

卡固電設
KAKU Electric Equipment



KAKU

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全新理念
通風過濾網系列
VENTILATOR FILTER UNIT

KAKU   RoHS CE REACH

新型通風過濾網型號說明 DESCRIPTION OF VENTILATOR FILTER UNIT

Raku



材料認證

Material & Certification description

- 1. (材質: ABS; 適用溫度範圍: -10°C ~ +85°C)**
 適用於: A系列前板&底蓋, B系列底蓋, C1系列前板&通風罩, C2系列通風罩
 認證: UL94V-0, RoHS

(Material: ABS; scope of temperature: -10°C ~ +85°C)
 Apply to: A type's cover & bottom, B type's bottom, C1 type's cover & air vent, C2 type's air vent
 Certification: UL94V-0, RoHS
- 2. (材質: 高強度PC/UV; 適用溫度範圍: -20°C ~ +120°C)**
 適用於: B系列防雨罩&面板, C2系列防雨罩&面板
 認證: UL94V-0, RoHS, REACH

(Material: weather resistance PC Anti UV; scope of temperature: -20°C ~ +120°C)
 Apply to: B type's rain hood & cover, C2 type's rain hood & cover
 Certification: UL94V-0, RoHS, REACH
- 3. (材質: ADC12鋁合金材質; 適用溫度範圍: -50°C ~ +600°C)**
 適用於: FU9803&FU9804鋁合金覆材質之特殊品, 蜂巢塗面噴理處理; 可耐極限溫度, EMC抗屏
 蔽利產品! 認證: 50°C, EMC, REACH

(Material: ADC12 aluminium alloy material; scope of temperature: -50°C ~ +600°C)
 Apply to: custom type for model FU9803&FU9804, surface spraying and coating processing treatment
 which can be used under ultimate temperature plus EMC function.
 Certification: -50°C, EMC, REACH
- 4. (材質: 鐵鎳合金發泡材質; 適用溫度範圍: 50°C ~ +1100°C)**
 適用於: 特殊環境要求下的過濾材質, 透氣且質量超輕, 具備隔音及電子波屏蔽功能, 便于再次加工且環保,
 均勻的三維立體網狀結構有極好的過濾作用, 耐高溫耐酸腐蝕, 是極佳的耐高溫過濾材料。

(Material: Fe-Ni alloy foaming material; scope of temperature: 50°C ~ +1100°C)
 Filter media for specific environment, which is air permeable and very light, has good acoustic absorption,
 insulation, and electronic wave shielding. The material is easy to process again and very environmental.
 The uniform 3D mesh structure has excellent filtration. The material is high temperature resistance, acid
 and alkali-resistance, it is a very good high temperature resistance filter material.

以上資料均採用國際標準特殊電氣性能檢驗。
 Any above material can be chosen according to customers' special needs



全新風機及通風罩, 通過IP54認證, 通過UL94V-0, RoHS, REACH, EMC, LVD, CE等國際標準, 品質可靠, 價格公道, 服務周到。

New designed ventilator fan units, made according to the international standard which apply to CE, UL94V-0, RoHS, REACH, EMC, LVD, CE, IP55 features. Our good quality always guarantee your satisfaction.

材質選用 Materials

- 多種優質材料 (ABS 耐成型 PC 鋁合金 鐵鎳合金 塗層) 的應用, 添加了自然及抗紫外線特性, 濾網材質選用優質巨龍網合成樹脂, 并可選配鐵鎳合金發泡材質, 除塵濾高達AF180% (AFI-JAPAN AIRFILTER INSTITUTE), 可反復拆洗使用。
- Different good quality material made of non-flammable ABS, weather resistance PC with UV-resistant plus imported Nylon fiber synthetic make sue AFI up to 80%.

設計精進 Special design

- 外型超薄型設計, 多梯極扇機配選擇, 全新設計理念, 密封條一體發泡成型達到隔空氣流量及防塵防水效果, 全金屬系列起運鐵鎳合金發泡材質濾網, 適用於各種極限環境增加EMC電子屏蔽功能, 同時採用硅膠一體成型密封條, 提升耐溫等級。
- New designed filter can match multiple fan specification. Integrated forming processing sealing strip design increase the sealing effect. Metal material filter apply to ultimate environment with EMC function.

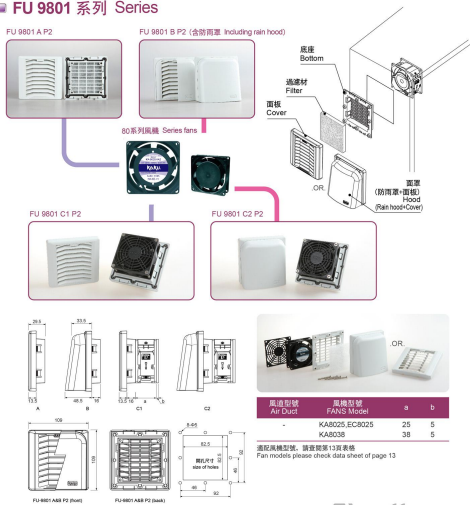
配置靈活 Flexible assemble

- 全新設計結構及安裝系統, 加入風扇多種規格與風量組合, 客戶可根據風量需求搭配不同型號風機使用, 使得通風效率獲得提升。
- New designed filter continue using classic design for embedded nut on bottom, with air vent and different sizes of rain hood. Customer can choose different fans with filter according to air flow to upgrade the ventilation efficiency.

使用效能 Efficiency

- 全新設計採用超靜音EC風機, 有效降低噪聲及耗電零件之有效散熱, 延長使用壽命, 降低故障率。
- New filter unit is equipped with EC high efficiency fan which can assure the heat radiation of controllers and precision components; increase its life and reduce the failure rate.

■ FU 9801 系列 Series

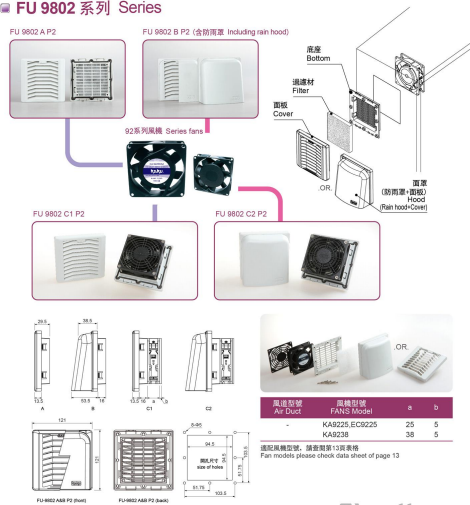


參數表 Specification

型號 Model	包裝數量 Package Quantity	底座 Rain hood	蓋板 Cover	過濾材 Filter	風扇 Fan	材料 Material	溫度 Temperature	保護等級 Protection Grade
FU 9801 A P2	20 PC/Box	ABS	ABS	-	Nylon	PU	-10~55°C	IP44
FU 9801 B P2	10 PC/Box	PC+UV	PC+UV	ABS	-	Nylon	PU	-10~55°C
FU 9801 C1 P2	1 PC/Box	ABS	ABS	-	Nylon	PU	-10~55°C	IP44
FU 9801 C2 P2	1 PC/Box	PC+UV	PC+UV	ABS	-	Nylon	PU	-10~55°C

註: C1&C2 風扇與底座直接方式, C1&C2, fan and filter connected directly

■ FU 9802 系列 Series



參數表 Specification

型號 Model	包裝數量 Package Quantity	底座 Rain hood	蓋板 Cover	過濾材 Filter	風扇 Fan	材料 Material	溫度 Temperature	保護等級 Protection Grade
FU 9802 A P2	20 PC/Box	ABS	ABS	-	Nylon	PU	-10~55°C	IP44
FU 9802 B P2	10 PC/Box	PC+UV	PC+UV	ABS	-	Nylon	PU	-10~55°C
FU 9802 C1 P2	1 PC/Box	ABS	ABS	-	Nylon	PU	-10~55°C	IP44
FU 9802 C2 P2	1 PC/Box	PC+UV	PC+UV	ABS	-	Nylon	PU	-10~55°C

註: C1&C2 風扇與底座直接方式, C1&C2, fan and filter connected directly

■ FU 9803 系列 Series

FU 9803 A P2 FU 9803 B P2 (含物雨罩 Including rain hood)

底座 Bottom
濾網 Filter
蓋板 Cover
物雨罩 (防雨罩) Rain hood

120 系列風扇 Series fans
FU 9803 C1 P2 FU 9803 C2 P2

風扇型號 Air Duct 風扇型號 FANS Model a b

-	KA1225, EC1225	25	9
-	KA1238	38	9
-	EC1238, EC12038	38	9

適配風扇型號, 請查閱第 13 頁表格
Fan models please check data sheet of page 13

參數表 Specification

型號 Model	包裝數 Package quantity	材質 Material	耐受溫度 Temperature tolerance	保護等級 Protection Grade
FU 9803 A P2	20 PC/Box	ABS, ABS	-10~55°C	IP44
FU 9803 B P2	10 PC/Box	PC+UV, PC+UV, ABS	-10~55°C	IP55
FU 9803 C1 P2	1 PC/Box	ABS, ABS	-10~55°C	IP44
FU 9803 C2 P2	1 PC/Box	PC+UV, PC+UV, ABS	-10~55°C	IP55

注: C1/C2 風扇與風扇網直接方式, C1/C2, fan and filters connected directly

■ FU 9804 系列 Series

FU 9804 A P2 FU 9804 B P2 (含物雨罩 Including rain hood)

底座 Bottom
濾網 Filter
蓋板 Cover
物雨罩 (防雨罩) Rain hood

120 172 系列風扇 Series fans
FU 9804 系列風道 Series air duct

FU 9804 C1 P2 FU 9804 C2 P2

風道型號 Air Duct 風扇型號 FANS Model a b

P4-120	KA1225, EC1225	25	9
	KA1238, EC1238	38	9
P4-172	EC17023	38	10
	KA, EC17235-Serier	55	10
	KA, EC172-Serier	51	10

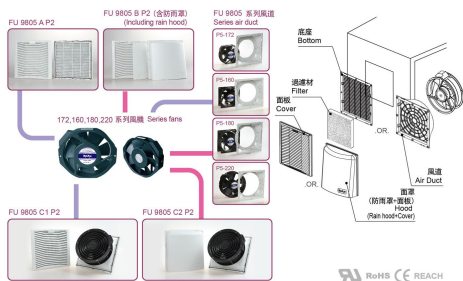
適配風扇型號, 請查閱第 13 頁表格
Fan models please check data sheet of page 13

參數表 Specification

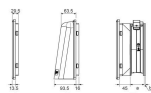
型號 Model	包裝數 Package quantity	材質 Material	耐受溫度 Temperature tolerance	保護等級 Protection Grade
FU 9804 A P2	20 PC/Box	ABS, ABS	-10~55°C	IP44
FU 9804 B P2	10 PC/Box	PC+UV, PC+UV, ABS	-10~55°C	IP55
FU 9804 C1 P2	1 PC/Box	ABS, ABS	-10~55°C	IP44
FU 9804 C2 P2	1 PC/Box	PC+UV, PC+UV, ABS	-10~55°C	IP55

注: C1/C2 風扇與風扇網直接方式, C1/C2, fan and filters connected directly

■ FU 9805 系列 Series



RoHS REACH



風機型號 Air Duct	風機型號 FANS Model	a	b
PS-172	EC17022	38	10
PS-180	KA,EC1725-Series KA,EC172-Series	52	10
PS-190	KA1906	51	10
PS-190	KA1906,EC1806	60	10
PS-220	KA2206,EC2206	62	11
PS-220	KA2206,EC2208	60	13
PS-220	KA2206,EC2208	80	13

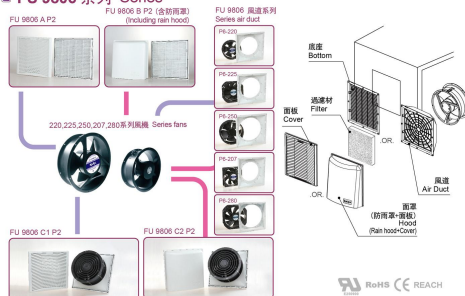
風扇機殼型號、請參閱第13頁表格
Fan models please check data sheet of page 13

參數表 Specification

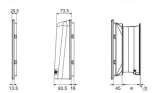
型號 Model	包裝數 Package Quantity	材料 Material	耐溫溫度 Temperature Resistance	保護等級 Protection Grade
FU 9805 A P2	20 P/PC/Box	ABS, ABS, Nylon	-10~55°C	IP44
FU 9805 B P2	10 P/PC/Box	PCH/UV, PCH/UV, ABS	-10~55°C	IP55
FU 9805 C1 P2	1 P/PC/Box	ABS, ABS, ABS, Nylon	-10~55°C	IP44
FU 9805 C2 P2	1 P/PC/Box	PCH/UV, PCH/UV, ABS, ABS, Nylon	-10~55°C	IP55

註: C1/C2為風機與風扇線直接方式, C1/C2, fan and filters connected directly

■ FU 9806 系列 Series



RoHS REACH



風機型號 Air Duct	風機型號 FANS Model	a	b
PS-220	KA2206,EC2206	60	13
PS-220	KA2206,EC2208	80	13
PS-225	EC2258	80	14
PS-230	KA2309,EC2309	89	13
PS-207	KA2072,EC2072	72	9
PS-280	EC2880	60	14

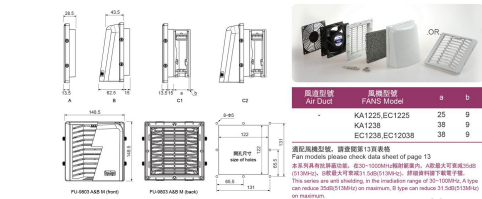
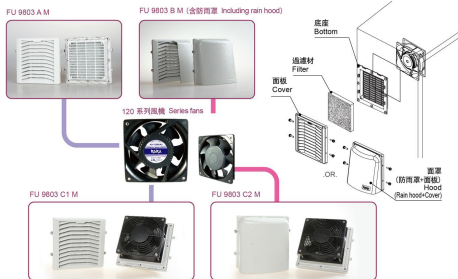
風扇機殼型號、請參閱第13頁表格
Fan models please check data sheet of page 13

參數表 Specification

型號 Model	包裝數 Package Quantity	材料 Material	耐溫溫度 Temperature Resistance	保護等級 Protection Grade
FU 9806 A P2	10 P/PC/Box	PCH/UV, PCH/UV	-10~65°C	IP44
FU 9806 B P2	5 P/PC/Box	PCH/UV, PCH/UV, ABS	-10~55°C	IP55
FU 9806 C1 P2	1 P/PC/Box	ABS, ABS, ABS, Nylon	-10~55°C	IP44
FU 9806 C2 P2	1 P/PC/Box	PCH/UV, PCH/UV, ABS, ABS, Nylon	-10~55°C	IP55

註: C1/C2為風機與風扇線直接方式, C1/C2, fan and filters connected directly

FU 9803 全金屬材質系列 All metal material series

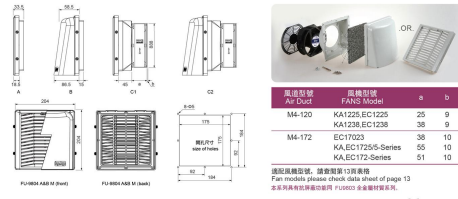


參數表 Specification

型號 Model	包裝數量 Package Quantity	材料 Material	溫度 Temperature	防護等級 Protection Grade
FU 9803 A M	20 PC/Box	ADC12 ADC12	- Fe-Ni SI -50~200°C	IP44
FU 9803 B M	10 PC/Box	ADC12 ADC12 ADC12	- Fe-Ni SI -50~200°C	IP55
FU 9803 C1 M	1 PC/Box	ADC12 ADC12	- Fe-Ni SI -50~200°C	IP44
FU 9803 C2 M	1 PC/Box	ADC12 ADC12	- Fe-Ni SI -50~200°C	IP55

註: C14C2 風扇與面紙直接方式, "鋁合金殼體材料具備標準規格材料, 也可選配尼龍材料製成。
C15, C2, fan and filter connected directly. * Fe-Ni alloy forming material is standard filter media, nylon filter media is optional.

FU 9804 全金屬材質系列 All metal material series



參數表 Specification

型號 Model	包裝數量 Package Quantity	材料 Material	溫度 Temperature	防護等級 Protection Grade
FU 9804 A M	20 PC/Box	ADC12 ADC12	- Fe-Ni SI -50~200°C	IP44
FU 9804 B M	10 PC/Box	ADC12 ADC12 ADC12	- Fe-Ni SI -50~200°C	IP55
FU 9804 C1 M	1 PC/Box	ADC12	- Copper(Sn) ADC12 Fe-Ni SI -50~200°C	IP44
FU 9804 C2 M	1 PC/Box	ADC12	- Copper(Sn) ADC12 Fe-Ni SI -50~200°C	IP55

註: C14C2 風扇與面紙直接方式, "鋁合金殼體材料具備標準規格材料, 也可選配尼龍材料製成。
C18, C2, fan and filter connected directly. * Fe-Ni alloy forming material is standard filter media, nylon filter media is optional.

通風過濾網全新登場
A fresh start on filter family



通風過濾網組與風機規格一覽 Specification of the Ventilator Filter Unit & Cooling Fan

型號 Model	外形尺寸 Size mm	有效風量 Air Flow m³/min	最大風速 Air Speed m/s/mph	除塵率 Dust Resistance %	靜機組網 Pressure Loss Pa/mho	使用數量 Usage Area	重量 Weight g	防護等級 Protection Grade
FU 9801 A P2	109*109*29.5	10.0	2.0	80	2.5~20	Indoor-10-55°C	86	IP44
FU 9801 B P2	109*109*64.5	-	1.5	-	-	outdoor-10-55°C	128	IP55
FU 9801 C1 P2	*109*109*29.5	-	2.0	-	-	Indoor-10-55°C	*86	IP44
FU 9801 C2 P2	*109*109*64.5	-	1.5	-	-	outdoor-10-55°C	*128	IP55
FU 9802 A P2	121*121*29.5	16.0	2.0	80	2.5~20	Indoor-10-55°C	103	IP44
FU 9802 B P2	121*121*69.5	-	1.5	-	-	outdoor-10-55°C	156	IP55
FU 9802 C1 P2	*121*121*29.5	-	2.0	-	-	Indoor-10-55°C	*103	IP44
FU 9802 C2 P2	*121*121*69.5	-	1.5	-	-	outdoor-10-55°C	*156	IP55
FU 9803 A P2	148.5*148.5*29.5	25.0	2.0	80	6.7~20	Indoor-10-55°C	130	IP44
FU 9803 B P2	148.5*148.5*79.5	-	1.5	-	-	outdoor-10-55°C	230	IP55
FU 9803 C1 P2	*148.5*148.5*29.5	-	2.0	-	-	Indoor-10-55°C	*130	IP44
FU 9803 C2 P2	*148.5*148.5*79.5	-	1.5	-	-	outdoor-10-55°C	*230	IP55
FU 9803 A M	148.5*148.5*26.5	25.0	2.0	80	6.7~20	Indoor-50-200°C	388	IP44
FU 9803 B M	148.5*148.5*77.5	-	1.5	-	-	outdoor-50-200°C	606	IP55
FU 9803 C1 M	*148.5*148.5*26.5	-	2.0	-	-	Indoor-50-200°C	*388	IP44
FU 9803 C2 M	*148.5*148.5*77.5	-	1.5	-	-	outdoor-50-200°C	*606	IP55
FU 9804 A P2	204*204*29.5	50.0	2.0	80	6.7~20	Indoor-10-55°C	220	IP44
FU 9804 B P2	204*204*97.5	-	1.5	-	-	outdoor-10-55°C	388	IP55
FU 9804 C1 P2	*204*204*29.5	-	2.0	-	-	Indoor-10-55°C	*220	IP44
FU 9804 C2 P2	*204*204*97.5	-	1.5	-	-	outdoor-10-55°C	*388	IP55
FU 9804 A M	204*204*33.5	50.0	2.0	80	6.7~20	Indoor-50-200°C	830	IP44
FU 9804 B M	204*204*101.5	-	1.5	-	-	outdoor-50-200°C	1240	IP55
FU 9804 C1 M	*204*204*33.5	-	2.0	-	-	Indoor-50-200°C	*1040	IP44
FU 9804 C2 M	*204*204*101.5	-	1.5	-	-	outdoor-50-200°C	*1450	IP55
FU 9805 A P2	255*255*29.5	80.0	2.0	80	6.7~40	Indoor-10-55°C	360	IP44
FU 9805 B P2	255*255*109.5	-	1.5	-	-	outdoor-10-55°C	632	IP55
FU 9805 C1 P2	*255*255*29.5	-	2.0	-	-	Indoor-10-55°C	*475	IP44
FU 9805 C2 P2	*255*255*109.5	-	1.5	-	-	outdoor-10-55°C	*735	IP55
FU 9806 A P2	322*322*29.5	120.0	2.0	80	6.7~40	Indoor-10-55°C	545	IP44
FU 9806 B P2	322*322*109.5	-	1.5	-	-	outdoor-10-55°C	950	IP55
FU 9806 C1 P2	*322*322*29.5	-	2.0	-	-	Indoor-10-55°C	*730	IP44
FU 9806 C2 P2	*322*322*109.5	-	1.5	-	-	outdoor-10-55°C	*1090	IP55

*標註尺寸(標註數前)尺寸並不含網之重量 **C1 & C2-weight does not contain the weight of the fans

適配分機與通風過濾網快查表 Specification of the Fans fit the Ventilator Filter Unit

型號 Model	風道 Air Duct	可運配的風機 FANS
FU 9801 C1 & C2	圓風機直聯 Connect with fan directly	80-Series fan KA8025,KA8038,EC8025
FU 9802 C1 & C2	圓風機直聯 Connect with fan directly	80-Series fan KA8225,KA9038,EC9225
FU 9803 C1 & C2	圓風機直聯 Connect with fan directly	120-Series fan KA1225,KA1238,EC1225,EC1238,EC12038
FU 9803 C1 & C2 M	圓風機直聯 Connect with fan directly	120-Series fan KA1225,KA1238,EC1225,EC1238,EC12038
FU 9804 C1 & C2	P4-120	120-Series fan KA1225,KA1238,EC1225,EC1238,EC12038
	P4-172	172-Series fan KA1725,KA17025,KA17023,KA17255,KA17255B,KA17255C,EC1725,EC17023,EC17255,EC17255B,EC17255C
FU 9804 C1 & C2 M	M4-120	120-Series fan KA1225,KA1238,EC1225,EC1238,EC12038
	M4-172	172-Series fan KA1725,KA17025,KA17023,KA17255,KA17255B,KA17255C,EC1725,EC17023,EC17255,EC17255B,EC17255C
FU 9805 C1 & C2	P5-172	172-Series fan KA1725,KA17025,KA17023,KA17255,KA17255B,KA17255C,EC1725,EC17023,EC17255,EC17255B,EC17255C
	P5-160	172-Series fan KA1606
	P5-180	180-Series fan KA1806,EC1806
FU 9806 C1 & C2	P6-220	220-Series fan KA2206,KA2208,EC2206,EC2208
	P6-225	225-Series fan EC2258
	P6-250	250-Series fan KA2509,EC2509
	P6-207	207-Series fan KA2072,EC2072
	P6-280	280-Series fan EC2880

風機型號說明 Description of Axial AC Fan Code

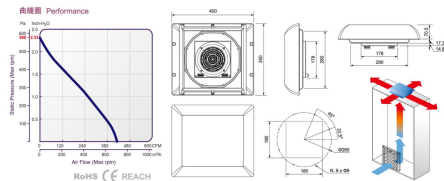


■ 盤用天井式散熱裝置 Roof Mount Ventilating Filter

RF-190



參數表 Specification		單位 Unit	RF-EC190
特性 Features			
風機風量 Fan air flow rate	m³/h (CFM)		703 (413)
風扇靜風量 Fan x blower air flow rate	m³/h (CFM)		832 (471)
額定電壓 Rated voltage	V		24VDC 148VDC 110VDC 115VAC 120VAC
轉速轉數 溫度 Temperature	°C	<25 25 30 35 40 45 >50	
功率 Power	W	CF 8 35 50 65 80 90	
轉速 轉速 Rated speed	rpm	CF 1100 2300 2600 2850 3000 3100	
外形尺寸 Dimensions H x W x D	mm		400 x 300 x 116
保護方式 Over current protection	-		By IC
電氣連接方式 Electrical connection	-		Terminal
運轉模式 Duty cycle	-		100%
特殊功能 (選配) Specific function (optional)	-		FGDRPMM-0-10VDC
工作溫度 Operating temperature	°C		-20~+60
防護等級 Protection grade	-		IP44
噪音值 Noise level	dB(A)		51-78
RF190-6xFL8006	RF 190-6xFL8006 capacity	m³/h (CFM)	581 (341)
空氣流向 Direction of the air flow	-		Inside → outside
軸承系統 Bearing system	-		Ballbearings
警報輸出 (選配) Alarm output (optional)	-		>60°C 無源觸點 (常開)
材質 Material	-		Mg
產品淨重/毛重 Weight (N.W./G.W.)	Kg		4.0/4.8
外殼尺寸 Package dimensions HxWxD	mm		459 x 405 x 136
符合標準 Conformity	-		CE
顏色 Colour	-		RAL7035



■ 盤用天井式散熱裝置 Roof Mount Ventilating Filter

RF-220



參數表 Specification		單位 Unit	RF-EC220
特性 Features			
風機風量 Fan air flow rate	m³/h (CFM)		972 (572)
風扇靜風量 Fan x blower air flow rate	m³/h (CFM)		851 (474)
額定電壓 Rated voltage	V		24VDC 148VDC 110VDC 115VAC 120VAC
轉速轉數 溫度 Temperature	°C	<25 25 30 35 40 45 >50	
功率 Power	W	CF 9 42 57 70 88 102	
轉速 轉速 Rated speed	rpm	CF 1050 2170 2420 2600 2800 2900	
外形尺寸 Dimensions H x W x D	mm		400 x 300 x 116
保護方式 Over current protection	-		By IC
電氣連接方式 Electrical connection	-		Terminal
運轉模式 Duty cycle	-		100%
特殊功能 (選配) Specific function (optional)	-		FGDRPMM-0-10VDC
工作溫度 Operating temperature	°C		-20~+60
防護等級 Protection grade	-		IP44
噪音值 Noise level	dB(A)		51-79
RF190-6xFL8006	RF 190-6xFL8006 capacity	m³/h (CFM)	834 (472)
空氣流向 Direction of the air flow	-		Inside → outside
軸承系統 Bearing system	-		Ballbearings
警報輸出 (選配) Alarm output (optional)	-		>60°C 無源觸點 (常開)
材質 Material	-		Mg
產品淨重/毛重 Weight (N.W./G.W.)	Kg		4.5/5.5
外殼尺寸 Package dimensions HxWxD	mm		459 x 405 x 136
符合標準 Conformity	-		CE
顏色 Colour	-		RAL7035

