

KIF-1000N/T KIF-2000N/T 使用說明書 KIF-3000N

1. 產品內容清單

- 包裝內容**
- 本體 (含固定座)
 - I/O 連接埠 (KIF-OC1)
 - 使用說明書 (本冊)
 - 接地線
 - 安全遮網 (KIF-OF1 for 1000N/T, KIF-OF2 for 2000N/T, KIF-OF3 for 3000N)
- 選購品**
- 交流電源轉換器 (KIC-03 for 1000N/T, 2000N/T, KIC-05 for 3000N)
 - I/O 連接埠 (KIF-OC1)

2. 特點與優點

- 體積小、重量輕、出風可調，用於桌上或設備都很方便。
- 高周波交流放電，離子密度可深入凹處，確實消除靜電。
- 高精度離子平衡。
- 近處、遠處皆可高速除電。
- 放電異常時，警示燈及接點輸出，有效監控。
- 快速清針模組，清潔、維護容易。

3. 產品用途說明

本產品風扇型靜電消除器，係針對電子部品、塑膠製品、薄膜製程等各種產業，在生產過程中，能簡單快速的去除靜電，大幅提升產品的品質及生產良率。

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4. 規格

	KIF-1000N	KIF-2000N	KIF-1000T	KIF-2000T	KIF-3000N
離子產生方式	電暈放電				
放電針電壓施加方式	高頻AC 約2KV, 72KHz				
靜電消除時間 ¹ (由±1000V至±100V)	約2.5秒	約1.5秒	約1.5秒	約1秒	約1秒
離子平衡	±15V	±15V	±5V	±5V	±15V
風量 CFM(M ³ /min)	22-45 (0.62-1.28)	64-150 (1.82-4.26)	26-60 (0.74-1.70)	64-150 (1.82-4.26)	128-300 (3.64-8.52)
臭氧量 (150mm處)	0.007ppm				0.014ppm
放電暫停控制 ²	-		電壓入力時暫停 (DC10V-30V)		
警報輸出	風扇停止		有		
*3	放電異常		有		
	清針模組異位		有		
環境溫度	0~40°C (indoors 室內)				
相對濕度	35%~75%，無凝結				
入力電源	DC24V ±5%				
消耗電流	220mA	470mA	370mA	470mA	750mA
重量(不含固定座)	500g	683g	516g	691g	1521g
本體固定座重量	177g	205g	177g	205g	308g

- *1 依最大的空氣速率測量，位於空氣出口中心距離風扇的正表面300mm處，所得之結果。
- *2 電壓入力時暫停時，警報接點輸出。(依出力模式選擇)
- *3 出力接點信號 NC/NO 面板切換 (50mA)
- ⚠ 1. 若輸入電源小於DC24V，則風扇風量及釋放離子量皆會下降，影響除電效果。
2. 使用輸出入信號接點前，請先參考 8. 接線範例說明。

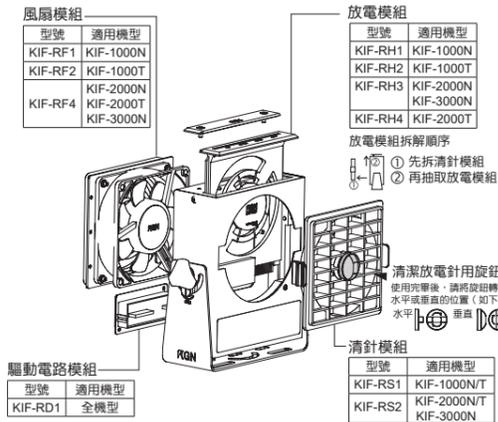
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除電時間 (sec)

型號	300mm		600mm		900mm		1200mm	
	+	-	+	-	+	-	+	-
KIF-1000N	2.4	2.5	5.0	5.2	10.2	10.8	14.2	17.7
KIF-2000N	1.1	1.3	1.6	2.2	2.9	3.8	4.9	5.7
KIF-1000T	1.5	1.7	3.4	3.6	6.8	7.2	9.4	11.5
KIF-2000T	1.1	1.3	1.6	2.2	2.9	3.8	4.9	5.7
KIF-3000N	1.1	1.3	1.6	2.2	2.7	3.5	3.5	4.5

註：本表數據係出廠檢驗值，非保證值，實際除電時，視現場環境而定。

5. 外觀、構造

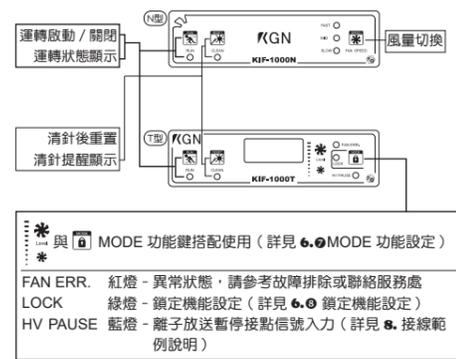


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背面

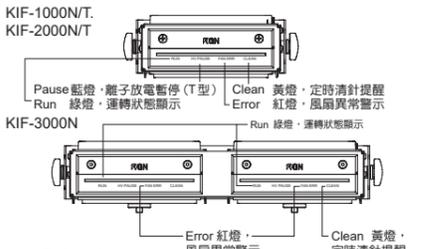


面板



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上視



6. 操作方法

- 消除靜電對象，置出口正前方。建議距離約 300-600mm。
設置場所：請盡量避免用於有眾多水氣、油氣、灰塵的場所，以及高溫、多濕的場所。
本產品不可用於需要防塵的場合。
- 本產品前方 200mm、側面及後方 50mm 的範圍內，請不要放置任何物品。此區域範圍內，容易感應到高電壓，而產生帶電的可能。
觸電危險：通電中不要觸摸放電針。保養或維修，請停止運轉 50mm。請務必做好接地。
- 安裝遮網
預防物品不慎掉入時，可安裝遮網。安裝方式如右圖，先拆開背面風扇遮網蓋，放入遮網後，重新裝上風扇遮網蓋。

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- 插入 KIC-03 或 KIC-05 電源供應器。
使用 I/O 連接埠輸入電源時，請參考 8. 接線範例說明

6. 啟動及停止運轉：

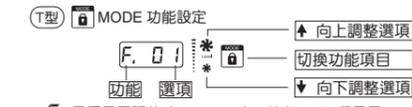
- 啟動運轉：
 - 待機中：● 運轉指示燈低速率閃爍。
在待機中，按 **[]** 0.5 秒後啟動運轉。
 - 運轉中：● 運轉指示燈恆亮。
 - 停止運轉：
 - 運轉中：● 運轉指示燈恆亮，在運轉中按 **[]** 0.5 秒後停止運轉，進入待機中。
 - 待機中：● 運轉指示燈低速率閃爍。
 - 調整風量：
 - N型 按 **[]** 調整風量，強、中、弱三段式風量循環切換。
 - T型 按 **[]** 增加風量，最大為 **[]** 段。按 **[]** 減少風量，最大為 **[]** 段。
 - 清潔放電針：
 - 當定時清針提醒燈亮時 (約 200 小時)，使用快速清針模組的旋鈕，清潔放電針，建議轉動 2 次以上。
 - 清潔完成，按下 **[]** 消除清針提醒燈，並再次啟動計時器。
- ⚠ 暖機 3~5 分鐘，離子平衡較為穩定
⚠ 放電針一段時間後，因為濕氣會產生結晶，建議至少每二週清潔一次。

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- 風扇異常警示燈 (FAN ERR. (紅燈))
若紅色 LED 燈亮，請參考故障排除，無法處理請聯絡本公司。

- 離子放電暫停 HV PAUSE (藍燈)
T型 pin#5 暫停接點入力時，停止離子放電。接線方式詳見 8. 接線範例說明。

- MODE 功能設定
N型 按 SPEED 按鍵 5 秒後切換 NO/NC 出力模式。當變更為 NO 時，中速燈閃爍。當變更為 NC 時，低速燈閃爍。註：出廠時預設為 NO 出力。



- 風扇風量調整 (Fan speed)：共有 1~12 段風量
↑ 向上選項：增加風量，最大為 **[]**
↓ 向下選項：減少風量，最小為 **[]**
- 清針定時提醒 (Hour)：1、2、3、4、5 百小時
↑ 向上選項：增加時數，最多為 **[]**
↓ 向下選項：減少時數，最少為 **[]**
- 離子放電暫停 (Pause)：暫停接點入力時，暫停功能選擇 1 開啟或 0 關閉。
↑ 向上選項：離子放電暫停功能開啟 **[]**
↓ 向下選項：離子放電暫停功能關閉 **[]**

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- 出力模式選擇 (Output)：選擇 4 種出力模式。
[] NO 接點出力模式
[] NC 接點出力模式
[] NO 及暫停狀態同時出力模式
[] NC 及暫停狀態同時出力模式

- 節能設定 (Light)：3 段面板亮度設定
↑ 向上選項：增加亮度，最亮為 **[]**
↓ 向下選項：減少亮度，最暗為 **[]**

- 鎖定 (Lock) 功能設定
①-1 進入鎖定功能鍵：持續按 **[]** 5 秒，直到指示燈快速閃爍後放開。

- 輸入鎖定密碼：
 - 調整數字：按 **[]** 鍵數字可上、下調整 **[]**
 - 切換位數：按 **[]** 可移動位數 **[]**
 - 跳出設定：若 20 秒未操作，將自動跳回 [功能設定]。
 - 儲存 (解除) 鎖定密碼：儲存時，請另行記錄鎖定密碼後，持續按 **[]** 3 秒完成，畫面跳回 [功能設定]。
 - 解除鎖定：鎖定後，鎖定指示燈會保持恆亮；請重複上述 ①-1 至 ①-3 步驟，即可解除鎖定。
- ⚠ 若不慎遺忘鎖定密碼，請聯絡服務處為您處理。

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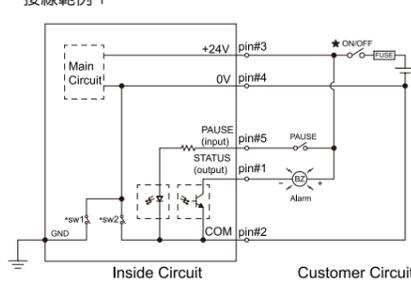
7. 維護

- 一般保養
關閉電源 → 轉動二次清針旋鈕 → 消除清針提醒燈
★ 使用完畢後，請將旋鈕轉至水平或垂直的位置
- 定期保養
關閉電源 → 拆除導風板 → 棉花棒沾酒精清潔 → 裝上導風板 → 消除清針提醒燈
★ 放電針屬消耗品，會因環境及開機時間，改變其效能及壽命。
★ 定期保養清潔放電針，可減緩放電針之耗損和防止驅動元件負載過大造成故障。

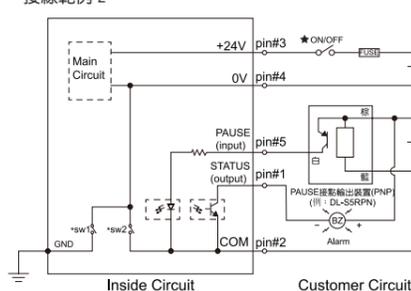
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8. 接線範例說明

接線範例 1

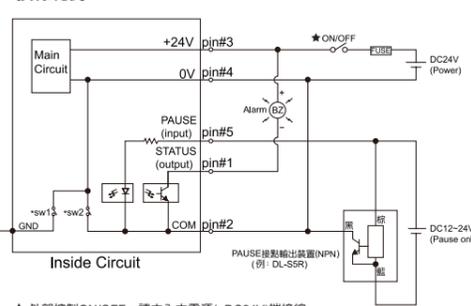


接線範例 2



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接線範例 3



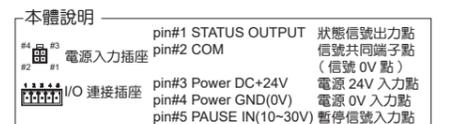
外部控制 ON/OFF，請由入力電源 (+DC24V) 端接線

信號切換

(置於驅動電路模組後方)

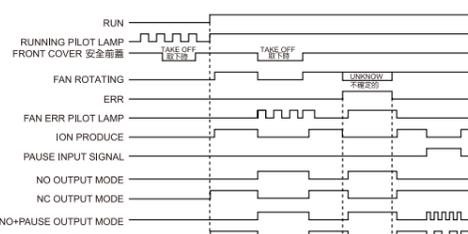
開關	說明	預設值
1: sw1	選擇電源 0V 與接點端子導通或隔離	ON- 導通
2: sw2	選擇電源 0V 與接點 COM 導通或隔離	OFF- 隔離

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- 電源及警告輸出線色說明 (選購品)
- [White 白]: STATUS OUTPUT 狀態信號出力點
 - [Black 黑]: COM 信號共同端子點
 - [Red 紅]: Power DC+24V 電源 24V 入力點
 - [Green 綠]: Power GND(0V) 電源 0V 入力點

9. 時序圖說明



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10. 警告

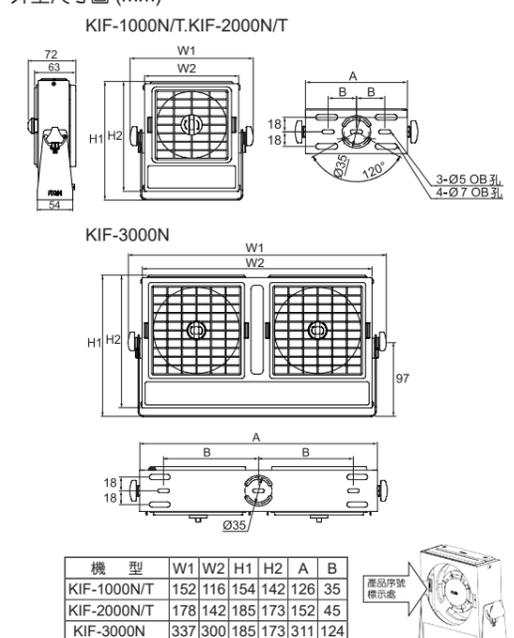
- 請勿在產品規格範圍外使用本產品，強制使用將造成故障、機能損壞或停止，降低產品的使用壽命與效果。
- 請勿碰觸放電針，因前部尖端銳利，容易刺傷造成傷害。
- 實施配線工作時請務必關閉電源，避免發生觸電的危險。
- 使用前請確認配線是否正確，錯誤的接線是造成動作異常的主因之一。
- 設置場所：請盡量避免用於有眾多水氣、油氣、灰塵的場所，以及高溫、多濕的場所。本產品不可用於需要防塵的場合。
- 進行檢查、定期清潔保養時，請務必關掉電源再實施工作，避免觸電。
- 通電中請勿觸摸放電針，以免發生觸電危險。
- 本產品進行更換高壓模組、驅動電路組、風扇模組前，請關閉供應的電源或拔除電源入力端子插頭。
- 使用前，請務必做好接地！！

11. 注意

- 若輸入電源小於 DC24V，則風量及釋放離子量下降，影響除電效果。
- 暖機 3~5 分鐘，離子平衡較為穩定。
- 使用 I/O 連接埠或使用輸出入信號接點前，請參考 8. 接線範例說明。
- 如需頻繁開關使用，請由 PAUSE 接點控制。
- 放電針一段時間後，因為濕氣會產生結晶，建議至少每二週，使用清針模組清潔放電針，每次清潔時，建議轉動旋鈕二次或以上。
- 使用操作鎖定功能時，若不慎遺忘鎖定密碼，請聯絡服務處為您處理。
- 若風扇異常警示 (紅燈) 亮起，請參考故障排除，無法處理請聯絡服務處。
- 請勿將本產品應用於消除靜電以外的目的。
- 遇有故障或異常時，請先參考故障排除，若有無法處理的狀態，由於有必要讓專家或以特殊儀器做調整、維修，因此請務必與銷售工程師聯繫。

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外型尺寸圖 (mm)



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FGN IONIZER 故障排除參考

FAN TYPE 狀況	可能原因	對策
供應電源入力或停止入力時，紅色警報燈短暫亮燈，狀態出力接點短暫輸出	正常	
風扇不會轉動：所有指示燈都不亮，按下操作按鈕都沒有反應，按 RESET 按鈕也沒有反應	電源未接 電源入力端子未完全插入主機 電源入力接線錯誤	接上電源，如：KIC-03、KIC-05 重新插入電源入力插頭 參考 8. 接線範例說明，確認線路
風扇無法轉動：紅色警報燈閃爍	主機故障	請聯絡服務處
風扇不會轉動：運轉指示燈閃爍	未啟動運轉	請按運轉鈕啟動風扇
按下操作按鈕沒有反應：LOCK 燈亮著	操作鎖定中	參考密碼鎖定功能設定操作 6. 說明解除鎖定
風扇無法轉動：紅色警報燈亮著	安全前蓋 (快速清針模組) 未蓋好 安全前蓋 (快速清針模組) 的開關故障	重新蓋上安全前蓋 請聯絡服務處
風扇無法轉動或太慢：紅色警報燈亮著	供應電源電壓或電流量不足	請確認電源電壓及電流量
風扇無法轉動或太慢：紅色警報燈亮著	驅動模組故障	請聯絡服務處，更換驅動模組
風扇無法轉動或太慢：紅色警報燈亮著	風扇模組故障	請聯絡服務處，更換風扇模組

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FGN IONIZER 故障排除參考

FAN TYPE 狀況	可能原因	對策
紅色警報燈亮著：風扇轉動正常，綠色的運轉燈亮著	供應電源電壓或電流量不足 驅動模組未設置完成 高壓放電模組未設置完成	請確認電源電壓及電流量 請重新裝置驅動模組 請重新裝置高壓放電模組
靜電無法消散或太慢：紅色的警報燈沒亮，藍色的暫停燈亮著	驅動模組故障 高壓放電模組故障	請聯絡服務處，更換驅動模組 請聯絡服務處，更換高壓放電模組
靜電無法消散或太慢：綠色的運轉燈亮著，而且風扇轉動正常，紅色的警報燈沒亮，藍色的暫停燈沒亮	暫停放電接點入力中 供應電源電壓或電流量不足 放電針過於髒污 高壓放電模組潮濕，或附近有導電物質，或前蓋有導電物質，金屬、碳粉、污垢等	請確認暫停放電功能的使用狀態 請確認電源電壓及電流量 請清潔放電針 請確認高壓放電模組及整流前蓋的狀態
靜電無法消散或太慢：綠色的運轉燈亮著，而且風扇轉動正常，紅色的警報燈沒亮，藍色的暫停燈沒亮	驅動模組故障 高壓放電模組故障	請聯絡服務處，更換驅動模組 請聯絡服務處，更換高壓放電模組
靜電無法消散或太慢：紅色的警報燈亮著	產品性能規格不足	請聯絡服務處，提供靜電改善對策

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KIF-1000N/T KIF-2000N/T Instruction Manual KIF-3000N

1. Product list

- Package Content**
- I/O Connector(KIF-OC1)
 - Operation instruction(this manual)
 - Ground Wire
 - Body (including mounting kit)
 - Safety Filter(KIF-OF1 for 1000N/T, KIF-OF2 for 2000N/T,3000N)
- Option accessories**
- AC Power Adapter (KIC-03 for 1000N/T,2000N/T, KIC-05 for 3000N)
 - I/O Connector(KIF-OC1)

2. Features and advantages

- Small volume, light weight, flow volume adjustable, convenient for desk top or inside-equipment applications.
- High frequency AC discharge, high density ion capable of infiltrating into cavities, hence thoroughly eliminating static.
- High accuracy ion balance.
- High speed discharge in both short or long distance.
- Whenever abnormal discharge occurs, there will be warning light and contact point output for effective monitoring and control.
- Fast pin cleaning module. Easy cleaning and maintenance.

3. Applications of this product

This Model static electricity eliminator is designed for those applications in manufacturing processes for industries of electronic parts, plastic products, films, etc. It can easily and rapidly eliminate static during manufacturing thus drastically promote product quality and higher production successful rate.

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4. Specification

	KIF-1000N	KIF-2000N	KIF-1000T	KIF-2000T	KIF-3000N
Ion Generation	Corona discharge				
Voltage at discharging pin	High-frequency AC				
Static elimination time *1 (±100V~±100V)	2.5 sec	1.5 sec	1.5 sec	1.0 sec	1.0 sec
Ion balancing	±15V		±5V		
Air volume CFM(M ³ /min)	22~45 (0.62~1.28)	64~150 (1.82~4.26)	26~60 (0.74~1.70)	64~150 (1.82~4.26)	128~300 (3.64~8.52)
Ozone volume (within 150 mm)	0.007ppm				0.014ppm
Control for discharging suspension *2	-		By power input suspension (DC10V~30V)		
Warning output *3	Fan stop Discharge error		YES YES		
High voltage output	Approximate 2KV,72KHz				
Ambient temperature	0~40°C (indoor)				
Relative humidity	35%~75% · non-condensing				
Power input	DC24V ±5%				
Current consumption	220mA	470mA	370mA	470mA	750mA
Weight(tripod excluded)	500g	683g	516g	691g	1521g
Weight(mounting kit)	177g	205g	177g	205g	308g

- *1 Measured with maximum air speed and at a location centered in the air output and 300mm away from the fan.
- *2 When pausing the power input, the warning contact output.
- *3 Signaling at output contact, NC/NO panel switch (50mA)

- If the input power is less than DC24V, the air flow of the fan and the quantity of the released ions will drop and affect the ionizing effect.
- Before using the input/output signal connection, as per 8. Wiring Example Instructions.

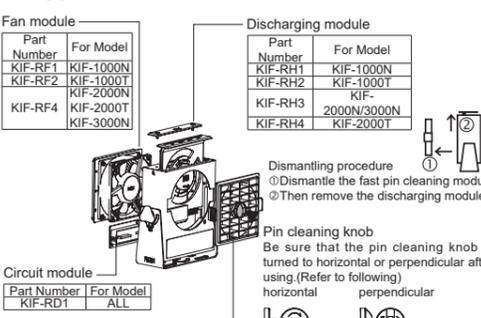
-2-

Decay Time

Model	300mm		600mm		900mm		1200mm	
	+	-	+	-	+	-	+	-
KIF-1000N	2.4	2.5	5.0	5.2	10.2	10.8	14.2	17.7
KIF-2000N	1.1	1.3	1.6	2.2	2.9	3.8	4.9	5.7
KIF-1000T	1.5	1.7	3.4	3.6	6.8	7.2	9.4	11.5
KIF-2000T	1.1	1.3	1.6	2.2	2.9	3.8	4.9	5.7
KIF-3000N	1.1	1.3	1.6	2.2	2.7	3.5	3.5	4.5

Note: The figures in the table above are ex-factory inspection values, but not guarantee values, which will be determined according to the site environment during actual ionizing status.

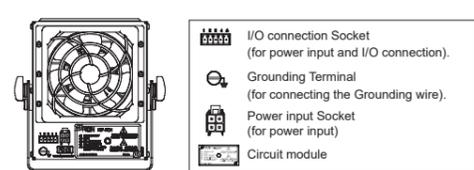
5. Appearance and Construction



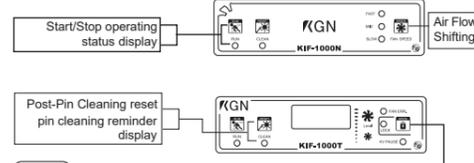
Part Number	For Model
KIF-RD1	ALL

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Backside



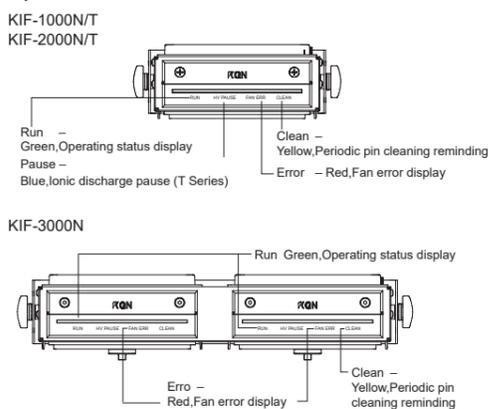
Panel



- (T Series)**
- and mode function key should be used together (as per 6. MODE function setting).
 - FAN ERR - Red Abnormal status. Please refer to troubleshooting or contact our Customer Service Dept.
 - LOCK - Green Locking Mechanism Setting (as per 6. Locking Mechanism Setting).
 - HV PAUSE - Blue Ion discharge pause connection signal input (as per 8. Wiring Example Instructions).

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Top View



6. Operating Method

- Put the object that is to be subjected to static electricity elimination in front of the air outlet. Distance is suggested to be around 300~600mm.
 - Installation location: Try to avoid locations with abundant of steam, oil vapor, dust, and high temperature and high humidity.
 - This product shall not be used at locations where explosion-proof is required.

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- Please keep the range of 200mm ahead, 50mm aside and behind this machine clear of any other objects on the ground that charging is highly possible within that range due to induction by high voltage.
 - ELECTRIC SHOCK DANGER**
 - Never touch the discharge needle when energized
 - Switch off power before going ahead with service or maintenance
 - Be sure that grounding is properly executed

- Mount the Filter
To prevent inadvertent dropping of articles, the Filter should be installed.
The installation method is as per the figure. Remove the Fan Filter Cover on the backside, load the Filter and then restore the Fan Filter Cover.

- Input KIC-03 or KIC-05 power adapter.
 - When using the I/O connecting socket for inputting power, as per 8. Wiring Example Instructions.

- Start and stop running:
 - Start Running: a. STANDBY: The indicator flickers slowly. Under Standby, push [] for 0.5 second and then start running.
b. RUN: The indicator remains illuminated. Running, push [] for 0.5 second and then stop running for entering STANDBY status.
c. STANDBY: The indicator flickers slowly.
 - Stop Running: a. RUN: The indicator remains illuminated. Under Running, push [] for 0.5 second and then stop running for entering STANDBY status.
b. STANDBY: The indicator flickers slowly.

- Adjust Air Flow:
 - Push [] to adjust the air flow and then shift among strong, medium and weak sections of air flow alternately.
 - Push [] to increase the air flow and the max. will be []. Push [] to decrease the air flow and the max. will be [].

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- 4 Clean the Ionizing Pin: When the periodic pin cleaning reminding indicator is illuminated (Approximately 200 hours)
 - Push the knob of the quick pin-cleaning module to clean the Discharge Pin. It is recommended to turn over two times.
 - After finishing the cleaning, push the pin removing reminding indicator and then start the Timer once again.

- Ion balance will be more stable after warm up about 3~5 minutes. After a certain period of operation, crystals will generate on the pin because of moisture. It is suggested that the pin be cleaned at least once every two weeks.

- Fan Error Warning Lamp (Red LED) FAN ERR.
If the red LED is illuminated, refer to Troubleshooting. If not avail, please contact this Company.

- Ionic Discharge Pause (Blue LED) HV PAUSE

- MODE Function Setting
 - Push [] SPEED key for 5 seconds and then shift NO/NC output mode. When shifting to NO, the medium-speed lamp will flicker. When shifting to NC, the low-speed lamp will flicker. Note: It has been set at NO Output when delivering from the factory.

- MODE function setting
 - Adjust the option upward
 - Shift the functional items.
 - Adjust the option downward

- Fan Speed Adjust: A total of 1~12 sections of air flow are provided.
 - Upward: Increase will be []; Downward: Reduce will be [].

- Pin Cleaning Time-set Reminding (Hour): 100, 200, 300, 400, 500 hours.
 - Upward: Increase will be []; Downward: Reduce will be [].

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- Ionic Discharge Pause: When pausing the connection input, stop the function start or stop selection.
 - Upward: Start []; Downward: Stop [].

- Output Mode Selection: Select 4 kinds of output modes as follows:
 - []: NO connection output; []: NC connection output.
 - []: NO and pause status concurrent output mode.
 - []: NC and pause status concurrent output mode.

- Power Saving Set (Light): 3 sections of panel brightness setting.
 - Upward: Increase will be []; Downward: Reduce will be [].

- Lock Mechanism Setting

- Enter Lock Mechanism Key: Push [] continuously for 5 seconds and then release until the indicator flickers quickly.

- Enter locking password:
 - Adjust the digits: Push [] digit key for adjusting. [] upward and downward.
 - Shift the digit place: Push [] to move the digit place []
 - Quit Setting: If the key remains inactive for 20 seconds, it will quit and return to the [Function Set].

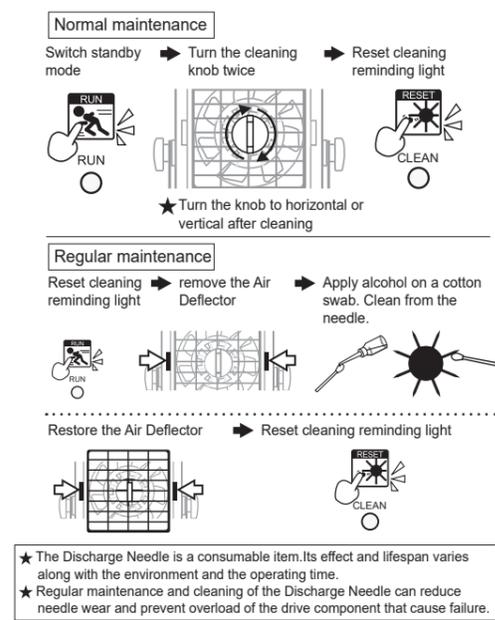
- Save (Release) Lock Password: To save, log the Lock Password and push [] continuously for 3 seconds and return to Function Set.

- Release Lock: After locking, the Lock indicator will remain illuminated. Repeat steps 1 to 3 to release the locking.

- If you forget the locking password, please contact our Customer Service Dept. and they will solve the problem for you.

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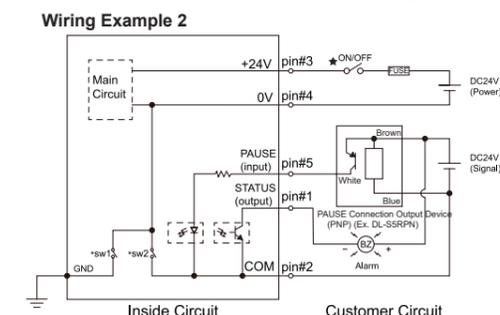
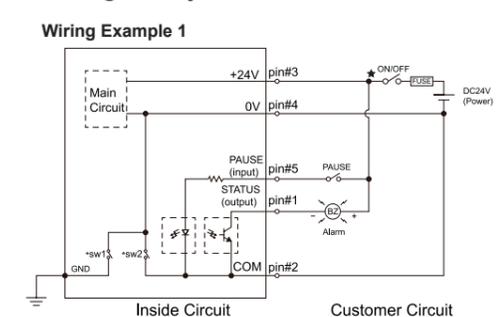
7. Maintenance



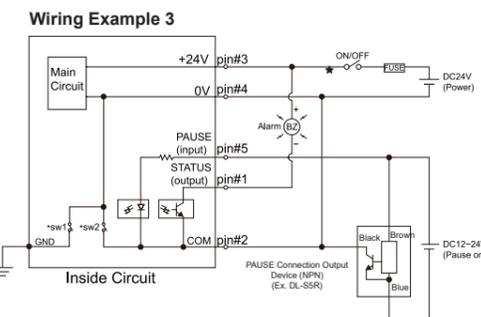
- The Discharge Needle is a consumable item. Its effect and lifespan varies along with the environment and the operating time.
- Regular maintenance and cleaning of the Discharge Needle can reduce needle wear and prevent overload of the drive component that cause failure.

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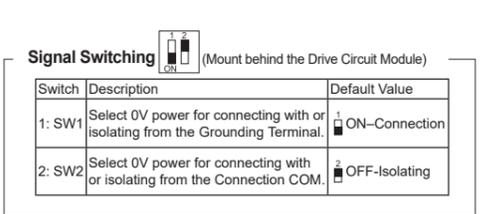
7. Wiring Example Instructions



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- ON/OFF of the power to the ionizer at the input side (+DC24V)



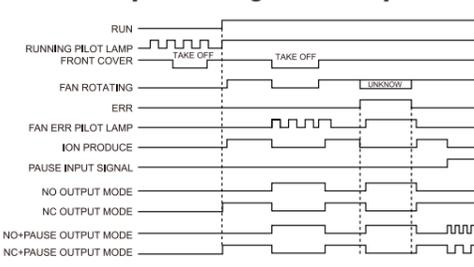
Switch	Description	Default Value
1: SW1	Select 0V power for connecting with or isolating from the Grounding Terminal.	ON-Connection
2: SW2	Select 0V power for connecting with or isolating from the Connection COM.	OFF-Isolating

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Main Body Description		
#4 #3	pin#1 STATUS OUTPUT	Status signal output point
#2 #1	pin#2 COM	Signal common terminal point (Signal 0V point)
Power Input Socket		
pin#3	Power DC+24V	24V power input point
pin#4	Power GND(0V)	0V power input point
pin#5	PAUSE IN(10~30V)	Pause signal input point
I/O Connection Socket		

Power and Alarm Output Wire Color Description (optional)		
[White]	STATUS OUTPUT	Status signal output point
[Black]	COM	Signal common terminal point
[Red]	Power DC+24V	24V power input point
[Green]	Power GND(0V)	0V power input point

8. Time Sequence Diagram Description



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9. Warning

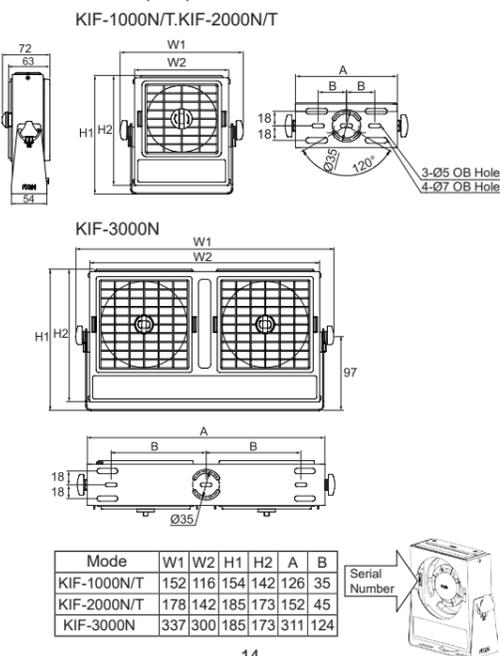
- Please don't use KGN IONIZER in excess of its specification range. Such use could result in product breakdowns, cessation of function, or damage. It could as well result in a significant reduction of its service life.
- Please don't touch the discharging needles, because it has a sharp-pointed tip. It could result in hand injury.
- Please shut off power when performing wiring work. Leaving the power on could result in electric shock.
- Please check the catalogue to ensure the IONIZER wiring is correct. Error wiring could lead to abnormal operation.
- Installation location: Try to avoid locations with abundant of steam, oil vapor, dust, and high temperature and high humidity. This product shall not be used at locations where explosion-proof is required.
- Please shut-off power when inspecting, cleaning and performing maintenance. Leaving the power on could result in electric shock.
- Never touch the discharge needle when energized. Leaving the power on could result in electric shock.
- Before replacing HV module, drive module or fan module of this product, be sure to disconnect the supply power or remove the power input terminal plug.
- Before use, please be sure that grounding is properly executed.

10. Caution

- If the input power is less than DC24V, the air flow of the fan and the quantity of the released ions will drop and affect the ionizing effect.
- Ion balance will be more stable after warm up about 3~5 minutes.
- When using the I/O connecting socket for inputting power, as per 8. Wiring Example Instructions.
- If you need to use the switch frequently, you can control the PAUSE to contact it.
- After a certain period of operation, crystals will generate on the pin because of moisture. It is suggested that the pin be cleaned at least once every two weeks.
- If you forget the locking password, please contact our Customer Service Dept. and they will solve the problem for you.
- If the red LED is illuminated, refer to Troubleshooting Instructions. If not avail, please contact this Company.
- Please don't use IONIZER for any other purpose than for static electricity removal.
- If a failure or error occurs, please refer to the Troubleshooting Instructions first. If the problem cannot be solved and it must be adjusted or maintained by a technician or with special instruments, please contact our Sales Engineer.

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Dimensions (mm)



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KGN IONIZER TROUBLESHOOTING INSTRUCTIONS

FAN TYPE STATUS	POSSIBLE CAUSE	SOLUTION
The red alarm lamp is illuminated intermittently when supplying or stopping the power input.	Normal	
The status output connection presents intermittent output phenomenon when supplying or stopping the power input.	Normal	
The Fan will not turn: Indicators are not illuminated. The Fan remains inactive after pushing the operation button or after pushing the RESET button.	Power is not connected. The power input terminal is not completely inserted into the machine. The power input wiring is wrong. The machine has faulted.	Connect power, for example: KIC-03 · KIC-05 Insert the power input plug again. Refer to 8. Wiring Example Instructions to confirm the wires. Contact the Customer Service Dept.
The Fan will not turn: The operation indicator is flickering.	The RUN button is not pressed.	Push the RUN button to start the Fan.
The Fan remains inactive after pushing the operation button and the LOCK lamp is illuminated.	The machine is under operation locking status.	Refer to the instructions of 6. Password Locking Mechanism Setting and Operation to release the locking.
The Fan will not turn: The red alarm lamp is flickering.	The Front Cover (Fast Pin Cleaning Module) is not properly covered. The switch of Front Cover (Fast Pin Cleaning Module) is faulted.	Restore the Front Cover. Contact the Customer Service Dept.
The Fan will not turn or the speed is too slow: The red alarm lamp is illuminated.	The capacity of power voltage or current is insufficient. The Drive Module has faulted. The Fan Module has faulted.	Confirm the capacity of power voltage and current. Contact the Customer Service Dept. for replacing the Drive Module. Contact the Customer Service Dept. for replacing the Fan Module.

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KGN IONIZER TROUBLESHOOTING INSTRUCTIONS

FAN TYPE STATUS	POSSIBLE CAUSE	SOLUTION
The red alarm lamp is illuminated but the Fan rotates normally. The green operation lamp is illuminated.	The capacity of power voltage or current is insufficient. The Drive Module is not completely mounted. The Drive Module has faulted.	Confirm the capacity of power voltage and current. Set up the Drive Module again. Contact the Customer Service Dept. for replacing the Drive Module.
The electrostatic electricity cannot be dispersed or the ionizing speed is too slow. The red alarm lamp is not illuminated. The blue Pause lamp is illuminated.	The HV Discharge Module is not completed mounted. The Drive Module has faulted.	Set up the HV Discharge Module again. Contact the Customer Service Dept. for replacing the HV Discharge Module.
The electrostatic electricity cannot be dispersed or the ionizing speed is too slow. The Green RUN lamp is illuminated. The Fan is operated normally. The red alarm lamp is not illuminated. The blue Pause lamp is not illuminated.	The ionizing Pause connection is under power input status. The capacity of the power voltage or the current is insufficient. The Ionizing Pin is severely contaminated.	Confirm the operating status of pause discharge function. Confirm the capacity of power voltage and current. Clean the Discharge Pin.
The electrostatic electricity cannot be dispersed or the ionizing speed is too slow. The Green RUN lamp is illuminated. The Fan is operated normally. The red alarm lamp is not illuminated. The blue Pause lamp is not illuminated.	The HV Discharge Module is damaged; or a conductive substance is presented near around; or a conductive substance is affixed on the Front Cover, such as metal, carbon powder or dirt, etc.	Confirm the status of HV Discharge Module and the Rectifier Front Cover.
	The Drive Module has faulted. The HV Discharge Module has faulted.	Contact the Customer Service Dept. for replacing the Drive Module. Contact the Customer Service Dept. for replacing the HV Discharge Module.
	The performance specification of the product is insufficient.	Contact the Customer Service Dept. for providing electrostatic improvement solutions.

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