微電腦自動加液器

MICOM LIQUID FEEDER 説明書/保證書 DIRECTIONS/GUARANTEE

CS072A-1

附電源供應器組

Switching power supply set attached

CS072A-2

附連接線組

DC jack connected wire set attached

特 點

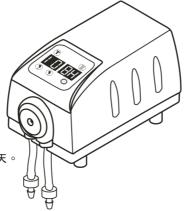
1.微電腦控制,操作最簡便。

2.可微調出量,極致技術。

3.給料次數24次/天 ~ 1次/9天。

4.液量1ml ~ 99ml ∘

5.LED字幕,顯而易見。



Features

- Micro-computer single-chip controlled, simply operate.
- 2.Unique micro-adjusting device on dosage.
- 3.Intelligent dosing time.24 times/day ~ 1 time/9 days.
- 4.1 ml to 99 ml dosage as set.
- 5.Bright LED display, easily visible.

責任保證

在正常用途及服務下,從購買日 算起12個月,對產品。件或製造 所產生瑕疵做保證。此保證僅限 於本機體,機體外的損失非的 障權限之內,請退回您當地的經 銷商修理或替換。

Limited Warranty

Under normal use and service, all appliances carry 12 months warranty from the date of purchase on parts and labor against manufacturing defects. Please return the unit if deemed defective to your local dealer for repair or replacement. The warranty is limited to this appliance only, Not responsible for consequential loss or damage.

經銷店章 Sealed By Store

購買日期 Date Purchased _____/____/____

親愛的客戶:

感謝您購買本產品,為安全使用 和取得最佳性能,請詳細閱讀下 列說明:

Dear customer:

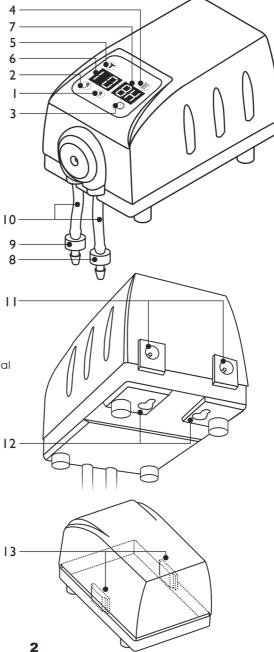
We appreciate you purchase this product, in order to ensure your safety and gain the perfect functions, please read the following illustration.

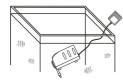
各部名稱簡介

- 1.液量設定鍵 個位數
- 2.液量設定鍵 十位數
- 3.時間設定鍵 每間隔
- 4.橡膠管強迫佈滿流體與排氣鍵
- 5.微調出量測試鍵
- 6.液量設定顯示器
- 7.時間設定顯示器
- 8.液體進料塑膠接頭
- 9.液體出料塑膠接頭
- 10.橡膠管 可替換
- 11.dc 12V電源插座 X 2
- 12. 懸吊口 X 2
- 13.磁鐵 X 2

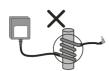
PARTS NAMES

- 1.Liquid volume setting button unit
- 2.Liquid volume setting button decimal
- 3. Time-setting button every intervals
- 4. Full of liquid & put air out button
- 5. Micro-adjusting dosage test button
- 6. Liquid volume setting display
- 7. Time setting display
- 8. Liquid entrance connector
- 9.Liquid exit connector
- 10. Rubber hose replaceable
- 11.dc 12V jack X 2
- 12. Suspensible hole X 2
- 13.Magnet X 2

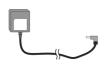






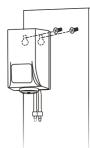












注意事項

- ●勿使本體落入水中,以免 電子零件受損以致短路。
- ●避冤電源供應器的電線 受到刮傷凹折,尤其是 電線尾端針頭處。
- ●請勿將電源供應器的電 線纏繞在其他物體上。

附件

- ●橡膠管 3米。 内徑: 2.6毫米, 外徑: 4.9毫米。
- ●電源供應器 1組。 (附屬於型號 CS072A-1) 輸入: 詳見標示貼紙, 輸出: dc 12V 1000mA。
- DC插座連接線 1組。 (附屬於型號 CS072A-2)

安裝方式

- ●平放於桌面上。
- ●懸掛於牆上。 將本體背部的懸吊口掛在 釘子上。

CAUTION

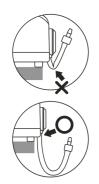
- Avoid the main-body falling into the water, don't risk the electronic components causing a short circuit.
- Avoid switching power supply being scraped and concaved, especially the pinpoint on the end of wire.
- Don't tie switching power supply on other articles.

ACCESSORIES

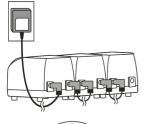
- Rubber hose 3m.
 Inside diameter: 2.6mm,
 outside diameter: 4.9mm.
- Switching power supply 1 set.
 (Attached to model CS072A-1)
 Input: Look at a mark label,
 Output: dc 12V 1000mA.
- DC jack connected wire 1 set.
 (Attached to model CS072A-2)

INSTALLATION

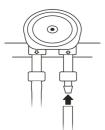
- Put on the table.
- Suspend on the wall.
 Hang suspensible hole at the rear of main body on the nail.



●橡膠管避冤凹折,否則會 阻塞液體流動。 Avoid rubber hose being bent as a concave, otherwise it will block up the flowing liquid.



●利用本體二側的磁力相吸, 最多可以3台並排擺放。 Use the magnetic attraction on both sides of main body. Up to three units placed side by side.



●將橡膠管套入塑膠接頭。注意:右進左出。

• Put the rubber hose onto connector.
Attention: the right-in, the left-out.



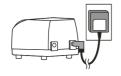
●將右側橡膠管插入液體容器内(揚程約1.5米), 左邊橡膠管放入魚缸中 (揚程約1.5米)。 • Insert the right side hose into the vessel (Head around 1.5 meter), and put the left side hose onto the tank (Head around 1.5 meter).

電源操作

- ●電源供應器插入ac電壓 插座,輸出端插入 dc 12V插座。
- ●數值 图 代表微電腦 記憶前次的設定數值。 表示每隔8小時後會自動 給料10ml。

POWER OPERATION

- Plug the ac adapter into the outlet, plug the output into dc 12V jack.









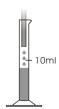
l 018H

(T)









設定鍵操作

- ●欲管内強迫佈滿流體與 排氣,請持續按→鍵。
- ●將管内氣體排出,使左右 兩邊橡膠管佈滿液體後才 離開按鍵。

注意:補充新液換新瓶時, 此道程序必做。

- ■設定液體給料時間請按時間設定鍵 → , 每按一下 , LED將從1H→2H→3H→4H → 6H→8H→Hd(12H) → 1d→2d→3d→4d→5d→6d→7d→8d→9d循環指示。LED顯示8H表示從按 → 鍵動作開始8小時後,本機蠕動幫浦會開始時轉動以便給料,往後每循環8小時會自動給料運作,其他設定時間依此類推。
- ●設定液體給料數量請按液量設定鍵 ③ (個位數) 與 ③ (十位數),設定範圍1~99ml。

微調出量調整

- ●請按微調出量測試鍵 **T** 持續4秒。
- LED將顯示 51 1111 ,左邊 「111 (可調整) 是蠕動幫浦 運轉時間,右邊 111 是液 體給料數量測試値。
- ●2秒後液體開始給料10ml。

SETTING BUTTON OPERATION

- Intend forcing the inside of hose being full of liquid and putting air out, please continually press () button.
- Put the air which in side of hose out, when both side of hose be full of liquid and then left the button.

Attention: Exchange a new vessel for a liquid supplement, this procedure must do.

- While setting the dosing time, please press the \bigcirc button, the LED would cyclically indicate $1H \rightarrow 2H \rightarrow 3H \rightarrow 4H \rightarrow 6H \rightarrow 8H \rightarrow$ Hd $(12H) \rightarrow 1d \rightarrow 2d \rightarrow 3d \rightarrow 4d \rightarrow 5d \rightarrow 6d \rightarrow$ 7d \rightarrow 8d \rightarrow 9d at one touch. The LED indicate 8H means that passed 8 hours from a beginning action of the \bigcirc press, the dosing pump would automatically dose a dosage, afterwards every 8 hours would automatically dose a dosage, and so on.
- While setting the dosage, please press the liquid volume setting button (unit) and button (decimal), setting range 1~99ml.

MICRO-ADJUSTING DOSAGE

- Please press continually the test button T for 4 seconds.
- Then the LED indicate \$\ \begin{align*}
 \text{If } \\ \text{(can be adjustable)} \text{ was the running time of dosing pump, right }\ \text{If was the testing value of a dosage.}
- After 2 seconds, start dosing 10ml dosage.









- ●如果液量低於10ml,如 9.5ml •
- ▶則按(✨) 鍵增加運轉時間, 從58→59→60→61→… 重複測試至達到10ml為止。
- D如果液量高於10ml,如 10.5ml •
- 則按(♠)鍵減少運轉時間。 從58→57→56→55→…重 複測試至達到10ml為止。
- ▶給料測試值完成後,按 微調出量測試鍵(T)持 續4秒則恢復正常功能。
- LED顯示原來設定値 FO BH •

延遲模式操作

二至四台合併使用,當遇到 停電日再涌電的時候,延遲 (5~55分)模式功能可避免同 時給料。

- ▶請按時間設定鍵⟨҈⟩持續 4秒。
- LED將顯示 AF of of 代表進入延遲模式, 🔐 代表設定的給料時間會 自動延遲0分。 6

- If dosage lower than 10 ml, for example 9.5 ml.
- Then press the liquid volume setting button $(\stackrel{\lozenge}{\cdot})$ to increase the running time from 58 \rightarrow $59 \rightarrow 60 \rightarrow 61 \rightarrow \cdots$, repeatedly test until up 10ml dosage.
- If dosage higher than 10 ml, for example 10.5 ml.
- Then press the liquid volume setting button (4) to decrease the running time from 58 \rightarrow 57 \rightarrow 56 \rightarrow 55 \rightarrow ..., repeatedly test until down 10 ml dosage.
- After finished test, press continually the test button (\mathbf{T}) for 4 seconds and then return to the normal function.
- LED indicate the original value of setting 1 O BH .

DELAY MODE

Used with 2~4 units, the function of delay (5~55min) mode should avoid dosing a dosage at the same time while encountering blackout and re-power.

- Please press continually the time setting button (\checkmark) for 4 seconds.
- The LED indicate 🚻 👍 , 🚜 means entering delay mode, III means that the dosing time of setting would automatically delay 0 minute.



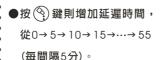












- 按②鍵則減少延遲時間,從55→···→ 15→ 10→5→ 0(每間隔5分)。
- ●延遲模式設定完成後,再按時間設定鍵 持續4秒則恢復正常功能。
- Press 9 button to decrease the delay time from $55 \rightarrow \cdots \rightarrow 15 \rightarrow 10 \rightarrow 5 \rightarrow 0$ (every 5 min intervals).

• Press (4) button to increase the delay time

from $0 \rightarrow 5 \rightarrow 10 \rightarrow 15 \rightarrow \cdots \rightarrow 55$

(every 5 min intervals).

- After finished delay mode setting, press again the time setting button of for 4 seconds and then return to the normal function.
- LED 顯示設定值 **[--] [H-]**。

lacklack LED indicate the value of setting lacklacklack lacklacklack lacklacklacklack .

《縮短時間測試

測試時間運轉功能是否正常

SHORTENING TIME

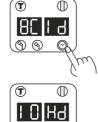
Test machine whether it normally function its running time.





- ●請按時間設定鍵 ◆ 持續 8秒。
- LED將顯示 **图 1**,代表每隔 24秒(從1d=24小時縮短成 24秒)後會自動給料8cc(ml),如有液體給料表示此機器的時間運轉功能正常。
- ●縮短時間測試完成後, 再按時間設定鍵 ◆ 持 續8秒則恢復正常功能。

- Please press continually the time setting button for 8 seconds.
- Then the LED indicate means that after every 24 seconds (Shorten from 1d=24 hours into 24 seconds) would automatically dose 8cc (ml) dosage, if have dosed a dosage, it means that this machine normally function its running time.
- After finished test, press again the time setting button for 8 seconds and then return to the normal function.



- LED顯示設定値 III III。
- LED indicate the value of setting H. H.

保養

●橡膠管與馬達是消耗品,必須定 期更換。

橡膠管: 運轉1000小時以後或給 料次數約50000次以後 橡膠管必須更換,如果 有重度運轉時,則視情 況縮短更換時間。

馬達: 運轉800小時後更換馬達。

步驟如下:

- 1.下蓋4支螺絲拆掉,打 開上下蓋。
- 2.拔開馬達接線上的連接器,取出蠕動幫浦組件。
- 3.反向操作換上新的蠕動 幫浦組件。

註: 橡膠管或馬達損壞需更換整 組蠕動幫浦。

技術規格

●型號: CS072A-1

附電源供應器組 輸入: 詳見標示貼紙 輸出: dc 12V 1000mA

幫浦運轉時全部消耗功率: 2.2W 給料次數: 24次/天~1次/9天

液量: 1ml ~ 99ml 液量精度: <±3%

尺寸(寬x高x深):67x71x113毫米

重量(含包裝盒):430g

●型號: CS072A-2

附DC插座連接線組 重量(含包裝盒):330a

備註: 技術規格等與CS072A-1

相同,惟連接線組與電源供應器組不同。

供應畚組个问

●注意:

上列數據皆為近似參考值,規格 若有變化,恕不另行通知。

MAINTENANCE

 The rubber hose and the motor are consumable parts and need to be maintained and replaced regularly.

Hose: The rubber hose has a running time of around 1000 hours or 50000 dosing times and after this usage, it needs replacement. If the rubber hose under heavy use conditions, the rubber hose should be shortened the regular time.

Motor: after a running time of around 800 hours , the motor needs replacement.

Replacing the motor as follows.

- 1. Unfasten the 4 screws in the back cover, open upper and back cover.
- 2.Pull the power cable connection out from the connector block and remove the dosing pump assembly.
- 3.To fit the new dosing pump assembly in reverse order.

Note: the rubber hose and motor are damaged that should replace the entire of dosing pump.

TECHNICAL SPECIFICATIONS

● Model: CS072A-1

Switching power supply set attached

Input: Look at a mark label Output: dc 12V 1000mA

 \bigcirc \bigcirc \bigcirc

Full Power consumption while pump running: 2.2W

Dosing time: 24 times/day \sim 1 time/9 days

Dosage: 1ml ~ 99ml Dosage Accuracy: <±3%

Measurement (WxHxD): 67x71x113mm

Weight (packaged):430g

● Model: CS072A-2

DC jack connected wire set attached

Weight (packaged):330g

PS: Tech-spec etc was the same as CS072A-1.

Only a connected wire set differ from a power supply set.

• ATTENTION:

Above data are approximate reference value, it wouldn't be advised if the specification being changed.