

揚帆

YANGFAN

新鮮空氣調節箱

Primary Air Handler



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榮獲國際品質認證

新鮮空氣調節箱的用途與功能

■ 冷氣不能替代新鮮空氣

社會不斷進步，國民生活品質隨著提昇，冷(暖)氣機，只是改善生活環境裏的溫度，好而標準的空調，還得要求溫度、濕度及空氣品質。

■ 新鮮空氣的重要

台灣地區屬亞熱帶的海洋性氣候，空氣中含濕量特別高，因氣候變化大，對過熱、過冷、過溼等都會造成我們身體不適，甚至影響身體健康。加以空氣污染日益嚴重，在密閉式空調空間裏，因人體散發氣味、煙味等使室內的空氣變質，如缺乏新鮮空氣補充，將使人們工作效率減低，情緒暴躁，甚至昏昏欲睡，更嚴重者導窒息休克。

■ 改善空氣品質，最有效方法

1. 產生足夠的空氣對流，以避免污穢的空氣停滯在室內。
2. 提供足夠的新鮮空氣，來稀釋室內產生的污穢空氣。
3. 引進溫度較低的外氣，以帶走室內的部份熱量，降低室內溫度。

■ 保持環境清潔

常開新鮮空氣調節箱，除供應空氣清新外，能保持室內空氣成正壓狀態，以減少蚊蠅及灰塵侵入，確保生活環境潔淨。

■ 節約能源功能

當春秋季節或夜間室外空氣溫度達到舒適溫度時，可將空調主機停止運轉，只要利用本新鮮空氣調節箱，吸入外界適當而新鮮的空氣，加以過濾除塵後送到室內，可減少能源消耗。

■ 室內空氣品質已列管理

100年11月23日總統明令頒布之「室內空氣品質管理法」，對於十一項公私場所依照公眾聚集量、進出量、室內空氣污染物危害程度等都公告列入管制範圍。

■ 改善室內空氣品質最佳選項

新鮮空氣調節箱專供引進外界新鮮空氣，冷卻、除濕、濾塵後送至各空調空間是改善您室內空氣品質，增進工作效率最佳的選項。

本公司之新鮮空氣調節箱，機種最多，能適合各種場所使用。願所有揚帆冷氣公司的愛用者，身體健康，生活美滿幸福。

THE USAGE AND FUNCTION OF PRIMARY AIR HANDLER

■ COOLING AIR NOT MEANS FRESH AIR

The stabilization and continuous progress of society has promoted quite a lots of people's living quality accordingly. The cooling (heating) air condition equipments are very popular in use in the daily life nowadays. The usual cooling (heating) air condition equipment improves only the temperature conditions of the living environment. Practically a good and typical air conditioning system requires not only for the temperature conditioning, but for the humidity and air quality also.

■ THE IMPORTANCE OF FRESH AIR

Taiwan is located in sub-tropical region and marine climate. The nature air contains too much humidity. Owing to the large variation of weather, too much over-heat, over-cooling or heavy humidity will cause one's body uncomfortable, even influence to one's healthy. Moreover, the air pollution is getting more serious day after day. In a closed air-cooling room, the bad odor emitted from human body or from smoking will cause the air quality worse and worse. Supposing the fresh air is not supplied, people's working efficiency will go down, emotion will be irritable and shock may occur.

■ MOST EFFICIENCY WAY TO IMPROVE THE QUALITY OF AIR

1. Generate sufficient air convection, in order to avoid contamination of air stagnation in the room.
2. Provide enough fresh air to dilute indoor air contamination generated.
3. The introduction of lower temperature outside air to take away part of heat, reduce the indoor temperature.

■ KEEP THE ENVIRONMENT CLEAN

Always switch on the primary air handler to keep air ventilation smooth, air quality fresh and maintain the room air in a positive pressure status to minimize the mosquito and flies or dust break in for keeping the environment clean.

■ POWER SOURCE SAVING

During the night or in the spring and autumn, when the outdoor temperature reaches comfortable level, you may stop the main machine in the air conditioning system and just use the primary air handler to take in the outdoor fresh air, and after passing the dust filter send to indoors to minimize the consumption of power source.

■ QUALITY OF INDOOR AIR

"The management of quality of indoor air" was issued on Nov. 23rd, 2011. The 11 item such as the quantity of people gather, pass in and out, the damage level of pollution is listed in the control range.

■ CONCLUSION

For the demands of customers in various field, we are sincerely recommend our primary air handler to handling the outdoor fresh air through cooling, dehumidifying, and filtering, then sending into individual air conditioning room for promoting the room air quality and increasing People's working efficiency.

Our primary air handler has complete models applicable to all occasions. May all of our products users are in good health and enjoy a happy and fortunate life.

標準規範 Standard Specifications

		YPAH							
型號 MODEL	單位 UNIT	204	206	208	302	304	306	308	
冷房能力	Cooling Capacity	Kcal/h	14,300	14,800	15,500	11,500	22,800	27,000	27,400
風扇	Fan								
型式	Type	前曲葉片離心雙吸口式 Double inlet Centrifugal Forward-curved Fan							
風量	Air volume	m ³ /h	1,255	960	910	2,610	2,250	2,000	1,710
最大風量	Max. air volume	m ³ /h	1,300	1,000	950	2,900	2,500	2,100	1,800
數量	Number	pcs	1	1	1	1	1	1	1
機外靜壓	ESP	mmAq	5	5	5	5	5	5	5
馬達	Motor								
電源	Power source	1PH-220-60H / 3 PH - 220V - 60Hz							
型式	Type	外轉子馬達 External rotor Motor							
輸入功率	Power input	W	270	270	270	355	355	355	355
數量	Number	pcs	1	1	1	1	1	1	1
盤管	Coil								
型式	Type	鋁質多縫鰭片，經機械脹管與紫銅管緊密結合 Slit aluminum Fins mechanically bonded to copper tubes							
排數	Row		4	6	8	2	4	6	8
水流量	Water Flow	l/min	47.7	49.3	51.7	38.3	76.0	90.0	91.3
水壓降	Cooling Capacity	mAq	1.2	1.0	2.1	0.43	2.2	1.8	2.0
操作壓力	Operating Pres.	Kg/cm ²	17.5	17.5	17.5	17.5	17.5	17.5	17.5
進水管徑	Water Conn.	in	1B	1B	1-1/4B	1B	1-1/4B	1-1/2B	1-1/2B
外形尺寸	Dimension								
A	mm	850	850	850	1030	1030	1030	1030	
B	mm	717	783	849	717	717	783	849	
C	mm	360	360	360	530	530	530	530	
D	mm	590	590	590	770	770	770	770	
E	mm	493	526	559	493	493	526	559	
濾網	Air Filter (Option)								
型式	Type	可清洗式尼龍濾網 Washable Nylon Filter							
產品淨重	Net Weight	Kg	70	74	78	75	78	82	86

附註：以上冷房能力在下列室內狀況下求得：

冷房：進風乾球溫度 32°C，濕球溫度 27°C

冰水進水溫度 7°C，出水溫度升高 5°C

警告：安裝時應避開高溫或惡臭等廢氣場所。

Note : the capacity is based on the following conditions

Cooling - Entering air temp. 32°C DB, 27°C WB.

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

Warning - Select installation site avoid to install at high temperature or stinking gas places.



標準規範 Standard Specifications

型號 MODEL	單位 UNIT	YPAH								
		402	404	406	408	502	504	506	508	
冷房能力 Cooling Capacity	Kcal/h	18,300	32,500	41,100	41,200	22,200	39,500	48,900	50,400	
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									
風量 Air volume	m ³ /h	3,780	3,240	3,000	2,570	4,000	3,870	3,520	3,040	
最大風量 Max. air volume	m ³ /h	4,200	3,600	3,100	2,700	5,000	4,300	3,700	3,200	
數量 Number	pcs	2	2	2	2	2	2	2	2	
機外靜壓 ESP	mmAq	5	5	5	5	5	5	5	5	
馬達 Motor	感應式馬達 External rotor Motor									
電源 Power source	1PH-220-60H / 3 PH - 220V - 60Hz / 3 PH -380V - 60Hz									
型式 Type	感應式馬達 External rotor Motor									
輸入功率 Power input	W	480	480	480	480	600	600	600	600	
數量 Number	pcs	1	1	1	1	1	1	1	1	
盤管 Coil	鋁質多縫鰭片，經機械脹管與紫銅管緊密結合 Slit aluminum Fins mechanically bonded to copper tubes									
型式 Type	鋁質多縫鰭片，經機械脹管與紫銅管緊密結合 Slit aluminum Fins mechanically bonded to copper tubes									
排數 Row		2	4	6	8	2	4	6	8	
水流量 Water Flow	l/min	61.0	108.3	137.0	137.3	74.0	131.7	163.0	168.0	
水壓降 Cooling Capacity	mAq	0.6	1.8	4.4	1.9	0.9	2.7	0.7	2.9	
操作壓力 Operating Pres.	Kg/cm ²	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	
進水管徑 Water Conn.	in	1-1/4B	1-1/2B	1-1/2B	1-1/2B	1-1/4B	1-1/2B	1-1/2B	1-1/2B	
外形尺寸 Dimension										
A	mm	1370	1370	1370	1370	1550	1550	1550	1550	
B	mm	717	717	783	849	717	717	783	849	
C	mm	790	790	790	790	892	892	892	892	
D	mm	1110	1110	1110	1110	1290	1290	1290	1290	
E	mm	493	493	526	559	493	493	526	559	
濾網 Air Filter (Option)	可清洗式尼龍濾網 Washable Nylon Filter									
型式 Type	可清洗式尼龍濾網 Washable Nylon Filter									
產品淨重 Net Weight	Kg	100	105	109	113	110	116	125	130	

室內空氣品質管理法
請參閱官方網站：

<http://iaq.epa.gov.tw/indoorair/>

