>Type                                                 | 速度<br>Speed | 能耗(瓦)<br>Power Consumption (W) | 節能<br>Saving | 運行模式<br>Operation Mode | 運行時間<br>Operating Hours | 每日能耗(瓦時)<br>Daily Consumption (Wh) |
|------------------------------------------------------------|-------------|--------------------------------|--------------|------------------------|-------------------------|------------------------------------|
|                                                            |             | FCU-6                          |              |                        | 小時 Hour                 | FCU-6                              |
| 交流馬達風機盤管<br>配三速溫控器<br>AC Motor FCU +<br>3-speed Thermostat | 高 High      | 112                            | N/A          | 手動控制<br>Manual         | 15                      | 1,680                              |
|                                                            | 中 Med       | 98                             |              |                        | 0                       | N/A                                |
|                                                            | 低 Low       | 85                             |              |                        | 0                       |                                    |
| 智能風機盤管<br>配程式溫控器<br>iFCU™ + Programmable<br>Thermostat     | 高 High      | 67                             | 40%          | 自動控制<br>Auto           | 1.5                     | Total (Wh) 1,680<br>100.5          |
|                                                            | 中 Med       | 33                             | 66%          |                        | 4.5                     | 148.5                              |
|                                                            | 低 Low       | 17                             | 80%          |                        | 9                       | 153                                |
|                                                            |             |                                |              |                        |                         |                                    |

節能表現根據馬達、風扇類型及使用環境不同或有差異。

Saving Performance may be varied subject to different configuration of motor, blower and application.



## 產品特點(續) Product Features (Cont'd)

### 功率因數

#### Power Factor

高功率因素可提升電力質量，減能耗，提高系統效率，達到節能效果。iFCU™在任何速度下操作，功率因數達到0.85或以上。

Benefit of high power factor could enhance power quality, reduce power loss, increase system capacity and save energy. iFCU™ operating at any speed, the power factor is reached  $\geq 0.85$ .

#### 功率因素表現 Power Factor Performance

| 參數<br>Parameters     | 速度<br>Speed | iFCU™ |
|----------------------|-------------|-------|
| 功率因素<br>Power Factor | 高 High      | 0.989 |
|                      | 中 Med       | 0.942 |
|                      | 低 Low       | 0.850 |

測試樣板：智能風機盤管6號機  
Test Specimen: iFCU-06-HCR

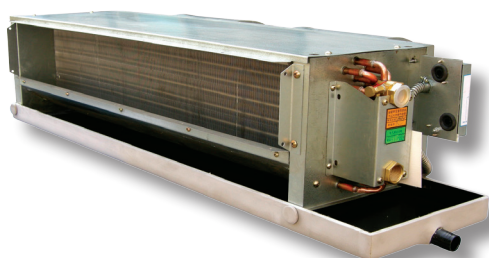
### 兩種選擇滿足您的不同需求

#### Two Options to Meet Your Needs

iFCU™提供了兩種選擇，以滿足新建築及現有建築對能源效益需求。

iFCU™ offers two options to fulfill the demand of energy efficient for both new buildings and existing buildings.

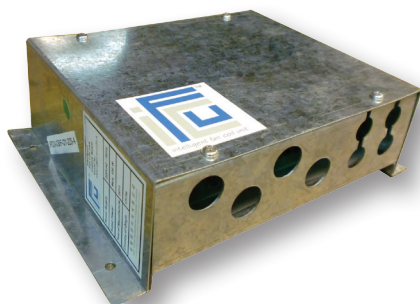
- iFCU™套裝：① 風機盤管 + ② 永磁馬達 + ③ 控制箱 + ④ 智能程式溫控器（標準版或Modbus通訊版）  
iFCU™ Package：① Fan Coil Unit + ② Permanent Magnet Motor + ③ Control Box + ④ Intelligent Programmable Thermostat (Standard version or Modbus version)
- iFCU™改裝套件：② 永磁馬達 + ③ 控制箱 + ④ 智能程式溫控器（標準版或Modbus通訊版）  
iFCU™ Retrofit Kit：② Permanent Magnet Motor + ③ Control Box + ④ Intelligent Programmable Thermostat (Standard version or Modbus version)



① 風機盤管 Fan Coil Unit



② 永磁馬達 Permanent Magnet Motor



③ 控制箱 Control Box



④ 智能程式溫控器（標準版或Modbus通訊版）  
Intelligent Programmable Thermostat  
(Standard version or Modbus version)

## 產品特點(續) Product Features (Cont'd)

### 運行溫度

#### Operating Temperature

永磁馬達在低速及高速運行時比一般交流馬達，分別減少95%及58%熱量產生。而所產生的廢熱會增加中央空調的負載，間接浪費用電。

PM Motor heat dissipation is reduced by 95% and 58% at low and high speed respectively compared with AC motor. The heat that generated will increase the cooling load of HVAC system, waste on the unnecessary use of energy.

- 壽命長 Long life time
- 減少馬達運行時產生的熱負荷 Further reduce the unexpected heat load from the fan coil motor to the system

#### 馬達運行時溫升 Operating Temperature Rise of Motor

| 速度<br>Speed | 交流馬達 (°C)<br>AC motor (°C) | 永磁馬達 (°C)<br>iFCU™ PM motor (°C) | 降低 %<br>Diff. % |
|-------------|----------------------------|----------------------------------|-----------------|
| 低 Low       | +26.9                      | +1.2                             | - 95%           |
| 中 Med       | +18.1                      | +2.3                             | - 87%           |
| 高 High      | +11.6                      | +4.9                             | - 58%           |

備註：1. 測試樣板：智能風機盤管6號機

2. 溫升表現根據馬達及風扇類型不同或有差異。

Notes: 1. Test Specimen: iFCU-06-HCR

2. Temperature Rise may be changed subject to the configuration of motor and blower.

|                                    | 智能風機盤管<br>iFCU™                                                                | 交流馬達風機盤管<br>AC Motor FCU                                      |
|------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------|
| 調溫精確度<br>Room Temperature Accuracy | <ul style="list-style-type: none"> <li>• 不超過±0.5度<br/>Within ±0.5°C</li> </ul> | <ul style="list-style-type: none"> <li>• 低<br/>Low</li> </ul> |

## 總結 Summaries

### 智能風機盤管與交流馬達風機盤管比較

#### Comparison Between iFCU™ & AC Motor FCU

|                                      | 智能風機盤管<br>iFCU™                                                                                                                                                    | 交流馬達風機盤管<br>AC Motor FCU                                                                                              |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 能源消耗<br>Energy Consumption Rate      | <ul style="list-style-type: none"> <li>• 低<br/>Low</li> <li>• 運行速度越低越節能<br/>Lower the speed, less energy is needed</li> </ul>                                      | <ul style="list-style-type: none"> <li>• 高<br/>High</li> <li>• 持續消耗大量能源<br/>Constant consumption of energy</li> </ul> |
| 機制<br>Mechanism                      | <ul style="list-style-type: none"> <li>• 永磁同步馬達<br/>Permanent Magnet Synchronous Motor</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>• 傳統交流感應馬達<br/>Conventional AC Induction Motor</li> </ul>                      |
| 效能<br>Efficiency Level               | <ul style="list-style-type: none"> <li>• 高<br/>High</li> </ul>                                                                                                     | <ul style="list-style-type: none"> <li>• 低<br/>Low</li> </ul>                                                         |
| 效能對比<br>Energy Efficiency Comparison | <ul style="list-style-type: none"> <li>• 高速運行時節能達 40%-50%<br/>Save 40-50% energy at High Speed</li> <li>• 低速運行時節能達 80%<br/>Save 80% energy at Low Speed</li> </ul> | <ul style="list-style-type: none"> <li>• 效能低<br/>Lower energy efficiency</li> </ul>                                   |
| 運行溫度<br>Operating Temperature        | <ul style="list-style-type: none"> <li>• 低<br/>Minimal</li> </ul>                                                                                                  | <ul style="list-style-type: none"> <li>• 高<br/>Higher</li> </ul>                                                      |
| 快速製冷模式<br>Quick Cool Mode            | <ul style="list-style-type: none"> <li>• 兼容*<br/>Compatible*</li> </ul>                                                                                            | <ul style="list-style-type: none"> <li>• 不兼容<br/>Nil</li> </ul>                                                       |

\* 需配合iFCU™智能程式溫控器使用

\* Should be using with iFCU™ Intelligent Programmable Thermostat

## 組件說明 Component Description

### ○ 結構緊密 Compact Structure

機組總高度控制在270mm內，方便安裝於狹窄空間。

The total height is designed within 270 mm which is suitable for installation in confined spaces.

### ○ 材質優良 Fine Material

機組外殼採用優質鍍鋅鋼板。

The casing is made of high quality galvanized steel.

### ○ 高品質盤管 High Grade Coil

採用鋁箔衝製成坡高1mm，長8mm的翅片，經專業機械加壓與優質銅管連接。所有盤管均通過25 bar壓力測試及80bar破壞性壓力測試。

Featured with slope height 1 mm, length 8 mm aluminum fins that mechanically bonded to copper tubes. All coils are tested under 25 bar and destructive pressure of 80 bar.

### ○ 超靜音風扇 Ultra-quiet Fan

採用直徑為160mm的離心風扇，可低速運行。風扇均經過動平衡測試，風量足、噪音低、效率高。

Diameter 160mm centrifugal fan functions low speed operation. All fans have passed dynamic balance test and featured with large air flow, low noise level and high efficiency.

### ○ 保養簡便 Easy Maintenance

經專業化設計，風扇和馬達安裝於同一後蓋，只需鬆開4-6顆螺絲，即可拆卸整個動力組，簡化清潔保養工作。

The fan and motor are mounted in the same back cover plate. For maintenance, only need unscrew 4-6 screws and dismantle the whole power part.

### ○ 永磁馬達 Permanent Magnet Motor

永磁馬達變速技術能根據用戶的實際需要智能調節風速，減少負荷，降低噪音，達到最佳節能效果。運行時廢熱低，馬達壽命長。

iFCU™ PM Motor utilizes variable-speed technology to optimize fan speeds for load requirement, maximizing energy efficiency and minimal noise level. Low waste heat generation improves motor lifecycle.

### ○ 冷凝水盤 Condensate Drain Pan

冷凝水盤為傾斜式自流水設計，在排水口設有儲水槽，排水更暢順。水盤內表面噴塗環氧樹脂，外表面採用PE材料保溫，有效防止腐蝕及水盤結霧。

The drain pan have a slight fall to the drain connection and flow enhanced feature at the outlet to ensure smooth condensate drainage. The interior is coated with epoxy resin and exterior insulated with PE material to prevent corrosion and condensation build-up.



# 產品規格 Specifications

## 技術數據 Technical Data

二管式三排管 2-PIPE 3-ROW | ESP 30Pa

| 型號 Model                                                          |                                     |                | iFCU-03-HCR                                                                 | iFCU-04-HCR | iFCU-05-HCR | iFCU-06-HCR | iFCU-08-HCR | iFCU-10-HCR | iFCU-12-HCR | iFCU-14-HCR |
|-------------------------------------------------------------------|-------------------------------------|----------------|-----------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 風量<br>Air Flow                                                    | 高 H                                 | m³/h           | 510                                                                         | 680         | 850         | 1020        | 1360        | 1700        | 2040        | 2380        |
|                                                                   | 中 M                                 |                | 383                                                                         | 510         | 638         | 765         | 1020        | 1275        | 1530        | 1785        |
|                                                                   | 低 L                                 |                | 255                                                                         | 340         | 425         | 510         | 680         | 850         | 1020        | 1190        |
| 製冷量 Cooling Capacity                                              |                                     | kW             | 2.7                                                                         | 3.6         | 4.5         | 5.4         | 6.5         | 9.0         | 10.8        | 12.6        |
| 製熱量 Heating Capacity                                              |                                     | kW             | 4.1                                                                         | 5.4         | 6.8         | 8.1         | 9.7         | 13.5        | 16.2        | 18.9        |
| 輸入功率<br>Power Input<br>(ESP 30Pa)                                 | 高 H                                 | W              | 33                                                                          | 44          | 54          | 65          | 87          | 109         | 131         | 152         |
|                                                                   | 中 M                                 |                | 17                                                                          | 23          | 28          | 34          | 45          | 56          | 68          | 79          |
|                                                                   | 低 L                                 |                | 10                                                                          | 13          | 16          | 19          | 26          | 32          | 39          | 45          |
| 噪音值<br>Noise Level<br>(ESP 30Pa)                                  | 高 H                                 | dB(A)          | 36.7                                                                        | 39.4        | 43.2        | 44.2        | 46.5        | 49.0        | 50.9        | 53.5        |
| 水量 Water Flow                                                     |                                     | l/s            | 0.127                                                                       | 0.172       | 0.214       | 0.258       | 0.344       | 0.430       | 0.516       | 0.603       |
| 水壓損失<br>Water Pressure Drop                                       |                                     | kPa            | 25                                                                          | 25          | 30          | 40          | 40          | 40          | 40          | 50          |
| 風扇<br>Fan                                                         | 類型 Type                             |                | 離心式風扇(前曲式鍍鋅鋼扇葉) centrifugal fan (forward-curved galvanized steel fan wheel) |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                         |                | 2                                                                           | 2           | 2           | 2           | 2           | 4           | 4           | 4           |
| 盤管<br>Coil                                                        | 類型 Type                             |                | 無縫銅管經機械加壓連接鋁翅片 seamless copper tube mechanically bonded to aluminium fin    |             |             |             |             |             |             |             |
|                                                                   | 測試壓力<br>Testing Pressure            |                | 2.5Mpa                                                                      |             |             |             |             |             |             |             |
| 馬達<br>Motor                                                       | 類型 Type                             |                | 永磁轉子馬達及滾珠軸承 Permanent magnet rotor motor with ball bearing                  |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                         |                | 1                                                                           | 1           | 1           | 1           | 1           | 2           | 2           | 2           |
|                                                                   | 電源<br>Power Supply                  | V/pH/Hz        | 220-240V/1pH/50Hz                                                           |             |             |             |             |             |             |             |
|                                                                   | 功率因素<br>Power Factor                |                | 所有運行模式均達0.85或以上 Above 0.85 at All Operation Modes                           |             |             |             |             |             |             |             |
|                                                                   | 絕緣等級<br>Insulation Class            |                | B級 Class B                                                                  |             |             |             |             |             |             |             |
| 回風溫度感應器<br>Duct Type Sensor                                       |                                     | 數量<br>Quantity | 1                                                                           | 1           | 1           | 1           | 1           | 1           | 1           | 1           |
| 控制方法 Control Method                                               |                                     |                | 變速控制 Variable Speed Control                                                 |             |             |             |             |             |             |             |
| 接管(直徑)<br>Connection<br>(Diameter)                                | 盤管接口<br>Coil<br>Conns               | 入 In           | Rc3/4                                                                       |             |             |             |             |             |             |             |
|                                                                   |                                     | 出 Out          | Rc3/4                                                                       |             |             |             |             |             |             |             |
|                                                                   | 排水管 Drain Pipe                      |                | R3/4                                                                        |             |             |             |             |             |             |             |
|                                                                   | 閥門(2門或3門)<br>Valve (2 way or 3 way) |                | R3/4                                                                        |             |             |             |             |             |             |             |
| 工作壓力<br>Working Pressure                                          |                                     | MPa            | 1.6                                                                         |             |             |             |             |             |             |             |
| 聲壓級八倍頻程<br>噪聲值<br>Sound Pressure<br>Level in Octave<br>Bands (dB) | 63 Hz                               |                | 34.4                                                                        | 36.0        | 37.8        | 39.1        | 41.7        | 41.6        | 44.4        | 45.6        |
|                                                                   | 125 Hz                              |                | 39.1                                                                        | 42.0        | 45.3        | 46.9        | 41.1        | 50.0        | 52.1        | 52.9        |
|                                                                   | 250 Hz                              |                | 30.5                                                                        | 32.6        | 37.4        | 39.0        | 41.0        | 43.1        | 45.1        | 48.4        |
|                                                                   | 500 Hz                              |                | 34.5                                                                        | 39.1        | 40.8        | 40.8        | 43.0        | 45.4        | 46.9        | 48.6        |
|                                                                   | 1000 Hz                             |                | 32.0                                                                        | 33.9        | 39.5        | 40.8        | 42.8        | 45.0        | 47.1        | 50.2        |
|                                                                   | 2000 Hz                             |                | 29.1                                                                        | 30.4        | 35.2        | 36.4        | 39.7        | 42.0        | 44.2        | 46.3        |
|                                                                   | 4000 Hz                             |                | 19.9                                                                        | 22.6        | 27.9        | 29.1        | 29.4        | 34.0        | 36.5        | 40.0        |
|                                                                   | 8000 Hz                             |                | 21.7                                                                        | 21.8        | 22.8        | 24.6        | 24.8        | 31.0        | 32.1        | 35.7        |

V1.2014

備註：1. 製冷量是在DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C下的值；  
2. 製熱量是在DB=21°C, TW1≤60°C下的值；  
3. 風量、製冷量及製熱量是在無過濾網，機外靜壓為30 Pa時測定的值。

Notes: 1. Cooling: DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C;  
2. Heating: DB=21°C, TW1≤60°C;  
3. The air flow, cooling capacity and heating capacity are tested under ESP 30 Pa and without filter.

製冷表現

Cooling Performance

二管式三排管 2-PIPE 3-ROW

| 型號<br>Model No. | 風量<br>Air Flow<br>(m³/h) | 水量<br>Water Flow<br>(L/S) | 水壓損失<br>Water Pressure Drop<br>(kPa) | Inlet Wind Temperature 進風溫度 24/17° C |                          |                                 |                          |                                 |                          | Inlet Wind Temperature 進風溫度 25/18° C |                          |                                 |                          |                                 |                          | Inlet Wind Temperature 進風溫度 26/19° C |                          |                                 |                          |                                 |                          |
|-----------------|--------------------------|---------------------------|--------------------------------------|--------------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|--------------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|--------------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|
|                 |                          |                           |                                      | Inlet Water Temperature 進水 6° C      |                          | Inlet Water Temperature 進水 7° C |                          | Inlet Water Temperature 進水 8° C |                          | Inlet Water Temperature 進水 6° C      |                          | Inlet Water Temperature 進水 7° C |                          | Inlet Water Temperature 進水 8° C |                          | Inlet Water Temperature 進水 6° C      |                          | Inlet Water Temperature 進水 7° C |                          | Inlet Water Temperature 進水 8° C |                          |
|                 |                          |                           |                                      | 顯熱<br>Sensible Heat<br>(kW)          | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)     | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)     | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)          | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)     | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)     | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)          | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)     | 總熱<br>Total Heat<br>(kW) | 顯熱<br>Sensible Heat<br>(kW)     | 總熱<br>Total Heat<br>(kW) |
|                 |                          |                           |                                      |                                      |                          |                                 |                          |                                 |                          |                                      |                          |                                 |                          |                                 |                          |                                      |                          |                                 |                          |                                 |                          |
| iFCU-03-HCR     | 510                      | 0.042                     | <25                                  | 1.34                                 | 1.50                     | 1.29                            | 1.38                     | 1.20                            | 1.29                     | 1.39                                 | 1.66                     | 1.33                            | 1.53                     | 1.29                            | 1.41                     | 1.41                                 | 1.78                     | 1.36                            | 1.66                     | 1.33                            | 1.56                     |
|                 |                          | 0.085                     | <25                                  | 1.54                                 | 2.01                     | 1.47                            | 1.85                     | 1.40                            | 1.69                     | 1.59                                 | 2.21                     | 1.52                            | 2.04                     | 1.45                            | 1.88                     | 1.64                                 | 2.42                     | 1.57                            | 2.26                     | 1.50                            | 2.09                     |
|                 |                          | 0.127                     | <25                                  | 1.65                                 | 2.29                     | 1.59                            | 2.10                     | 1.50                            | 1.92                     | 1.72                                 | 2.53                     | 1.64                            | 2.34                     | 1.57                            | 2.15                     | 1.79                                 | 2.78                     | 1.70                            | 2.58                     | 1.62                            | 2.39                     |
| iFCU-04-HCR     | 680                      | 0.169                     | <25                                  | 1.72                                 | 2.43                     | 1.64                            | 2.21                     | 1.55                            | 2.01                     | 1.79                                 | 2.68                     | 1.71                            | 2.48                     | 1.62                            | 2.26                     | 1.86                                 | 2.95                     | 1.77                            | 2.75                     | 1.69                            | 2.53                     |
|                 |                          | 0.057                     | <25                                  | 1.83                                 | 2.03                     | 1.76                            | 1.86                     | 1.62                            | 1.76                     | 1.89                                 | 2.25                     | 1.80                            | 2.07                     | 1.76                            | 1.90                     | 1.92                                 | 2.41                     | 1.85                            | 2.25                     | 1.80                            | 2.11                     |
|                 |                          | 0.115                     | <25                                  | 2.07                                 | 2.68                     | 1.98                            | 2.47                     | 1.89                            | 2.25                     | 2.14                                 | 2.96                     | 2.05                            | 2.72                     | 1.96                            | 2.51                     | 2.21                                 | 3.23                     | 2.12                            | 3.02                     | 2.03                            | 2.79                     |
| iFCU-05-HCR     | 850                      | 0.172                     | <25                                  | 2.23                                 | 3.05                     | 2.13                            | 2.80                     | 2.02                            | 2.56                     | 2.32                                 | 3.38                     | 2.20                            | 3.11                     | 2.11                            | 2.87                     | 2.41                                 | 3.71                     | 2.30                            | 3.45                     | 2.18                            | 3.18                     |
|                 |                          | 0.229                     | <25                                  | 2.32                                 | 3.27                     | 2.21                            | 2.98                     | 2.09                            | 2.71                     | 2.42                                 | 3.60                     | 2.30                            | 3.33                     | 2.18                            | 3.04                     | 2.51                                 | 3.96                     | 2.39                            | 3.69                     | 2.28                            | 3.40                     |
|                 |                          | 0.072                     | <30                                  | 2.49                                 | 2.53                     | 2.35                            | 2.39                     | 2.21                            | 2.25                     | 2.63                                 | 2.67                     | 2.49                            | 2.53                     | 2.35                            | 2.39                     | 2.50                                 | 3.09                     | 2.62                            | 2.68                     | 2.49                            | 2.54                     |
| iFCU-06-HCR     | 1020                     | 0.144                     | <30                                  | 2.77                                 | 3.55                     | 2.65                            | 3.24                     | 2.54                            | 2.95                     | 2.85                                 | 3.90                     | 2.74                            | 3.61                     | 2.62                            | 3.30                     | 2.93                                 | 4.26                     | 2.82                            | 3.97                     | 2.71                            | 3.68                     |
|                 |                          | 0.216                     | <30                                  | 2.95                                 | 4.00                     | 2.82                            | 3.67                     | 2.70                            | 3.36                     | 3.06                                 | 4.41                     | 2.92                            | 4.08                     | 2.80                            | 3.76                     | 3.15                                 | 4.84                     | 3.02                            | 4.50                     | 2.89                            | 4.16                     |
|                 |                          | 0.288                     | <30                                  | 3.07                                 | 4.28                     | 2.93                            | 3.93                     | 2.78                            | 3.58                     | 3.19                                 | 4.74                     | 3.04                            | 4.38                     | 2.90                            | 4.02                     | 3.29                                 | 5.20                     | 3.15                            | 4.84                     | 3.01                            | 4.48                     |
| iFCU-08-HCR     | 1360                     | 0.086                     | <40                                  | 2.70                                 | 3.09                     | 2.60                            | 2.84                     | 2.47                            | 2.60                     | 2.80                                 | 3.42                     | 2.67                            | 3.15                     | 2.60                            | 2.90                     | 2.83                                 | 3.67                     | 2.74                            | 3.42                     | 2.67                            | 3.21                     |
|                 |                          | 0.172                     | <40                                  | 3.07                                 | 4.04                     | 2.94                            | 3.72                     | 2.81                            | 3.40                     | 3.17                                 | 4.46                     | 3.04                            | 4.10                     | 2.91                            | 3.78                     | 3.27                                 | 4.87                     | 3.14                            | 4.55                     | 3.01                            | 4.20                     |
|                 |                          | 0.258                     | <40                                  | 3.30                                 | 4.57                     | 3.16                            | 4.21                     | 2.99                            | 3.84                     | 3.43                                 | 5.07                     | 3.26                            | 4.67                     | 3.13                            | 4.31                     | 3.57                                 | 5.57                     | 3.40                            | 5.17                     | 3.23                            | 4.77                     |
| iFCU-10-HCR     | 1700                     | 0.344                     | <40                                  | 3.44                                 | 4.87                     | 3.26                            | 4.44                     | 3.09                            | 4.04                     | 3.57                                 | 5.37                     | 3.40                            | 4.97                     | 3.23                            | 4.54                     | 3.71                                 | 5.90                     | 3.54                            | 5.50                     | 3.37                            | 5.07                     |
|                 |                          | 0.113                     | <40                                  | 3.51                                 | 3.29                     | 3.38                            | 3.03                     | 2.64                            | 3.38                     | 3.65                                 | 3.65                     | 3.47                            | 3.36                     | 3.38                            | 3.10                     | 3.68                                 | 3.92                     | 3.56                            | 3.65                     | 3.47                            | 3.42                     |
|                 |                          | 0.227                     | <40                                  | 3.78                                 | 4.73                     | 3.62                            | 4.36                     | 3.98                            | 3.98                     | 3.91                                 | 5.22                     | 3.24                            | 4.81                     | 3.58                            | 4.43                     | 4.07                                 | 5.71                     | 3.87                            | 5.34                     | 3.70                            | 4.92                     |
| iFCU-12-HCR     | 2040                     | 0.340                     | <40                                  | 4.10                                 | 5.49                     | 3.92                            | 5.05                     | 3.71                            | 4.61                     | 4.26                                 | 6.08                     | 4.05                            | 5.61                     | 3.88                            | 5.17                     | 4.43                                 | 6.68                     | 4.22                            | 6.20                     | 4.01                            | 5.72                     |
|                 |                          | 0.453                     | <40                                  | 4.28                                 | 5.91                     | 4.07                            | 5.38                     | 3.85                            | 4.90                     | 4.46                                 | 6.52                     | 4.24                            | 6.08                     | 4.02                            | 5.51                     | 4.63                                 | 7.16                     | 4.41                            | 6.68                     | 4.19                            | 6.16                     |
|                 |                          | 0.143                     | <40                                  | 4.66                                 | 5.21                     | 4.49                            | 4.79                     | 4.16                            | 4.49                     | 4.83                                 | 5.78                     | 4.60                            | 5.31                     | 4.49                            | 4.89                     | 4.89                                 | 6.19                     | 4.72                            | 5.78                     | 4.60                            | 5.41                     |
| iFCU-14-HCR     | 2380                     | 0.287                     | <40                                  | 5.22                                 | 6.67                     | 4.99                            | 6.14                     | 4.76                            | 5.61                     | 5.39                                 | 7.36                     | 5.16                            | 6.78                     | 4.93                            | 6.25                     | 5.56                                 | 8.05                     | 5.33                            | 7.52                     | 5.10                            | 6.93                     |
|                 |                          | 0.430                     | <40                                  | 5.61                                 | 7.62                     | 5.38                            | 7.01                     | 5.09                            | 6.40                     | 5.84                                 | 8.45                     | 5.55                            | 7.79                     | 5.32                            | 7.18                     | 6.07                                 | 9.28                     | 5.78                            | 8.61                     | 5.49                            | 7.95                     |
|                 |                          | 0.573                     | <40                                  | 5.86                                 | 8.18                     | 5.57                            | 7.45                     | 5.28                            | 6.78                     | 6.10                                 | 9.02                     | 5.80                            | 8.35                     | 5.51                            | 7.62                     | 6.33                                 | 9.91                     | 6.04                            | 9.24                     | 5.74                            | 8.51                     |
| iFCU-12-HCR     | 2040                     | 0.172                     | <40                                  | 5.52                                 | 6.16                     | 5.31                            | 5.67                     | 4.93                            | 5.31                     | 5.72                                 | 6.84                     | 5.45                            | 6.29                     | 5.31                            | 5.79                     | 5.79                                 | 7.33                     | 5.58                            | 6.84                     | 5.45                            | 6.41                     |
|                 |                          | 0.344                     | <40                                  | 6.23                                 | 8.04                     | 5.96                            | 7.40                     | 5.69                            | 6.76                     | 6.43                                 | 8.87                     | 6.16                            | 8.17                     | 5.89                            | 7.53                     | 6.63                                 | 9.70                     | 6.36                            | 9.06                     | 6.09                            | 8.36                     |
|                 |                          | 0.516                     | <40                                  | 6.68                                 | 9.14                     | 6.40                            | 8.41                     | 6.06                            | 7.69                     | 6.95                                 | 10.14                    | 6.61                            | 9.34                     | 6.33                            | 8.61                     | 7.23                                 | 11.13                    | 6.89                            | 10.34                    | 6.54                            | 9.54                     |
| iFCU-14-HCR     | 2380                     | 0.688                     | <40                                  | 6.98                                 | 9.81                     | 6.63                            | 8.93                     | 6.28                            | 8.13                     | 7.26                                 | 10.81                    | 6.91                            | 10.01                    | 6.56                            | 9.13                     | 7.54                                 | 11.89                    | 7.19                            | 11.08                    | 6.84                            | 10.21                    |
|                 |                          | 0.200                     | <50                                  | 6.33                                 | 7.09                     | 6.10                            | 6.53                     | 5.68                            | 6.10                     | 6.56                                 | 7.87                     | 6.25                            | 7.24                     | 6.10                            | 6.67                     | 6.64                                 | 8.44                     | 6.40                            | 7.87                     | 6.25                            | 7.38                     |
|                 |                          | 0.400                     | <50                                  | 7.20                                 | 9.38                     | 6.89                            | 8.64                     | 6.58                            | 7.89                     | 7.44                                 | 10.35                    | 7.13                            | 9.53                     | 6.81                            | 8.79                     | 7.67                                 | 11.32                    | 7.36                            | 10.57                    | 7.05                            | 9.76                     |
| iFCU-14-HCR     | 2380                     | 0.600                     | <50                                  | 7.72                                 | 10.66                    | 7.40                            | 9.81                     | 7.01                            | 8.96                     | 8.04                                 | 11.82                    | 7.64                            | 10.89                    | 7.32                            | 10.04                    | 8.36                                 | 12.98                    | 7.96                            | 12.05                    | 7.56                            | 11.12                    |
|                 |                          | 0.800                     | <50                                  | 8.06                                 | 11.38                    | 7.66                            | 10.37                    | 7.26                            | 9.44                     | 8.39                                 | 12.55                    | 7.98                            | 11.62                    | 7.58                            | 10.60                    | 8.71                                 | 13.80                    | 8.31                            | 12.87                    | 7.90                            | 11.85                    |

| 型號<br>Model No. | 風量<br>Air Flow<br>(m³/h) | 水量<br>Water Flow<br>(L/S) | 水壓損失<br>Water Pressure Drop<br>(kPa) | Inlet Wind Temperature 進風溫度 26/20° C |                 |                                 |                 |                                 |                 | Inlet Wind Temperature 進風溫度 27/19.5° C |                 |                                 |                 |                                 |                 | Inlet Wind Temperature 進風溫度 28/21° C |                 |                                 |                 |                                 |                 |                 |                 |
|-----------------|--------------------------|---------------------------|--------------------------------------|--------------------------------------|-----------------|---------------------------------|-----------------|---------------------------------|-----------------|----------------------------------------|-----------------|---------------------------------|-----------------|---------------------------------|-----------------|--------------------------------------|-----------------|---------------------------------|-----------------|---------------------------------|-----------------|-----------------|-----------------|
|                 |                          |                           |                                      | Inlet Water Temperature 進水 6° C      |                 | Inlet Water Temperature 進水 7° C |                 | Inlet Water Temperature 進水 8° C |                 | Inlet Water Temperature 進水 6° C        |                 | Inlet Water Temperature 進水 7° C |                 | Inlet Water Temperature 進水 8° C |                 | Inlet Water Temperature 進水 6° C      |                 | Inlet Water Temperature 進水 7° C |                 | Inlet Water Temperature 進水 8° C |                 |                 |                 |
|                 |                          |                           |                                      | 顯熱<br>Heat (kW)                      | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                 | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                 | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                        | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                 | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                 | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                      | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                 | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW)                 | 總熱<br>Heat (kW) | 顯熱<br>Heat (kW) | 總熱<br>Heat (kW) |
|                 |                          |                           |                                      |                                      |                 |                                 |                 |                                 |                 |                                        |                 |                                 |                 |                                 |                 |                                      |                 |                                 |                 |                                 |                 |                 |                 |
| iFCU-03-HCR     | 510                      |                           | 0.042                                | <25                                  | 1.33            | 1.93                            | 1.28            | 1.81                            | 1.23            | 1.66                                   | 1.49            | 1.90                            | 1.44            | 1.75                            | 1.39            | 1.65                                 | 1.49            | 2.15                            | 1.42            | 1.96                            | 1.37            | 1.85            |                 |
|                 |                          |                           | 0.085                                | <25                                  | 1.57            | 2.64                            | 1.52            | 2.47                            | 1.45            | 2.29                                   | 1.72            | 2.53                            | 1.67            | 2.39                            | 1.59            | 2.20                                 | 1.74            | 2.87                            | 1.67            | 2.68                            | 1.60            | 2.52            |                 |
|                 |                          |                           | 0.127                                | <25                                  | 1.72            | 3.03                            | 1.65            | 2.85                            | 1.57            | 2.65                                   | 1.88            | 2.93                            | 1.79            | 2.70                            | 1.70            | 2.52                                 | 1.89            | 3.33                            | 1.82            | 3.11                            | 1.74            | 2.92            |                 |
|                 |                          |                           | 0.169                                | <25                                  | 1.81            | 3.21                            | 1.72            | 3.01                            | 1.64            | 2.80                                   | 1.95            | 3.08                            | 1.86            | 2.88                            | 1.79            | 2.68                                 | 1.98            | 3.51                            | 1.89            | 3.31                            | 1.83            | 3.10            |                 |
| iFCU-04-HCR     | 680                      |                           | 0.057                                | <25                                  | 1.80            | 2.61                            | 1.74            | 2.45                            | 1.67            | 2.25                                   | 2.03            | 2.57                            | 1.96            | 2.37                            | 1.89            | 2.23                                 | 2.03            | 2.92                            | 1.94            | 2.65                            | 1.87            | 2.51            |                 |
|                 |                          |                           | 0.115                                | <25                                  | 2.12            | 3.53                            | 2.05            | 3.30                            | 1.96            | 3.06                                   | 2.32            | 3.38                            | 2.25            | 3.19                            | 2.14            | 2.93                                 | 2.34            | 3.83                            | 2.25            | 3.57                            | 2.16            | 3.36            |                 |
|                 |                          |                           | 0.172                                | <25                                  | 2.32            | 4.04                            | 2.23            | 3.80                            | 2.11            | 3.53                                   | 2.52            | 3.91                            | 2.41            | 3.60                            | 2.30            | 3.36                                 | 2.55            | 4.44                            | 2.46            | 4.15                            | 2.34            | 3.89            |                 |
|                 |                          |                           | 0.229                                | <25                                  | 2.44            | 4.32                            | 2.32            | 4.05                            | 2.21            | 3.76                                   | 2.63            | 4.14                            | 2.51            | 3.87                            | 2.42            | 3.60                                 | 2.67            | 4.72                            | 2.56            | 4.45                            | 2.46            | 4.16            |                 |
| iFCU-05-HCR     | 850                      |                           | 0.072                                | <30                                  | 2.31            | 3.27                            | 2.25            | 3.10                            | 2.17            | 2.88                                   | 2.63            | 3.24                            | 2.76            | 2.82                            | 2.62            | 2.68                                 | 2.57            | 3.56                            | 2.51            | 3.38                            | 2.43            | 3.17            |                 |
|                 |                          |                           | 0.144                                | <30                                  | 2.77            | 4.58                            | 2.66            | 4.27                            | 2.56            | 4.00                                   | 3.08            | 4.46                            | 2.97            | 4.17                            | 2.85            | 3.85                                 | 3.06            | 4.98                            | 2.96            | 4.72                            | 2.86            | 4.42            |                 |
|                 |                          |                           | 0.216                                | <30                                  | 3.03            | 5.26                            | 2.90            | 4.92                            | 2.77            | 4.57                                   | 3.31            | 5.07                            | 3.18            | 4.73                            | 3.05            | 4.39                                 | 3.33            | 5.74                            | 3.21            | 5.39                            | 3.08            | 5.04            |                 |
|                 |                          |                           | 0.288                                | <30                                  | 3.19            | 5.68                            | 3.05            | 5.32                            | 2.90            | 4.93                                   | 3.46            | 5.45                            | 3.32            | 5.09                            | 3.18            | 4.72                                 | 3.51            | 6.21                            | 3.37            | 5.84                            | 3.23            | 5.44            |                 |
| iFCU-06-HCR     | 1020                     |                           | 0.086                                | <40                                  | 2.67            | 3.98                            | 2.57            | 3.73                            | 2.47            | 3.42                                   | 3.00            | 3.92                            | 2.90            | 3.61                            | 2.80            | 3.39                                 | 3.00            | 4.44                            | 2.87            | 4.04                            | 2.77            | 3.83            |                 |
|                 |                          |                           | 0.172                                | <40                                  | 3.14            | 5.32                            | 3.04            | 4.97                            | 2.91            | 4.62                                   | 3.44            | 5.10                            | 3.34            | 4.81                            | 3.17            | 4.43                                 | 3.47            | 5.77                            | 3.34            | 5.39                            | 3.21            | 5.07            |                 |
|                 |                          |                           | 0.258                                | <40                                  | 3.43            | 6.06                            | 3.30            | 5.70                            | 3.13            | 5.30                                   | 3.74            | 5.86                            | 3.57            | 5.40                            | 3.40            | 5.04                                 | 3.77            | 6.66                            | 3.64            | 6.23                            | 3.47            | 5.83            |                 |
|                 |                          |                           | 0.344                                | <40                                  | 3.61            | 6.44                            | 3.44            | 6.04                            | 3.26            | 5.60                                   | 3.88            | 6.17                            | 3.71            | 5.77                            | 3.57            | 5.37                                 | 3.95            | 7.04                            | 3.78            | 6.64                            | 3.64            | 6.20            |                 |
| iFCU-08-HCR     | 1360                     |                           | 0.113                                | <40                                  | 3.47            | 4.75                            | 3.34            | 3.99                            | 3.21            | 3.65                                   | 3.90            | 4.19                            | 3.77            | 3.85                            | 3.65            | 3.62                                 | 3.90            | 4.74                            | 3.73            | 4.31                            | 3.60            | 4.09            |                 |
|                 |                          |                           | 0.227                                | <40                                  | 3.87            | 6.24                            | 1.74            | 5.82                            | 5.58            | 5.41                                   | 4.24            | 5.98                            | 4.11            | 5.63                            | 3.91            | 5.18                                 | 4.28            | 6.76                            | 4.11            | 6.31                            | 3.95            | 5.93            |                 |
|                 |                          |                           | 0.340                                | <40                                  | 4.26            | 7.27                            | 4.10            | 6.84                            | 3.88            | 6.36                                   | 4.64            | 7.04                            | 4.43            | 6.48                            | 4.22            | 6.04                                 | 4.68            | 7.99                            | 4.51            | 7.47                            | 4.30            | 6.99            |                 |
|                 |                          |                           | 0.453                                | <40                                  | 4.50            | 7.81                            | 4.28            | 7.33                            | 4.07            | 6.80                                   | 4.84            | 7.49                            | 4.63            | 7.00                            | 4.46            | 6.52                                 | 4.92            | 8.54                            | 4.72            | 8.06                            | 4.54            | 7.52            |                 |
| iFCU-10-HCR     | 1700                     |                           | 0.143                                | <40                                  | 4.60            | 6.71                            | 4.43            | 6.30                            | 4.26            | 5.78                                   | 5.17            | 6.61                            | 5.00            | 6.09                            | 4.83            | 5.73                                 | 5.17            | 7.50                            | 4.94            | 6.82                            | 4.77            | 6.45            |                 |
|                 |                          |                           | 0.287                                | <40                                  | 5.33            | 8.79                            | 5.16            | 8.20                            | 4.93            | 7.62                                   | 5.84            | 8.42                            | 5.67            | 7.94                            | 5.39            | 7.30                                 | 5.90            | 9.53                            | 5.67            | 8.89                            | 5.44            | 8.36            |                 |
|                 |                          |                           | 0.430                                | <40                                  | 5.84            | 10.10                           | 5.61            | 9.50                            | 5.32            | 8.83                                   | 6.36            | 9.77                            | 6.07            | 9.00                            | 5.78            | 8.39                                 | 6.42            | 11.10                           | 6.19            | 10.38                           | 5.90            | 9.72            |                 |
|                 |                          |                           | 0.573                                | <40                                  | 6.15            | 10.81                           | 5.86            | 10.14                           | 5.57            | 9.41                                   | 6.62            | 10.36                           | 6.33            | 9.69                            | 6.10            | 9.02                                 | 6.74            | 11.82                           | 6.45            | 11.15                           | 6.21            | 10.42           |                 |
| iFCU-12-HCR     | 2040                     |                           | 0.172                                | <40                                  | 5.45            | 7.95                            | 5.25            | 7.46                            | 5.05            | 6.84                                   | 6.12            | 7.83                            | 5.92            | 7.21                            | 5.72            | 6.78                                 | 6.12            | 8.87                            | 5.85            | 8.07                            | 5.65            | 7.64            |                 |
|                 |                          |                           | 0.344                                | <40                                  | 6.36            | 10.59                           | 6.16            | 9.89                            | 5.89            | 9.19                                   | 6.97            | 10.14                           | 6.77            | 9.57                            | 6.43            | 8.80                                 | 7.04            | 11.48                           | 6.77            | 10.72                           | 6.50            | 10.08           |                 |
|                 |                          |                           | 0.516                                | <40                                  | 6.95            | 12.13                           | 6.68            | 11.40                           | 6.33            | 10.60                                  | 7.57            | 11.73                           | 7.23            | 10.80                           | 6.89            | 10.07                                | 7.64            | 13.32                           | 7.37            | 12.46                           | 7.02            | 11.66           |                 |
|                 |                          |                           | 0.688                                | <40                                  | 7.33            | 12.96                           | 6.98            | 12.16                           | 6.63            | 11.28                                  | 7.89            | 12.43                           | 7.54            | 11.62                           | 7.26            | 10.81                                | 8.03            | 14.17                           | 7.68            | 13.37                           | 7.40            | 12.49           |                 |
| iFCU-14-HCR     | 2380                     |                           | 0.200                                | <50                                  | 6.25            | 9.15                            | 6.02            | 8.58                            | 5.79            | 7.87                                   | 7.02            | 9.01                            | 6.79            | 8.30                            | 6.56            | 7.80                                 | 7.02            | 10.22                           | 6.71            | 9.29                            | 6.48            | 8.80            |                 |
|                 |                          |                           | 0.400                                | <50                                  | 7.36            | 12.36                           | 7.13            | 11.54                           | 6.81            | 10.72                                  | 8.06            | 11.84                           | 7.83            | 11.17                           | 7.44            | 10.28                                | 8.14            | 13.40                           | 7.83            | 12.51                           | 7.52            | 11.77           |                 |
|                 |                          |                           | 0.600                                | <50                                  | 8.04            | 14.13                           | 7.72            | 13.29                           | 7.32            | 12.36                                  | 8.76            | 13.67                           | 8.36            | 12.59                           | 7.96            | 11.74                                | 8.48            | 15.53                           | 8.52            | 14.52                           | 8.12            | 13.59           |                 |
|                 |                          |                           | 0.800                                | <50                                  | 8.47            | 15.05                           | 8.06            | 14.11                           | 7.66            | 13.10                                  | 9.11            | 14.43                           | 8.71            | 13.49                           | 8.39            | 12.55                                | 9.27            | 16.45                           | 8.87            | 15.52                           | 8.55            | 14.50           |                 |



iFCU™ 產品規格 Specifications

技術數據

Technical Data

二管式三排管 2-PIPE 3-ROW | ESP 50Pa

| 型 號 Model                                                         |                                          |                | iFCU-03-HCR                                                                  | iFCU-04-HCR | iFCU-05-HCR | iFCU-06-HCR | iFCU-08-HCR | iFCU-10-HCR | iFCU-12-HCR | iFCU-14-HCR |
|-------------------------------------------------------------------|------------------------------------------|----------------|------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 風量<br>Air Flow                                                    | 高 H                                      | m³/h           | 510                                                                          | 680         | 850         | 1020        | 1360        | 1700        | 2040        | 2380        |
|                                                                   | 中 M                                      |                | 383                                                                          | 510         | 638         | 765         | 1020        | 1275        | 1530        | 1785        |
|                                                                   | 低 L                                      |                | 255                                                                          | 340         | 425         | 510         | 680         | 850         | 1020        | 1190        |
| 製冷量 Cooling Capacity                                              |                                          | kW             | 2.7                                                                          | 3.6         | 4.5         | 5.4         | 6.5         | 9.0         | 10.8        | 12.6        |
| 製熱量 Heating Capacity                                              |                                          | kW             | 4.0                                                                          | 5.4         | 6.7         | 8.1         | 9.7         | 13.5        | 16.2        | 18.9        |
| 輸入功率<br>Power Input<br>(ESP 50Pa)                                 | 高 H                                      | W              | 44                                                                           | 54          | 65          | 87          | 109         | 131         | 152         | 178         |
|                                                                   | 中 M                                      |                | 23                                                                           | 28          | 34          | 45          | 56          | 68          | 79          | 92          |
|                                                                   | 低 L                                      |                | 13                                                                           | 16          | 19          | 26          | 32          | 39          | 45          | 52          |
| 噪音值<br>Noise Level<br>(ESP 50Pa)                                  | 高 H                                      | dB(A)          | 42.8                                                                         | 43.5        | 44.5        | 47.0        | 49.8        | 51.4        | 53.1        | 55.3        |
| 水量 Water Flow                                                     |                                          | l/s            | 0.127                                                                        | 0.172       | 0.214       | 0.258       | 0.344       | 0.430       | 0.516       | 0.603       |
| 水壓損失<br>Water Pressure Drop                                       |                                          | kPa            | 25                                                                           | 25          | 30          | 40          | 40          | 40          | 40          | 50          |
| 風扇<br>Fan                                                         | 類型 Type                                  |                | 離心式風扇 (前曲式鍍鋅鋼扇葉) centrifugal fan (forward-curved galvanized steel fan wheel) |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                              |                | 2                                                                            | 2           | 2           | 2           | 2           | 4           | 4           | 4           |
| 盤管<br>Coil                                                        | 類型 Type                                  |                | 無縫銅管經機械加壓連接鋁翅片 seamless copper tube mechanically bonded to aluminium fin     |             |             |             |             |             |             |             |
|                                                                   | 測試壓力<br>Testing Pressure                 |                | 2.5Mpa                                                                       |             |             |             |             |             |             |             |
| 馬達<br>Motor                                                       | 類型 Type                                  |                | 永磁轉子馬達及滾珠軸承 Permanent magnet rotor motor with ball bearing                   |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                              |                | 1                                                                            | 1           | 1           | 1           | 1           | 2           | 2           | 2           |
|                                                                   | 電源<br>Power Supply                       | V/pH/Hz        | 220-240V/1pH/50Hz                                                            |             |             |             |             |             |             |             |
|                                                                   | 功率因素<br>Power Factor                     |                | 所有運行模式均達0.85或以上 Above 0.85 at All Operation Modes                            |             |             |             |             |             |             |             |
|                                                                   | 絕緣等級<br>Insulation Class                 |                | B級 Class B                                                                   |             |             |             |             |             |             |             |
| 回風溫度感應器<br>Duct Type Sensor                                       |                                          | 數量<br>Quantity | 1                                                                            | 1           | 1           | 1           | 1           | 1           | 1           | 1           |
| 控制方法 Control Method                                               |                                          |                | 變速控制 Variable Speed Control                                                  |             |             |             |             |             |             |             |
| 接管 (直徑)<br>Connection<br>(Diameter)                               | 盤管接口<br>Coil Conns                       | 入 In           | Rc3/4                                                                        |             |             |             |             |             |             |             |
|                                                                   |                                          | 出 Out          | Rc3/4                                                                        |             |             |             |             |             |             |             |
|                                                                   | 排水管 Drain Pipe                           |                | R3/4                                                                         |             |             |             |             |             |             |             |
|                                                                   | 閥門 ( 2 門或 3 門)<br>Valve (2 way or 3 way) |                | R3/4                                                                         |             |             |             |             |             |             |             |
| 工作壓力<br>Working Pressure                                          |                                          | MPa            | 1.6                                                                          |             |             |             |             |             |             |             |
| 聲壓級八倍頻程<br>噪聲值<br>Sound Pressure<br>Level in Octave<br>Bands (dB) | 63 Hz                                    |                | 38.8                                                                         | 38.6        | 38.7        | 42.5        | 44.2        | 44.7        | 46.3        | 47.0        |
|                                                                   | 125 Hz                                   |                | 44.0                                                                         | 45.1        | 46.8        | 48.9        | 51.3        | 52.8        | 53.5        | 54.9        |
|                                                                   | 250 Hz                                   |                | 36.8                                                                         | 36.2        | 39.5        | 42.7        | 43.3        | 45.0        | 46.2        | 50.1        |
|                                                                   | 500 Hz                                   |                | 40.0                                                                         | 42.7        | 41.0        | 43.1        | 46.8        | 49.2        | 49.1        | 50.9        |
|                                                                   | 1000 Hz                                  |                | 39.1                                                                         | 37.9        | 41.2        | 43.2        | 45.4        | 46.2        | 50.0        | 51.9        |
|                                                                   | 2000 Hz                                  |                | 35.4                                                                         | 35.7        | 36.9        | 39.9        | 43.2        | 44.6        | 45.7        | 48.1        |
|                                                                   | 4000 Hz                                  |                | 26.0                                                                         | 27.6        | 28.2        | 32.6        | 35.0        | 36.9        | 38.5        | 41.9        |
|                                                                   | 8000 Hz                                  |                | 23.8                                                                         | 24.8        | 24.3        | 28.1        | 30.0        | 33.1        | 34.5        | 37.0        |

備註： 1. 製冷量是在DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C下的值；  
2. 製熱量是在DB=21°C, TW1≤60°C下的值；  
3. 風量、製冷量及製熱量是在無過濾網，機外靜壓為50 Pa時測定的值。

Notes: 1. Cooling: DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C;  
2. Heating: DB=21°C, TW1≤60°C;  
3. The air flow, cooling capacity and heating capacity are tested under ESP 50 Pa and without filter.

# 技術數據

## Technical Data

四管式3+1排管 4-PIPE 3+1-ROW | ESP 30Pa

| 型號 Model                                                          |                                         |                | iFCU-03-HCR                                                                  | iFCU-04-HCR | iFCU-05-HCR | iFCU-06-HCR | iFCU-08-HCR | iFCU-10-HCR | iFCU-12-HCR | iFCU-14-HCR |
|-------------------------------------------------------------------|-----------------------------------------|----------------|------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 風量<br>Air Flow                                                    | 高 H                                     | m³/h           | 510                                                                          | 680         | 850         | 1020        | 1360        | 1700        | 2040        | 2380        |
|                                                                   | 中 M                                     |                | 383                                                                          | 510         | 638         | 765         | 1020        | 1275        | 1530        | 1785        |
|                                                                   | 低 L                                     |                | 255                                                                          | 340         | 425         | 510         | 680         | 850         | 1020        | 1190        |
| 製冷量 (3排管)<br>Cooling Capacity (3 Row)                             |                                         | kW             | 2.7                                                                          | 3.6         | 4.5         | 5.4         | 6.5         | 9.0         | 10.8        | 12.6        |
| 製熱量 (1排管)<br>Heating Capacity (3 Row)                             |                                         | kW             | 1.9                                                                          | 2.4         | 3.0         | 3.4         | 4.2         | 5.3         | 6.1         | 7.2         |
| 輸入功率<br>Power Input<br>(ESP 30Pa)                                 | 高 H                                     | W              | 37                                                                           | 51          | 63          | 71          | 97          | 131         | 154         | 180         |
|                                                                   | 中 M                                     |                | 19                                                                           | 26          | 32          | 37          | 50          | 68          | 80          | 93          |
|                                                                   | 低 L                                     |                | 11                                                                           | 15          | 18          | 21          | 29          | 39          | 45          | 53          |
| 噪音值<br>Noise Level<br>(ESP 30Pa)                                  | 高 H                                     | dB(A)          | 38.0                                                                         | 40.7        | 44.5        | 45.5        | 47.8        | 50.3        | 52.2        | 54.8        |
| 水量 (3排管)<br>Water Flow (3 Row)                                    |                                         | l/s            | 0.127                                                                        | 0.172       | 0.214       | 0.258       | 0.344       | 0.430       | 0.516       | 0.603       |
| 水量 (1排管)<br>Water Flow (1 Row)                                    |                                         | l/s            | 0.047                                                                        | 0.058       | 0.072       | 0.083       | 0.111       | 0.127       | 0.147       | 0.172       |
| 水壓損失<br>Water Pressure Drop                                       |                                         | kPa            | 25                                                                           | 25          | 30          | 40          | 40          | 40          | 40          | 50          |
| 風扇<br>Fan                                                         | 類型 Type                                 |                | 離心式風扇 (前曲式鍍鋅鋼扇葉) centrifugal fan (forward-curved galvanized steel fan wheel) |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                             |                | 2                                                                            | 2           | 2           | 2           | 2           | 4           | 4           | 4           |
| 盤管<br>Coil                                                        | 類型 Type                                 |                | 無縫銅管經機械加壓連接鋁翅片 seamless copper tube mechanically bonded to aluminium fin     |             |             |             |             |             |             |             |
|                                                                   | 測試壓力<br>Testing Pressure                |                | 2.5Mpa                                                                       |             |             |             |             |             |             |             |
| 馬達<br>Motor                                                       | 類型 Type                                 |                | 永磁轉子馬達及滾珠軸承 Permanent magnet rotor motor with ball bearing                   |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                             |                | 1                                                                            | 1           | 1           | 1           | 1           | 2           | 2           | 2           |
|                                                                   | 電源<br>Power Supply                      | V/pH/Hz        | 220-240V/1pH/50Hz                                                            |             |             |             |             |             |             |             |
|                                                                   | 功率因素<br>Power Factor                    |                | 所有運行模式均達0.85或以上 Above 0.85 at All Operation Modes                            |             |             |             |             |             |             |             |
|                                                                   | 絕緣等級<br>Insulation Class                |                | B級 Class B                                                                   |             |             |             |             |             |             |             |
| 回風溫度感應器<br>Duct Type Sensor                                       |                                         | 數量<br>Quantity | 1                                                                            | 1           | 1           | 1           | 1           | 1           | 1           | 1           |
| 控制方法 Control Method                                               |                                         |                | 變速控制 Variable Speed Control                                                  |             |             |             |             |             |             |             |
| 接管 (直徑)<br>Connection<br>(Diameter)                               | 盤管接口<br>Coil Conns                      | 入 In           | Rc3/4                                                                        |             |             |             |             |             |             |             |
|                                                                   |                                         | 出 Out          | Rc3/4                                                                        |             |             |             |             |             |             |             |
|                                                                   | 排水管 Drain Pipe                          |                | R3/4                                                                         |             |             |             |             |             |             |             |
|                                                                   | 閥門 (2 門或 3 門)<br>Valve (2 way or 3 way) |                | R3/4                                                                         |             |             |             |             |             |             |             |
| 工作壓力<br>Working Pressure                                          |                                         | MPa            | 1.6                                                                          |             |             |             |             |             |             |             |
| 聲壓級八倍頻程<br>噪聲值<br>Sound Pressure<br>Level in Octave<br>Bands (dB) | 63 Hz                                   |                | 35.7                                                                         | 37.3        | 39.1        | 40.4        | 43.0        | 42.9        | 45.7        | 46.9        |
|                                                                   | 125 Hz                                  |                | 42.4                                                                         | 43.3        | 46.6        | 48.2        | 49.4        | 51.3        | 53.4        | 54.2        |
|                                                                   | 250 Hz                                  |                | 31.8                                                                         | 33.9        | 38.7        | 40.2        | 42.3        | 44.4        | 46.4        | 49.7        |
|                                                                   | 500 Hz                                  |                | 35.8                                                                         | 40.4        | 42.1        | 42.0        | 44.3        | 46.7        | 48.2        | 49.9        |
|                                                                   | 1000 Hz                                 |                | 33.3                                                                         | 35.2        | 40.8        | 42.1        | 44.1        | 46.3        | 48.4        | 51.5        |
|                                                                   | 2000 Hz                                 |                | 30.4                                                                         | 31.7        | 36.5        | 37.6        | 41.0        | 43.3        | 45.5        | 47.6        |
|                                                                   | 4000 Hz                                 |                | 21.2                                                                         | 23.9        | 29.2        | 30.4        | 30.7        | 35.3        | 37.8        | 41.3        |
| 8000 Hz                                                           |                                         |                | 23.0                                                                         | 23.1        | 24.1        | 25.9        | 26.1        | 32.3        | 33.4        | 37.0        |

備註：1. 製冷量是在DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C下的值；  
2. 製熱量是在DB=21°C, TW1≤60°C下的值；  
3. 風量、製冷量及製熱量是在無過濾網，機外靜壓為30 Pa時測定的值。

Notes: 1. Cooling: DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C;  
2. Heating: DB=21°C, TW1≤60°C;  
3. The air flow, cooling capacity and heating capacity are tested under ESP 30 Pa and without filter.

V1.2014

## 製熱表現

### Heating Performance

四管式3+1排管 4-PIPE 3+1-ROW

| 型號<br>Model No. | 風量<br>Air Flow<br>(m³/h) | 水量<br>Water Flow<br>(L/S) | 水壓損失<br>Water Pressure Drop<br>(kPa) | Inlet Wind Temperature 進風溫度 18° C |       |       |       |       | Inlet Wind Temperature 進風溫度 21° C |       |       |       |       |
|-----------------|--------------------------|---------------------------|--------------------------------------|-----------------------------------|-------|-------|-------|-------|-----------------------------------|-------|-------|-------|-------|
|                 |                          |                           |                                      | Inlet Water Temperature 進水溫度      |       |       |       |       | Inlet Water Temperature 進水溫度      |       |       |       |       |
|                 |                          |                           |                                      | Heat 熱量 (kW)                      |       |       |       |       | Heat 熱量 (kW)                      |       |       |       |       |
|                 |                          |                           |                                      | 45° C                             | 50° C | 55° C | 60° C | 65° C | 45° C                             | 50° C | 55° C | 60° C | 65° C |
| iFCU-03-HCR     | 510                      | 0.016                     | <25                                  | 1.00                              | 1.23  | 1.46  | 1.68  | 1.89  | 0.92                              | 1.14  | 1.35  | 1.55  | 1.74  |
|                 |                          | 0.031                     | <25                                  | 1.23                              | 1.48  | 1.74  | 2.01  | 2.27  | 1.14                              | 1.37  | 1.61  | 1.86  | 2.10  |
|                 |                          | 0.047                     | <25                                  | 1.31                              | 1.59  | 1.85  | 2.14  | 2.41  | 1.21                              | 1.47  | 1.72  | 1.98  | 2.23  |
|                 |                          | 0.063                     | <25                                  | 1.36                              | 1.64  | 1.93  | 2.20  | 2.48  | 1.26                              | 1.52  | 1.78  | 2.04  | 2.30  |
| iFCU-04-HCR     | 680                      | 0.019                     | <25                                  | 1.26                              | 1.55  | 1.84  | 2.11  | 2.37  | 1.16                              | 1.43  | 1.70  | 1.95  | 2.19  |
|                 |                          | 0.039                     | <25                                  | 1.55                              | 1.86  | 2.18  | 2.52  | 2.84  | 1.43                              | 1.72  | 2.02  | 2.33  | 2.63  |
|                 |                          | 0.058                     | <25                                  | 1.64                              | 1.99  | 2.32  | 2.68  | 3.01  | 1.52                              | 1.84  | 2.15  | 2.48  | 2.79  |
|                 |                          | 0.077                     | <25                                  | 1.69                              | 2.05  | 2.41  | 2.75  | 3.10  | 1.57                              | 1.90  | 2.23  | 2.55  | 2.88  |
| iFCU-05-HCR     | 850                      | 0.023                     | <30                                  | 1.46                              | 1.74  | 2.01  | 2.28  | 2.55  | 1.30                              | 1.57  | 1.84  | 2.11  | 2.38  |
|                 |                          | 0.046                     | <30                                  | 1.87                              | 2.22  | 2.56  | 2.91  | 3.26  | 1.66                              | 2.01  | 2.35  | 2.70  | 3.05  |
|                 |                          | 0.070                     | <30                                  | 2.07                              | 2.45  | 2.83  | 3.21  | 3.60  | 1.83                              | 2.22  | 2.60  | 2.98  | 3.36  |
|                 |                          | 0.093                     | <30                                  | 2.17                              | 2.57  | 2.98  | 3.38  | 3.78  | 1.93                              | 2.33  | 2.73  | 3.13  | 3.53  |
| iFCU-06-HCR     | 1020                     | 0.028                     | <40                                  | 1.77                              | 2.18  | 2.59  | 2.97  | 3.33  | 1.63                              | 2.01  | 2.39  | 2.74  | 3.08  |
|                 |                          | 0.055                     | <40                                  | 2.18                              | 2.62  | 3.07  | 3.55  | 4.00  | 2.01                              | 2.42  | 2.84  | 3.28  | 3.70  |
|                 |                          | 0.083                     | <40                                  | 2.31                              | 2.79  | 3.26  | 3.77  | 4.24  | 2.14                              | 2.59  | 3.03  | 3.49  | 3.93  |
|                 |                          | 0.111                     | <40                                  | 2.39                              | 2.89  | 3.40  | 3.89  | 4.38  | 2.22                              | 2.68  | 3.15  | 3.60  | 4.06  |
| iFCU-08-HCR     | 1360                     | 0.037                     | <40                                  | 2.10                              | 2.59  | 3.08  | 3.53  | 3.96  | 1.94                              | 2.39  | 2.84  | 3.26  | 3.65  |
|                 |                          | 0.073                     | <40                                  | 2.59                              | 3.11  | 3.66  | 4.22  | 4.77  | 2.39                              | 2.88  | 3.38  | 3.91  | 4.41  |
|                 |                          | 0.110                     | <40                                  | 2.75                              | 3.34  | 3.90  | 4.50  | 5.07  | 2.56                              | 3.10  | 3.61  | 4.17  | 4.69  |
|                 |                          | 0.147                     | <40                                  | 2.86                              | 3.46  | 4.06  | 4.64  | 5.24  | 2.65                              | 3.20  | 3.76  | 4.30  | 4.85  |
| iFCU-10-HCR     | 1700                     | 0.042                     | <40                                  | 2.68                              | 3.31  | 3.93  | 4.51  | 5.06  | 2.47                              | 3.05  | 3.63  | 4.16  | 4.67  |
|                 |                          | 0.085                     | <40                                  | 3.31                              | 3.98  | 4.68  | 5.40  | 6.09  | 3.06                              | 3.68  | 4.33  | 4.99  | 5.63  |
|                 |                          | 0.127                     | <40                                  | 3.52                              | 4.26  | 4.98  | 5.74  | 6.47  | 3.26                              | 3.95  | 4.61  | 5.32  | 5.99  |
|                 |                          | 0.169                     | <40                                  | 3.65                              | 4.41  | 5.18  | 5.92  | 6.68  | 3.38                              | 4.09  | 4.80  | 5.49  | 6.19  |
| iFCU-12-HCR     | 2040                     | 0.049                     | <40                                  | 3.10                              | 3.82  | 4.54  | 5.20  | 5.84  | 2.86                              | 3.52  | 4.18  | 4.80  | 5.39  |
|                 |                          | 0.098                     | <40                                  | 3.83                              | 4.61  | 5.41  | 6.24  | 7.04  | 3.54                              | 4.26  | 5.00  | 5.77  | 6.51  |
|                 |                          | 0.147                     | <40                                  | 4.07                              | 4.92  | 5.75  | 6.64  | 7.47  | 3.77                              | 4.56  | 5.33  | 6.15  | 6.93  |
|                 |                          | 0.196                     | <40                                  | 4.22                              | 5.11  | 5.99  | 6.85  | 7.73  | 3.91                              | 4.73  | 5.55  | 6.35  | 7.16  |
| iFCU-14-HCR     | 2380                     | 0.057                     | <50                                  | 3.61                              | 4.45  | 5.29  | 6.07  | 6.81  | 3.33                              | 4.11  | 4.88  | 5.60  | 6.29  |
|                 |                          | 0.115                     | <50                                  | 4.49                              | 5.40  | 6.34  | 7.31  | 8.25  | 4.15                              | 4.99  | 5.86  | 6.76  | 7.63  |
|                 |                          | 0.172                     | <50                                  | 4.77                              | 5.77  | 6.74  | 7.78  | 8.76  | 4.42                              | 5.35  | 6.25  | 7.21  | 8.12  |
|                 |                          | 0.229                     | <50                                  | 4.95                              | 5.99  | 7.03  | 8.04  | 9.06  | 4.59                              | 5.55  | 6.52  | 7.45  | 8.40  |

備註：1. 以上表格內各型號機組的冷量依據水量來計算。  
2. 以上表格內的風量為高檔風速。  
3. 進出水溫差為10°C。

Notes: 1. The cooling capacity of above models are calculated according to water flow.  
2. The wind flow is at high speed.  
3. Inlet / outlet water temperature difference is 10°C.

技術數據
Technical Data

四管式3+1排管 4-PIPE 3+1-ROW | ESP 50Pa

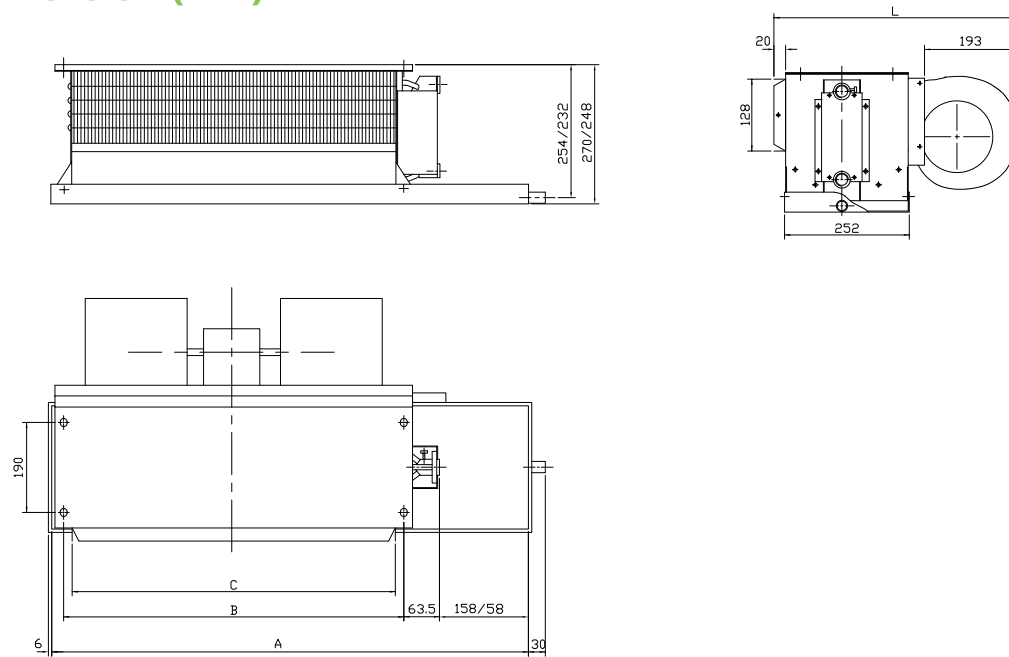
| 型 號 Model                                                         |                                          |                | iFCU-03-HCR                                                                  | iFCU-04-HCR | iFCU-05-HCR | iFCU-06-HCR | iFCU-08-HCR | iFCU-10-HCR | iFCU-12-HCR | iFCU-14-HCR |
|-------------------------------------------------------------------|------------------------------------------|----------------|------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 風量<br>Air Flow                                                    | 高 H                                      | m³/h           | 510                                                                          | 680         | 850         | 1020        | 1360        | 1700        | 2040        | 2380        |
|                                                                   | 中 M                                      |                | 383                                                                          | 510         | 638         | 765         | 1020        | 1275        | 1530        | 1785        |
|                                                                   | 低 L                                      |                | 255                                                                          | 340         | 425         | 510         | 680         | 850         | 1020        | 1190        |
| 製冷量 (3排管)<br>Cooling Capacity (3 Row)                             |                                          | kW             | 2.7                                                                          | 3.6         | 4.5         | 5.4         | 6.5         | 9.0         | 10.8        | 12.6        |
| 製熱量 (1排管)<br>Heating Capacity (3 Row)                             |                                          | kW             | 1.9                                                                          | 2.4         | 3.0         | 3.4         | 4.2         | 5.3         | 6.1         | 7.2         |
| 輸入功率<br>Power Input<br>(ESP 50Pa)                                 | 高 H                                      | W              | 51                                                                           | 63          | 71          | 97          | 124         | 154         | 180         | 206         |
|                                                                   | 中 M                                      |                | 26                                                                           | 32          | 37          | 50          | 72          | 80          | 93          | 106         |
|                                                                   | 低 L                                      |                | 15                                                                           | 18          | 21          | 29          | 39          | 45          | 53          | 61          |
| 噪音值<br>Noise Level<br>(ESP 50Pa)                                  | 高 H                                      | dB(A)          | 44.1                                                                         | 44.8        | 45.8        | 48.3        | 51.1        | 52.7        | 54.4        | 56.6        |
| 水量 (3排管)<br>Water Flow (3 Row)                                    |                                          | l/s            | 0.127                                                                        | 0.172       | 0.214       | 0.258       | 0.344       | 0.430       | 0.516       | 0.603       |
| 水量 (1排管)<br>Water Flow (1 Row)                                    |                                          | l/s            | 0.047                                                                        | 0.058       | 0.072       | 0.083       | 0.111       | 0.127       | 0.147       | 0.172       |
| 水壓損失<br>Water Pressure Drop                                       |                                          | kPa            | 25                                                                           | 25          | 30          | 40          | 40          | 40          | 40          | 50          |
| 風扇<br>Fan                                                         | 類型 Type                                  |                | 離心式風扇 (前曲式鍍鋅鋼扇葉) centrifugal fan (forward-curved galvanized steel fan wheel) |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                              |                | 2                                                                            | 2           | 2           | 2           | 2           | 4           | 4           | 4           |
| 盤管<br>Coil                                                        | 類型 Type                                  |                | 無縫銅管經機械加壓連接鋁翅片 seamless copper tube mechanically bonded to aluminium fin     |             |             |             |             |             |             |             |
|                                                                   | 測試壓力<br>Testing Pressure                 |                | 2.5Mpa                                                                       |             |             |             |             |             |             |             |
| 馬達<br>Motor                                                       | 類型 Type                                  |                | 永磁轉子馬達及滾珠軸承 Permanent magnet rotor motor with ball bearing                   |             |             |             |             |             |             |             |
|                                                                   | 數量 Quantity                              |                | 1                                                                            | 1           | 1           | 1           | 1           | 2           | 2           | 2           |
|                                                                   | 電源<br>Power Supply                       | V/pH/Hz        | 220-240V/1pH/50Hz                                                            |             |             |             |             |             |             |             |
|                                                                   | 功率因素<br>Power Factor                     |                | 所有運行模式均達0.85或以上 Above 0.85 at All Operation Modes                            |             |             |             |             |             |             |             |
|                                                                   | 絕緣等級<br>Insulation Class                 |                | B級 Class B                                                                   |             |             |             |             |             |             |             |
| 回風溫度感應器<br>Duct Type Senor                                        |                                          | 數量<br>Quantity | 1                                                                            | 1           | 1           | 1           | 1           | 1           | 1           | 1           |
| 控制方法 Control Method                                               |                                          |                | 變速控制 Variable Speed Control                                                  |             |             |             |             |             |             |             |
| 接管(直徑)<br>Connection<br>(Diameter)                                | 盤管接口<br>Coil Conns                       | 入 In           | Rc3/4                                                                        |             |             |             |             |             |             |             |
|                                                                   |                                          | 出 Out          | Rc3/4                                                                        |             |             |             |             |             |             |             |
|                                                                   | 排水管 Drain Pipe                           |                | R3/4                                                                         |             |             |             |             |             |             |             |
|                                                                   | 閥門 ( 2 門或 3 門)<br>Valve (2 way or 3 way) |                | R3/4                                                                         |             |             |             |             |             |             |             |
| 工作壓力<br>Working Pressure                                          |                                          | MPa            | 1.6                                                                          |             |             |             |             |             |             |             |
| 聲壓級八倍頻程<br>噪聲值<br>Sound Pressure<br>Level in Octave<br>Bands (dB) | 63 Hz                                    |                | 40.1                                                                         | 39.9        | 40.0        | 43.8        | 45.5        | 46.0        | 47.6        | 48.3        |
|                                                                   | 125 Hz                                   |                | 45.3                                                                         | 46.4        | 48.1        | 50.1        | 52.6        | 54.1        | 54.8        | 56.2        |
|                                                                   | 250 Hz                                   |                | 38.1                                                                         | 37.5        | 40.8        | 44.0        | 44.6        | 46.3        | 47.5        | 51.4        |
|                                                                   | 500 Hz                                   |                | 41.3                                                                         | 44.0        | 42.3        | 44.3        | 48.1        | 50.5        | 50.4        | 52.2        |
|                                                                   | 1000 Hz                                  |                | 40.4                                                                         | 39.2        | 42.5        | 44.5        | 46.7        | 47.5        | 51.3        | 53.2        |
|                                                                   | 2000 Hz                                  |                | 36.7                                                                         | 37.0        | 38.2        | 41.1        | 44.5        | 45.9        | 47.0        | 49.4        |
|                                                                   | 4000 Hz                                  |                | 27.3                                                                         | 28.9        | 29.5        | 33.9        | 36.3        | 38.2        | 39.8        | 43.2        |
|                                                                   | 8000 Hz                                  |                | 25.1                                                                         | 26.1        | 25.6        | 29.3        | 21.3        | 34.4        | 35.8        | 38.3        |

備註： 1. 製冷量是在DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C下的值；
2. 製熱量是在DB=21°C, TW1≤60°C下的值；
3. 風量、製冷量及製熱量是在無過濾網，機外靜壓為50 Pa時測定的值。

Notes: 1. Cooling: DB=27°C, WB=19.5°C, TW1=7°C, ΔTW≤5°C;
2. Heating: DB=21°C, TW1≤60°C;
3. The air flow, cooling capacity and heating capacity are tested under ESP 50 Pa and without filter.



## 尺寸圖 Dimension (mm)



二管式三排管 2-PIPE 3-ROW

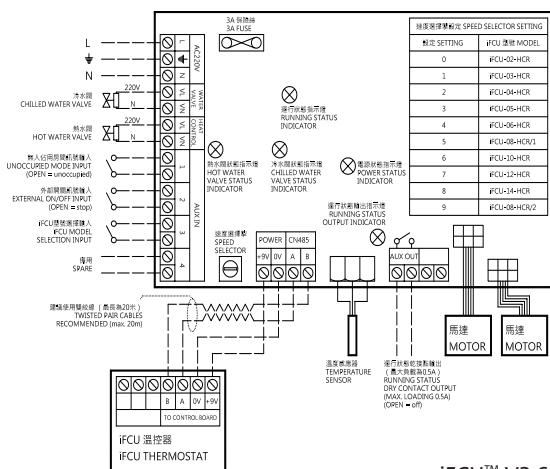
| 型號<br>Model | 外形尺寸<br>Size (mm) |      |      |      |         | 數量<br>QTY |             | 淨重<br>N.W. (kg) |
|-------------|-------------------|------|------|------|---------|-----------|-------------|-----------------|
|             | 長<br>L            | 闊 W  |      |      | 高<br>H  | 風扇<br>Fan | 馬達<br>Motor |                 |
|             |                   | A    | B    | C    |         |           |             |                 |
| iFCU-03-HCR | 491               | 909  | 650  | 620  | 270/248 | 2         | 1           | 21              |
| iFCU-04-HCR | 491               | 1009 | 750  | 720  | 270/248 | 2         | 1           | 23              |
| iFCU-05-HCR | 491               | 1149 | 890  | 860  | 270/248 | 2         | 1           | 25              |
| iFCU-06-HCR | 491               | 1229 | 970  | 940  | 270/248 | 2         | 1           | 27              |
| iFCU-08-HCR | 491               | 1421 | 1162 | 1132 | 270/248 | 2         | 1           | 29              |
| iFCU-10-HCR | 491               | 1589 | 1330 | 1300 | 270/248 | 4         | 2           | 40              |
| iFCU-12-HCR | 491               | 1729 | 1470 | 1440 | 270/248 | 4         | 2           | 42              |
| iFCU-14-HCR | 491               | 1989 | 1730 | 1700 | 270/248 | 4         | 2           | 48              |

四管式3+1排管 4-PIPE 3+1-ROW

| 型號<br>Model     | 外形尺寸<br>Size (mm) |      |      |      |         | 數量<br>QTY |             | 淨重<br>N.W. (kg) |
|-----------------|-------------------|------|------|------|---------|-----------|-------------|-----------------|
|                 | 長<br>L            | 闊 W  |      |      | 高<br>H  | 風扇<br>Fan | 馬達<br>Motor |                 |
|                 |                   | A    | B    | C    |         |           |             |                 |
| iFCU-03-HCR-3+1 | 491               | 909  | 650  | 620  | 270/248 | 2         | 1           | 25              |
| iFCU-04-HCR-3+1 | 491               | 1009 | 750  | 720  | 270/248 | 2         | 1           | 28              |
| iFCU-05-HCR-3+1 | 491               | 1149 | 890  | 860  | 270/248 | 2         | 1           | 32              |
| iFCU-06-HCR-3+1 | 491               | 1229 | 970  | 940  | 270/248 | 2         | 1           | 34              |
| iFCU-08-HCR-3+1 | 491               | 1421 | 1162 | 1132 | 270/248 | 2         | 1           | 38              |
| iFCU-10-HCR-3+1 | 491               | 1589 | 1330 | 1300 | 270/248 | 4         | 2           | 50              |
| iFCU-12-HCR-3+1 | 491               | 1729 | 1470 | 1440 | 270/248 | 4         | 2           | 53              |
| iFCU-14-HCR-3+1 | 491               | 1989 | 1730 | 1700 | 270/248 | 4         | 2           | 60              |

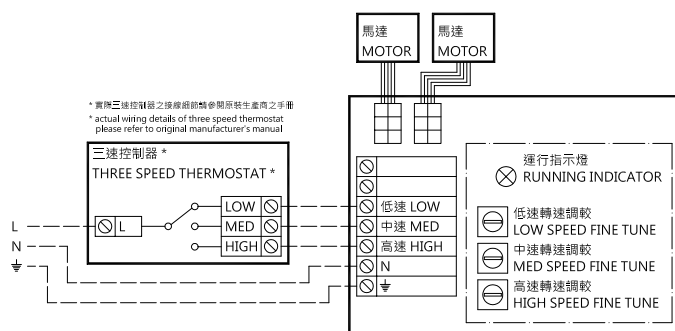
## 電氣接線圖 Wiring Diagram

智能控制板接線圖  
Intelligent Control Board Wiring Diagram



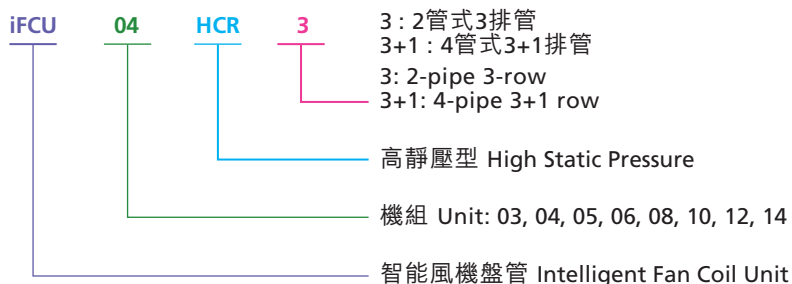
iFCU™ V3.6

三速控制板接線圖  
3-Speed Control Board Wiring Diagram



iFCU™ V3.3

## 型號表 Model Selection



## 技術支援 Technical Support

- 安裝指導  
iFCU™ Installation Guidance
- 持續監察運行表現  
Continuous Performance Monitoring
- 專業團隊提供售後服務  
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