



吊掛隱藏式室內送風機

Ceiling Concealed Fan Coil Unit



揚帆興業股份有限公司

公司：桃園縣楊梅市幼獅工業區
高獅路935號
電話：(03)496-7111
傳真：(03)496-7112
電子信箱：yfcl@ms37.hinet.net

YANGFAN DEVELOPMENT CO., LTD.

NO. 935, Gaoshi Rd., Hangmei City
Taoyuan Country 32668, TAIWAN, (R.O.C.)
TEL:886-3-496-7111
FAX:886-3-496-7112
E-mail: yfcl@ms37.hinet.net
<http://www.yangfan.com.tw>



榮獲國際品質認證

冰水式送風機標準規範

Chiller Water type Standard Specifications

60Hz

型號 MODEL	單位 UNIT	YFCR									
		300 S 300 H	400 S 400 H	500 S 500 H	600 S 600 H	800 S 800 H	1000 S 1000 H	1200 S 1200 H	1400 S 1400 H	1600 S 1600 H	
冷房能力	Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800
暖房能力	Heating Capacity	Kcal/h	4,200	5,900	7,100	8,460	11,040	13,200	14,900	18,000	21,900
風量 (高速)	Air volume	m ³ /h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760
風扇	Fan		前曲葉片離心雙吸口式 Double inlet Centrifugal Forward-curved Fan								
型式	Type										
數量	Number	pcs	1	1	2	2	2	3	4	4	4
馬達	Motor		1 PH - 110V - 60Hz / 1 PH - 220V - 60Hz								
電源	Power source		E 級絕緣電容器起動式三速馬達								
型式	Type		E Class Insulation 3 Speed Permanent Split-capacitor Motor								
數量	Number	pcs	1	1	1	1	1	2	2	2	2
普通型	Standard Type										
機外靜壓	Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2	2
輸入功率	Power Input	W	45	55	60	67	83	128	134	166	166
運轉電流(110V)	Running Current	A	0.41	0.51	0.54	0.60	0.79	1.20	1.25	1.58	1.58
運轉電流(220V)	Running Current	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79	0.79
高靜壓型	High Static Type										
機外靜壓	Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4	4
輸入功率	Power Input	W	65	85	92	100	140	185	200	270	360
運轉電流(110V)	Running Current	A	0.62	0.82	0.88	0.96	1.34	1.67	1.92	2.58	3.28
運轉電流(220V)	Running Current	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29	1.64
盤管	Coil		鋁質多縫鱗片，經機械脹管與紫銅管緊密結合								
型式	Type		Slit aluminum Fins mechanically bonded to copper tubes								
操作壓力	Operating Pers.	Kg/cm ²	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
水流量	Water Flow	l/min	8.5	11.5	15	17.8	23.8	28	31.2	37.6	50.1
水壓降	Head Loss	mAq	0.9	1.5	2.4	3.1	5.0	2.6	3.1	3.9	5.2
進水管管徑	Water Conn.	in	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1
外型尺寸	Dimension										
	A	mm	900	1090	1090	1290	1520	1740	1950	2140	2140
	B	mm	520	710	770	910	1140	1360	1570	1760	1760
	C	mm	480	670	730	870	1100	1320	1530	1720	1720
	N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4	3~4
產品淨重	Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0	60.0

附註：以上能量在下列室內狀況下求得：

冷房：進風乾球溫度 27°C，濕球溫度 19.5°C

冰水進水溫度 7°C，出水溫度升高 5°C

暖房：進風乾球溫度 21°C，熱水進水溫度 60°C

Note : the capacity is based on the following conditions

Cooling—Entering air temp. 27°C DB, 19.5°C WB.

Entering chilled water temp 7°C leaving temp rise 5°C

Heating—Entering air temp 21°C DB.

Entering hot water temp 60°C

冰水式送風機標準規範

Chiller Water type Standard Specifications

50Hz

型號 MODEL	單位 UNIT	YFCR									
		300 S 300 H	400 S 400 H	500 S 500 H	600 S 600 H	800 S 800 H	1000 S 1000 H	1200 S 1200 H	1400 S 1400 H	1600 S 1600 H	
冷房能力	Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800
暖房能力	Heating Capacity	Kcal/h	4,200	5,900	7,100	8,460	11,040	13,200	14,900	18,000	21,900
風量 (高速)	Air volume	m ³ /h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760
風扇	Fan		前曲葉片離心雙吸口式 Double inlet Centrifugal Forward-curved Fan								
型式	Type										
數量	Number	pcs	1	1	2	2	2	3	4	4	4
馬達	Motor		1 PH - 220V - 50Hz								
電源	Power source		E 級絕緣電容器起動式三速馬達								
型式	Type		E Class Insulation 3 Speed Permanent Split-capacitor Motor								
數量	Number	pcs	1	1	1	1	1	2	2	2	2
普通型	Standard Type										
機外靜壓	Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2	2
輸入功率	Power Input	W	45	55	60	67	83	128	134	166	166
運轉電流	Running Current	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79	0.79
高靜壓型	High Static Type										
機外靜壓	Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4	4
輸入功率	Power Input	W	65	85	92	100	140	185	200	270	360
運轉電流	Running Current	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29	1.64
盤管	Coil		鋁質多縫鱗片，經機械脹管與紫銅管緊密結合								
型式	Type		Slit aluminum Fins mechanically bonded to copper tubes								
操作壓力	Operating Pers.	Kg/cm ²	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
水流量	Water Flow	l/min	8.5	11.5	15	17.8	23.8	28	31.2	37.6	50.1
水壓降	Head Loss	mAq	0.9	1.5	2.4	3.1	5.0	2.6	3.1	3.9	5.2
進水管徑	Water Conn.	in	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1
外型尺寸	Dimension										
	A	mm	900	1090	1090	1290	1520	1740	1950	2140	2140
	B	mm	520	710	770	910	1140	1360	1570	1760	1760
	C	mm	480	670	730	870	1100	1320	1530	1720	1720
	N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4	3~4
產品淨重	Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0	60.0

附註：以上能量在下列室內狀況下求得：

冷房：進風乾球溫度 27°C，濕球溫度 19.5°C

冰水進水溫度 7°C，出水溫度升高 5°C

暖房：進風乾球溫度 21°C，熱水進水溫度 60°C

Note : the capacity is based on the following conditions

Cooling—Entering air temp. 27°C DB, 19.5°C WB .

Entering chilled water temp 7°C leaving temp rise 5°C

Heating—Entering air temp 21°C DB.

Entering hot water temp 60°C

直膨式送風機標準規範

Direct Expansion Standard Specifications

60Hz

型號 MODEL	單位 UNIT	YFCR - X									
		300 S	400 S	500 S	600 S	800 S	1000 S	1200 S	1400 S	1600 S	
		300 H	400 H	500 H	600 H	800 H	1000 H	1200 H	1400 H	1600 H	
冷房能力	Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800
風量 (高速)	Air volume	m ³ /h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760
風扇	Fan		前曲葉片離心雙吸口式 Double inlet Centrifugal Forward-curved Fan								
型式	Type		前曲葉片離心雙吸口式 Double inlet Centrifugal Forward-curved Fan								
數量	Number	pcs	1	1	2	2	2	3	4	4	4
馬達	Motor		1 PH - 220V - 60Hz								
電源	Power source		E 級絕緣電容器起動式三速馬達								
型式	Type		E Class Insulation 3 Speed Permanent Split-capacitor Motor								
數量	Number	pcs	1	1	1	1	1	2	2	2	2
普通型	Standard Type										
機外靜壓	Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2	2
輸入功率	Power Input	W	45	55	60	67	83	128	134	166	166
運轉電流	Running Current	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79	0.79
高靜壓型	High Static Type										
機外靜壓	Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4	4
輸入功率	Power Input	W	65	85	92	100	140	185	200	270	360
運轉電流	Running Current	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29	1.64
盤管	Coil		鋁質多縫鰭片，經機械脹管與紫銅管緊密結合，直接膨脹式								
型式	Type		Slit aluminum Fins mechanically bonded to copper tubes with direct-expansion								
操作壓力	Operating Pers.	Kg/cm ²	20								
冷媒	Refrigerant		R-410A								
液體管管徑	Liquid Line	in	1/4	1/4	1/4	1/4	1/4	3/8	3/8	1/2	1/2
迴流管管徑	Suction Line	in	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	3/4
外型尺寸	Dimension										
	A	mm	900	1090	1090	1290	1520	1740	1950	2140	2140
	B	mm	520	710	770	910	1140	1360	1570	1760	1760
	C	mm	480	670	730	870	1100	1320	1530	1720	1720
	N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4	3~4
產品淨重	Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0	60.0

附註：以上能量在下列室內狀況下求得：

冷房：進風乾球溫度 27°C，濕球溫度 19.5°C

冷媒蒸發溫度 7°C

Note : the capacity is based on the following conditions

Cooling—Entering air temp. 27°C DB, 19.5°C WB.

Entering refrigerant evaporator temp 7°C

直膨式送風機標準規範

50Hz

Direct Expansion Standard Specifications

型號 MODEL	單位 UNIT	YFCR - X										
		300 S 300 H	400 S 400 H	500 S 500 H	600 S 600 H	800 S 800 H	1000 S 1000 H	1200 S 1200 H	1400 S 1400 H	1600 S 1600 H		
冷房能力 Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800		
風量 (高速) Air volume	m³/h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760		
風扇 Fan	Type	前曲葉片離心雙吸口式 Double inlet Centrifugal Forward-curved Fan										
數量 Number	pcs	1	1	2	2	2	3	4	4	4		
馬達 Motor	Power source	1 PH - 220V - 50Hz										
型式 Type	Type	E 級絕緣電容器起動式三速馬達 E Class Insulation 3 Speed Permanent Split-capacitor Motor										
數量 Number	pcs	1	1	1	1	1	2	2	2	2		
普通型 Standard Type	Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2		
機外靜壓 Ex. Static Pres.	Power Input	W	45	55	60	67	83	128	134	166		
輸入功率 Power Input	Running Current	A	0.41	0.51	0.54	0.60	0.79	1.20	1.25	1.58		
運轉電流(110V) Running Current	Running Current	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79		
運轉電流(220V) Running Current	High Static Type											
高靜壓型 High Static Type	Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4		
機外靜壓 Ex. Static Pres.	Power Input	W	65	85	92	100	140	185	200	270		
輸入功率 Power Input	Running Current	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29		
運轉電流 Running Current	Coil											
盤管 Coil	Type	鋁質多縫鰭片，經機械脹管與紫銅管緊密結合，直接膨脹式 Slit aluminum Fins mechanically bonded to copper tubes with direct-expansion										
型式 Type	Operating Pers.	Kg/cm²	20									
操作壓力 Operating Pers.	Refrigerant	R-410A										
冷媒 Refrigerant	Liquid Line	in	1/4	1/4	1/4	1/4	1/4	3/8	3/8	1/2		
液體管管徑 Liquid Line	Suction Line	in	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4		
迴流管管徑 Suction Line	Dimension											
外型尺寸 Dimension	A	mm	900	1090	1090	1290	1520	1740	1950	2140		
	B	mm	520	710	770	910	1140	1360	1570	1760		
	C	mm	480	670	730	870	1100	1320	1530	1720		
	N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4		
產品淨重 Net Weight	Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0		

附註：以上能量在下列室內狀況下求得：

冷房：進風乾球溫度 27°C，濕球溫度 19.5°C

冷媒蒸發溫度 7°C

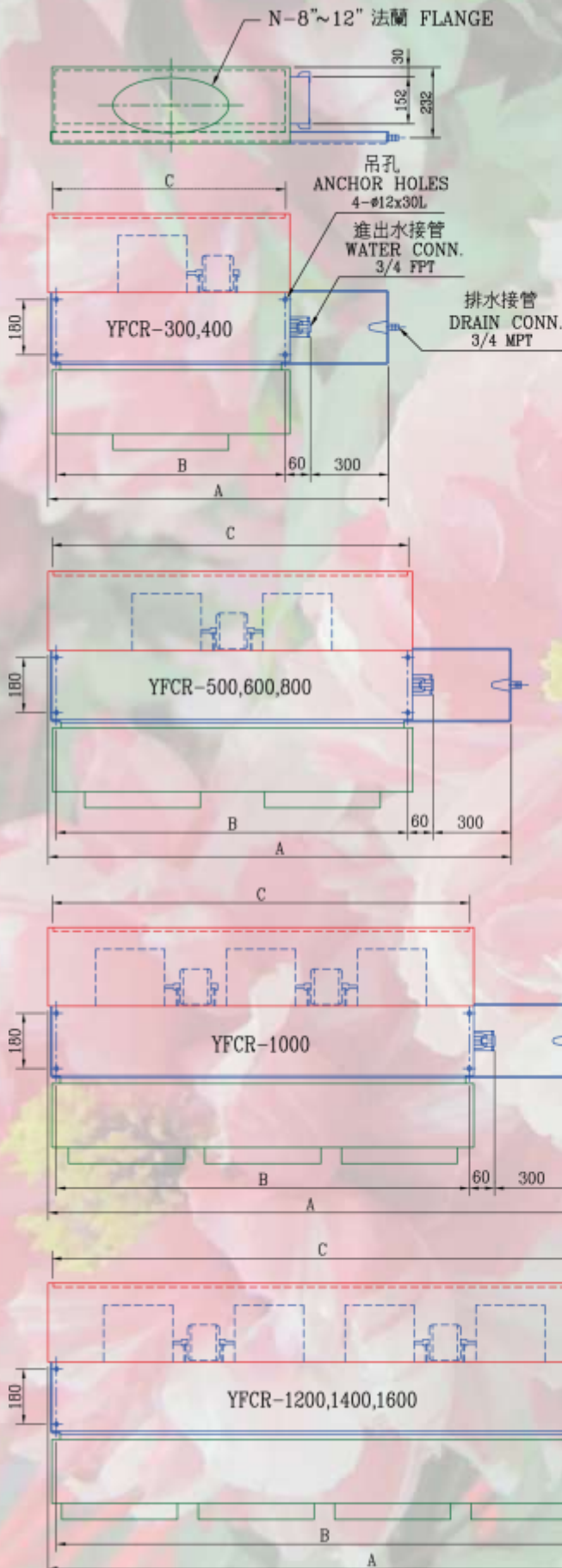
Note : the capacity is based on the following conditions

Cooling—Entering air temp. 27°C DB, 19.5°C WB.

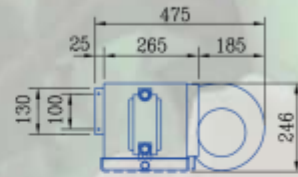
Entering refrigerant evaporator temp 7°C

吊掛隱藏式室內送風機外形尺寸圖

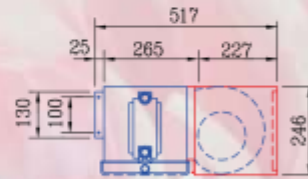
FAN COIL UNITS (Celiling Concealed Type) Dimension



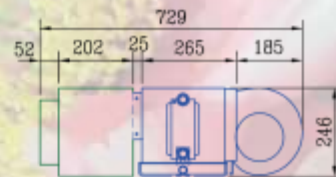
一般型側面尺寸
SIDE DIMENSION



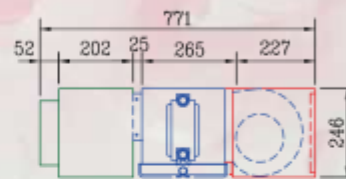
附回風箱側面尺寸
With Return-Air Box



附集風箱側面尺寸
With Plenum Box



附集風箱+回風箱側面尺寸
With Plenum & Return-Air Box



註：1. 紅色為附回風箱
2. 綠色為附集風箱

Note : 1. RED : With Return-Air Box
2. GREEN : With Plenum Box

吊掛隱藏式室內送風機結構與特性

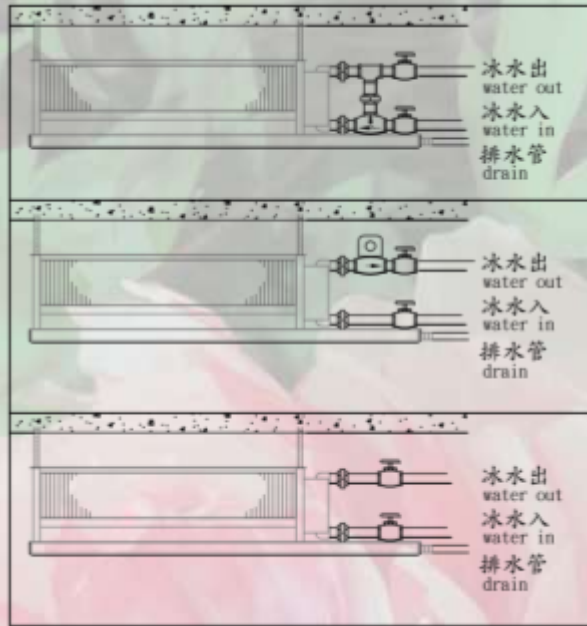
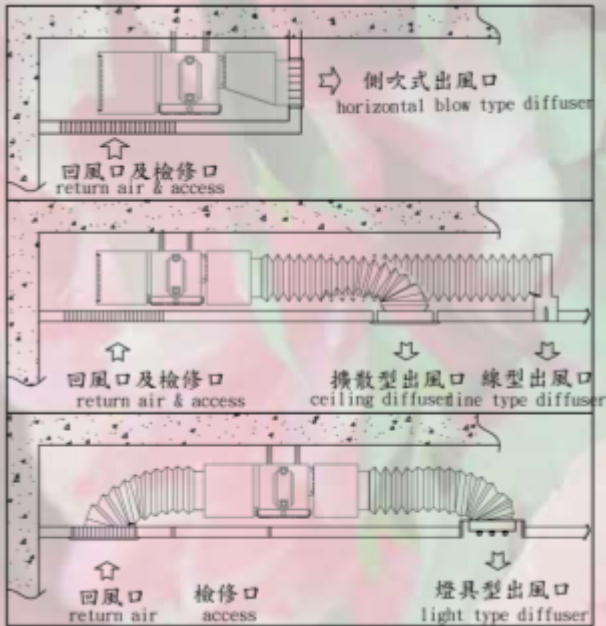
1. 本系列機種分為冰水式及直接膨脹式兩種。冰水式由冰水機送來冰水達到製冷的功能，由熱回收器送來熱水達到製熱的功能。直接膨脹式由冷凝機組送來冷媒達到製冷的功能。
2. 揚帆牌室內送風機採用鍍鋅鋼板機殼，配置前曲葉片式風車，鋁質多縫型鰭片盤管及PE防火保溫之滴水盤等，使整個送風機外形美觀，結構精緻。本產品設計耐用年限為十年，在安裝精確，維護良好，操作正常情況下，可使用十年以上而不致故障。
3. 風車馬達為 E 級絕緣電容器起動感應式馬達，軸心均經調質與硬鉻處理，使軸心永久不變形、不生銹、又耐用。滾珠軸承，能自動潤滑，轉動時無噪音、又省電。
4. 盤管採用高純度無縫紫銅管與鋁質多縫型散熱鰭片，經機械脹管而成，鰭片與銅管間接觸絕對緊密，能發揮最佳換熱效果。
5. 為減少水頭損失集水頭採用黃銅鍛造而成，水流分佈均勻順暢。出水端設旋鈕式排氣閥，能輕易排出系統內空氣。
6. 在室內適當位置安裝風速及溫度控制開關與本送風機連接，以控制所需風量及溫度。
7. 為客戶安裝方便，特推出吊掛隱藏式室內送風機附屬產品，歡迎選購使用。
 - 吊掛隱藏式室內送風機(附集風箱)
 - 吊掛隱藏式室內送風機(附回風箱)
 - 吊掛隱藏式室內送風機(附集風箱+回風箱)

Fan Coil Units (Ceiling Concealed Type) Construction and General Features

1. This series Fan Coil Unit have chiller water type & direct expansion type. Chiller water type use chiller units' chiller water make cooling; also use heat recovery water make heating. Direct expansion type use condensing units' refrigerant make cooling.
2. YANGFAN fan-coil units are fabricated of rigid galvanized steel casing, complete with quiet metal DIDW centrifugal fan, slit aluminum finned coil, and steel galvanized drain pan with 5mm high density self fire-extinguishing insulation, providing the units a compact appearance and a minimum 10-year life time as designed. Under correct installation, well maintenance and normal operation conditions, the units even work in trouble-free for more years than the designed life.
3. All units are using E class insulation 3-speed permanent split capacitor motor with its shaft normalized and chrome plating treated, no deflection, corrosion proof and durable. Ball bearings provide low-noise and save energy.
4. The coils are using slit aluminum fins mechanically and tightly bonded to seamless copper tubes, providing high heat transfer.
5. For minimizing the pressure drop, all units adopt the brass water header to distribute the water fluently and evenly. An air vent on the header makes air in the system easily released.
6. Just loosen the screws; exchange the positions of fan deck and air outlet flange, the piping direction has been immediately reversed. This special design for all units' means less time spent per unit during installation for arrangements with left-hand or right-hand connections.
7. For customers to install convenient. We are to present the ceiling concealed type fan coil units (YFCR) append to product . Thank you for choose our products.
 - Fan coil units (Ceiling Concealed Type with Plenum)
 - Fan coil units (Ceiling Concealed Type with Return-Air Box)
 - Fan coil units (Ceiling Concealed Type with Plenum & Return-Air Box)

風管安裝圖例 Air Duct Installation

水管安裝圖例 Water Piping Installation



接線圖 Electrical Wiring Diagram

