



SW-300

Long-Throw Snow Machine User Manual

- ENGLISH

- 中文



SNOW WIRELESS SW-300



© 2021 Antari Lighting and Effects Ltd.



- ENGLISH -

Safety Information



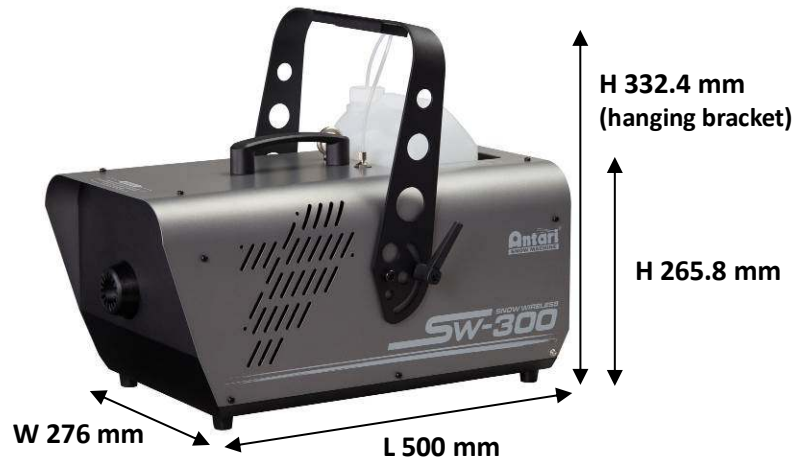
Please read the following safety information carefully before operating the machine. Information includes important safety information about installation, usage, and maintenance. Pay attention to all warning labels and instructions in this manual and printed on the machine.

If you have questions about how to operate the machine safely, please contact your local Antari dealer for help.

- Keep this device dry.
- Always connect to a grounded circuit to avoid risk of electrocution.
- Before connecting the machine to power, always check the voltage indicate on the machine matches to your local AC voltage. Do not use the machine if AC power voltage does not match.
- Disconnect the machine from AC power before servicing and when not in use.
- If the supply cord is damaged, contact your local Antari dealer for replacement.
- This product is for indoor use only! Do not expose to rain or moisture. If fluid is spilled, disconnect AC power and clean with a damp cloth. If fluid is spilled onto electronic parts, immediately unplug the machine and contact your local Antari dealer for advice.
- No user serviceable and modifiable parts inside. Never try to repair this product, an unauthorized technician may lead the machine to damage or malfunction.
- For adult use only. Children being supervised not to play with the machine. Never leave the machine running unattended.
- The machine is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
- Installed in a well ventilated area. Provide at least 50 cm space around the machine.
- Never add flammable liquid of any kind to the machine.
- Make sure there are no flammable materials close to the machine while operating.
- Only use Antari fluid. Other fluid may lead to heater clog and malfunction.
- If the machine fails to work, unplug the machine and stop operation immediately. Contact your local Antari dealer for help.
- Before transporting the machine, make sure the fluid tank is completely drained.

- Smoke fluid may present health risks if swallowed. Do not drink smoke fluid. Store it securely. In case of eye contact or if fluid is swallowed immediately look for medical advice.

Product Dimension



Product Overview



Setting Up

Step 1: Place the machine on a flat surface and in a suitably large area with at least 50 cm open space around the machine.

Step 2: Fill the fluid tank with Antari approved fluid

Step 3: Connect the machine to suitably rated power supply. To determine the power requirement for the machine refer to the label on the back of the machine



Always connect the machine to a protected circuit and ensure it is properly grounded to avoid risk of electrocution.

Step 4: Turn on the machine and wait on till LCD display show “Ready to Snow”

Step 5: To start making snow, locate the [VOLUME] button on the control panel, and press the button to start making fog.

Step 6: To turn off the machine, press [STOP] button and switch off power.

Operation

Control Panel Operation

The machine can be operated with an onboard digital control interface



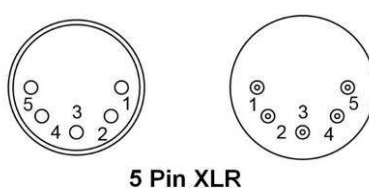
Button	Function
 [MENU]	Scroll through setting menu
 [UP]/[TIMER]	Up/Activate Timer function
 [DOWN]/[VOLUME]	Down/Activate Volume function
 [STOP]	Deactivate Timer/Volume function/Return to Standby

Control Menu

Interval Set 20s	Set interval from 20 to 2000 seconds
Duration Set 10s	Set duration from 10 to 200 seconds
Timer Out 100%	Set timer mode output level 0 to 100%
Volume Out 100%	Set volume mode output level 0 to 100%
Fan Out 20%	Set fan output level 20 to 100%
DMX512 Add. 1	Set DMX address 1 to 511
Wireless On	Turn On or Off W-1 wireless control function
Quick Start OFF	Turn On or Off quick start function

DMX Connector Pin Assignment

The machine provides a 5-pin XLR connector for DMX connection. The diagram below indicates pin assignment information.



Pin	Function
1	Ground
2	Data-
3	Data+
4	N/A
5	N/A

DMX Operation

Making the DMX Connection – Connect the machine to a DMX controller or to one of the machines in the DMX chain. The machine uses a 5-pin XLR connector for DMX connection, the connector is located on the rear of the machine.



Address Setup – Use control menu to set DMX address. The machine occupies 2 control channels. The starting address is defined as the first channel from which the machine will respond to the controller. Always double check to make sure there are no overlapping channels in order to control the machine correctly.

DMX Channel Function

Channel 1	DMX Value Range	Function
Snow Output Level	0 – 5	Snow off
	6 – 255	Snow Output 1 – 100%
Channel 2	DMX Value Range	Function
Fan Output Level	0 – 5	Fan 20%
	6 – 255	Fan 21 – 100%

RDM Control

The SW-300 is RDM enabled, allowing control system to configure, monitor and manage. See below table for supported RDM parameters

Value	RDM Parameter ID's	GET Allowed	SET Allowed
0x0001	DISC_UNIQUE_BRANCH		
0x0002	DISC_MUTE		
0x0003	DISC_UN_MUTE		
0x0030	STATUS_MESSAGE	O	
0x0050	SUPPORTED_PARAMETERS	O	
0x0051	PARAMETER_DESCRIPTION	O	
0x0060	DEVICE_INFO	O	
0x0070	PRODUCT_DETAIL_ID_LIST	O	
0x0080	DEVICE_MODEL_DESCRIPTION	O	
0x0081	MANUFACTURER_LABEL	O	
0x0082	DEVICE_LABEL	O	O
0x00C0	SOFTWARE_VERSION_LABEL	O	
0x00E0	DMX_PERSONALITY	O	O
0x00E1	DMX_PERSONALITY_DESCRIPTION	O	
0x00F0	DMX_START_ADDRESS	O	O
0x0400	DEVICE_HOURS	O	
0x1000	IDENTIFY_DEVICE	O	O

Wireless Operation

Wireless remote control W-1 consists of a transmitter equipped with two buttons for output ON and OFF; with an onboard receiver attach to the rear of SW-300



W-1 Wireless Transmitter



Wireless Receiver

Button	Function
[A]	Activate output
[B]	Deactivate output

In an open unobstructed space, the effective distance is 50 meters, the effective distance depending on obstacle level is 10-25 meters.

Registering transmitter

The transmitter can be paired or deleted from the receiver. Each receiver can pair up to 5 transmitters. Follow the steps below to pair or delete a transmitter from the receiver.

Step 1: Power on SW-300 Snow Machine

Step 2: When “Wireless Setup” shown on display, press button [A] on transmitter

Step 3: Once display show “Wireless Setup Ok”, registering process has completed.

IMPORTANT NOTE:

- *Wireless register menu will only be shown when Wireless is turn ON*
- *The machine allows registering transmitter within 15 seconds. When exceed 15 seconds power machine off and on again to complete the process.*

Transmitter battery replacement

If the effective distance appears to be decreased, it is possible the battery level is low and require replacement. In order to replace the battery, undo the three screws on the back of transmitter to release the cover. Replace with same type and specification of battery which is 12V

SC-3 Wire Remote Operation (Optional)



Wired remote control module SC-3 enable to control machine from a remote location. With three push buttons and two rotary knobs for activate/deactivate, prime and output level adjustment

Button/Knob	Function
VOLUME [KNOB]	Adjust pump output level
FAN [KNOB]	Adjust blower output level
PRIMING [YELLOW BUTTON]	Max output on pump and blower
POWER[RED BUTTON]	Turn On/Off SC-3 remote
MAX FAN [GREEN BUTTON]	Max output on blower

IMPORTANT NOTE:

PRIMING [YELLOW BUTTON] is meant for priming use, with a new tank of fluid or refill the fluid may not pump properly due to airlock in the pipeline, use this function to activate pump at maximum output, the MAX FAN [GREEN BUTTON] is used when needed to clean out residue at the tip of output nozzle. Both of these buttons will overtake output adjustment knobs.

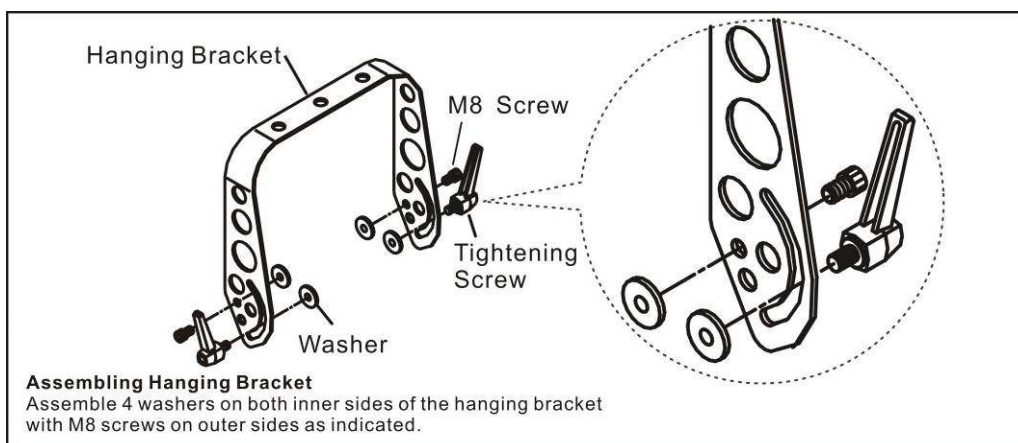
Physical Installation

Important

- Use supplied mounting bracket or rigging clamp to install machine.
- Make sure installation location, fastening connecting, and rigging hardware can hold at least 10 times the weight of the machine.
- Make sure no combustible or flammable materials are nearby.
- Secure machine with an approved safety cable that can hold at least 10 times the weight of machine.
- Make sure machine is installed in a well ventilated area.
- Consider machine replacement and routine maintenance access when selecting installation location.

Adjustable Mounting Bracket

Adjust mounting bracket by loosening screws, set the nozzle to desired angle and tighten the screw to finish adjustment. Illustration below demonstrates how to adjust mounting bracket.



Fluid

Only use Antari SL-N/SL-H liquid for the SW-300 Snow Machine. The machine is tested and calibrated with this liquid to get the best output performance. Warranty will be void if any other type of liquid is used, improper use of liquid may lead to machine failure and malfunction.



SL-N (New Formula)

- Artificial snowflake produced by SL-N is smaller in size, drier & lighter compared to SL & SL-A.
- Bigger snowflakes volume compared to SL.
- Good for indoor and outdoor operation.



SL-H

- SL-H can produce the highest snow volume and driest snowflakes among all Antari snow liquids.
- Good for outdoor operation.

Service and Maintenance

- Do not allow the machine to become contaminated.
- Remove dust from air vents with air compressor, vacuum or a soft brush.
- Only use a damp cloth to clean the casing.
- It is recommended to run the machine on a monthly basis in order to achieve best performance and output condition.
- Excessive dust, liquid and dirt built up will degrade performance and cause overheating.
- Before storing away after operation, pump pure water through the system for at least 1 to 2 minutes. This will help clean out the remaining snow fluid and prevent pump from malfunction on next usage.

Technical Specifications

- Input voltage	US model : AC 100-120V, 50/60Hz 7.5A EU model : AC 220-240V, 50/60Hz 3.8A
-Rated power	880 W
-Fluid consumption	280 ml/min (100% output)
-Fluid tank capacity	5 Liters
-Compatible fluid	Antari SL-N Snow Foam Fluid Antari SL-H Snow Foam Fluid
-Ambient temp/ range	5°C - 40°C
-Control	DMX 512 Timer Manual Wireless
-DMX channels	2 channels
-Connection	IEC (POWER) XLR 5-pin (DMX)
-Optional accessories	SC-3 Cable Remote
-Dimension	L 500 W 276 H 265.8 mm (H 332.4mm (hanging bracket))
-Weight	11.5 kg



安特利SW-300無線控制雪花機

使用說明及安全注意事項



在使用機器以前，請仔細閱讀以下說明，此份說明書包含了如何在安全的情況下安裝並使用機器，且會說明機器上所有標示的標籤所代表的意義。

如果您有任何使用上的問題，請聯繫當地的 Antari 經銷商尋求清楚的說明與協助。

- 請保持機器乾燥。
- 請配合接地型插座使用，以避免觸電的危險。
- 使用機器前，請小心判定使用場所的電壓及伏特數是否相符。
- 拔開機器和 AC 電源插座時，請確認機器已關機不在使用的狀態下。
- 當機器維修或不使用時，請關機，或請拔掉電源插頭。
- 如果電源線損壞，請聯繫您當地的 Antari 經銷商進行更換新的電源線。
- 本產品僅限室內使用，請避免暴露在雨中或是潮濕的環境。本產品非防水設計，遇潮濕、浸水或雪花水滲入時請即刻拔掉插頭、以乾布擦拭乾淨然後靜置。如果液體進入機器電子零件，請即刻拔掉插頭並且請與您的技術人員或 Antari 經銷商聯絡。
- 本機器不含任何用戶拆解和自行維修或修改的零件在內，請勿嘗試自行維修或改裝機器，未經授權的技術人員，可能導致機器故障或永久損壞。
- 機器僅限成人使用，請勿讓孩童將產品當成玩具玩耍。請勿於無人看顧的情況下使用。
- 請勿讓身體、精神、感官存在缺陷或缺乏經驗及相關知識者 (包含兒童)操作本機器。
- 在通風良好的地方安裝使用機器，機器周邊至少應保留 50 公分的空間
- 請勿添加任何易燃液體或物品進入機器。
- 操作機器時，請確認周邊沒有任何易燃的材料。
- 為確保機器的使用壽命，請使用 Antari 原廠雪花水，添加其他液體可能會導致電熱管阻塞和機器的故障。
- 如果機器出現故障，請拔下機器插頭，立即停止工作。並請連繫您當地的 Antari 經銷商。
- 運送機器以前，請確認機器的油箱已完全清空。
- 雪花水不能食用，吞食雪花水可能導致損壞健康的風險，請將雪花水存放在室內安全的地方。如果碰觸到眼睛或誤吞食，請立即尋求醫生的協助。

機器尺寸



機器外觀概述



設定安裝

步驟 1: 將機器平放於平坦的表面，機器周圍至少應保留 50 公分的空間。

步驟 2: 將 Antari 原廠雪花水注入機器所附的油桶，並注意不要拗折到油管。

步驟 3: 將機器連接電源。連接之前，請確認機器背後技術標籤上所標示要求功率，是否與電源相符。



請務必將機器連結到有保護的電路，並確保有正確地接地，以避免觸電的危險

步驟 4: 啟動機器電源並等待 LCD 控制面板顯示 “Ready to Snow” 表示機器已經準備好進行操作。

步驟 5: 欲開始輸出雪花，按下控制面板上的 VOLUME 旋鈕，開始輸出。

步驟 6: 欲關閉本機時，請按[STOP]按鈕並將 Powercon 電源接頭轉至 OFF 的位置。

操作

控制面板操作

使用機器所搭載的數位控制面板進行操作。



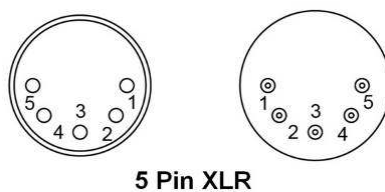
按鈕	功能
 [MENU]	進入不同功能設定畫面。
 [UP]/[TIMER]	執行設定好的間隔/輸出時間，按下  [STOP] 終止計時模式。
 [DOWN]/[VOLUME]	啟動持續輸出模式，直到按下  [STOP] 終止。
 [STOP]	關閉定時/定量/返回。

控制畫面

Interval Set 20s	設置間隔時間 20-2000 秒
Duration Set 10s	設置持續輸出時間 10-200 秒
Timer Out 100%	設置定時模式輸出量 0-100%
Volume Out 100%	設置定量模式輸出量 0-100%
Fan Out 20%	設置風扇轉速 20-100%
DMX512 Add. 1	設置 DMX 地址 1-511
Wireless On	開啟或關閉無線控制功能
Quick Start OFF	開啟或關閉快速啟動功能

DMX 連接 Pin 點說明

本機可提供 5 Pin XLR 的 DMX 連接選擇。下方為 Pin 的接點說明：



Pin	Function
1	接地
2	數據-
3	數據+
4	N/A
5	N/A

DMX 操作

建立 DMX 連結 – 將機器連接到 DMX 控制器或 DMX 鏈中的機器之一。
本機提供 5-pin XLR 的 DMX 連接選擇，該連接座位於機器的背板上。



DMX 地址設置 – 使用控制畫面設置 DMX 地址。本機佔用 2 個控制通道。起始地址是機器回應控制器的第一個通道。請務必仔細檢查以確保沒有重疊的通道，以便正確控制機器。

DMX 通道功能

通道模式 1	DMX 數值範圍	功能
雪花輸出量	0 – 5	關閉
	6 – 255	輸出 1 – 100%
通道模式 2	DMX 數值範圍	功能
風扇轉速	0 – 5	風扇 20%
	6 – 255	風扇 21 – 100%

RDM 控制說明

SW-300 雪花機配有 RDM 功能，讓使用者可以透過 RDM 功能進行控制，可以設定、監控、管理。
有關 RDM 參數，請參見下表：

Value	RDM Parameter ID's	GET Allowed	SET Allowed
0x0001	DISC_UNIQUE_BRANCH		
0x0002	DISC_MUTE		
0x0003	DISC_UN_MUTE		
0x0030	STATUS_MESSAGE	O	
0x0050	SUPPORTED_PARAMETERS	O	
0x0051	PARAMETER_DESCRIPTION	O	
0x0060	DEVICE_INFO	O	
0x0070	PRODUCT_DETAIL_ID_LIST	O	
0x0080	DEVICE_MODEL_DESCRIPTION	O	
0x0081	MANUFACTURER_LABEL	O	
0x0082	DEVICE_LABEL	O	O
0x00C0	SOFTWARE_VERSION_LABEL	O	
0x00E0	DMX_PERSONALITY	O	O
0x00E1	DMX_PERSONALITY_DESCRIPTION	O	
0x00F0	DMX_START_ADDRESS	O	O
0x0400	DEVICE_HOURS	O	
0x1000	IDENTIFY_DEVICE	O	O

W-1 無線發射器使用說明

*W-1 無線發射器

- 發射器：使用 DC 12V 電池
- 接收距離：在無障礙物的開放空間，有效距離為 50 公尺。
實際狀況根據障礙物多寡，保守距離約為 10-25 公尺。

- W-1 無線發射器配有兩個按鈕，可以用來啟動、關閉機器。

*無線接收器

- 接收器在經過測試之後會固定在機器後板上，請勿嘗試將它拔除。



W-1 無線發射器



無線接收器

按鈕	功能
[A]	啟動雪花量輸出
[B]	關閉雪花量輸出

設定功能

從接收器中可以配對或刪除發射器。每個接收器最多可配對 5 個發射器。
請按照以下步驟從接收器配對或刪除發射器。

步驟 1: 啟動 SW-300 雪花機

步驟 2: 當顯示 “Wireless Setup” 時，請按下發射器上的按鈕 [A]。

步驟 3: 當顯示 “Wireless Setup Ok”，表示設定過程已完成。

請注意：

- 無線設定畫面僅在無線開啟時顯示。
- 請在機器開機 15 秒內配對發射器。15 秒後機器將關閉，需重新啟動電源完成配對。

更換 W-1 無線發射器電池

如果無線控制器的有效控制距離縮短，可能是電池的電力不足，需要更換。

請將 W-1 發射器背後的三個螺絲旋開，打開背蓋，使用同樣是 27A/12V 的電池更換。

SC-3 有線遙控操作 (選配)

使用控制器操作機器時，請將 SC-3 控制器連結位於機器背面的 4 Pin 麥克風插座。

SC-3 配有 3 個按鈕及 2 個旋鈕，可控制啟動/關閉機器、設定及調整風扇轉速及雪花輸出量。



按鈕/旋鈕	功能
[VOLUME]旋鈕	調整幫浦輸出量
[FAN]旋鈕	調整風扇轉速
[PRIMING]黃色按鈕	將幫浦輸出量與風扇轉速設定為最大
[POWER]紅色按鈕	開啟/關閉 SC-3 控制器
[MAX FAN]綠色按鈕	將風扇轉速設定為最大

請注意：

左側黃色的[PRIMING]按鈕主要是機器啟動時使用，換一個新的油桶或是添加雪花水後，幫浦可能因為油管中有空氣而無法順暢的運作，此時可以使用此功能將風扇與幫浦的輸出量設定到最大，藉此將油管中的空氣排出。右側綠色的 [MAX FAN]按鈕是當需要清除噴嘴殘留的雪花水時使用。兩個按鈕按下後，會取代[VOLUME]旋鈕的輸出量設定。

實體安裝

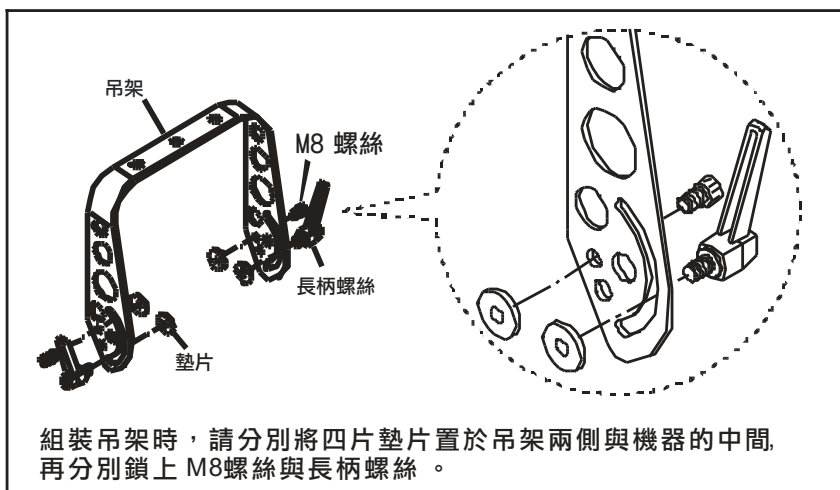
注意事項

- 使用安裝支架或吊掛夾具來安裝機器。
- 確認安裝處、固定接頭以及吊掛索具可以支撐機器 10 倍以上的重量。
- 確認周邊沒有任何易燃的材料。
- 安裝機器時，請務必使用可以支撐機器 10 倍重量以上的安全繩索。
- 請將機器安裝在通風良好的地方。
- 在選擇機器的安裝地點時，請將定期維護的方便性納入考量。

可調安裝吊架

鬆開螺絲調整安裝吊架，將機器設置到所需的角度的並旋緊螺絲即完成調整。

下圖演示如何調整安裝吊架。



雪花水的使用

SW-300 雪花機僅能使用 SL-N/SL-H 雪花水。機器使用 SL-N/SL-H 雪花水進行測試與校正，使用此雪花水將產生最佳的雪花效果。若使用其他的雪花水，將導致機器故障並使保固失效。



SL-N 雪花水

- SL-N 新配方雪花水與 SL 及 SL-A 相比，產生的雪花片較細緻、輕盈乾燥，且雪花量較大。
- 適合室內及室外使用。



SL-H 極致乾燥雪花水

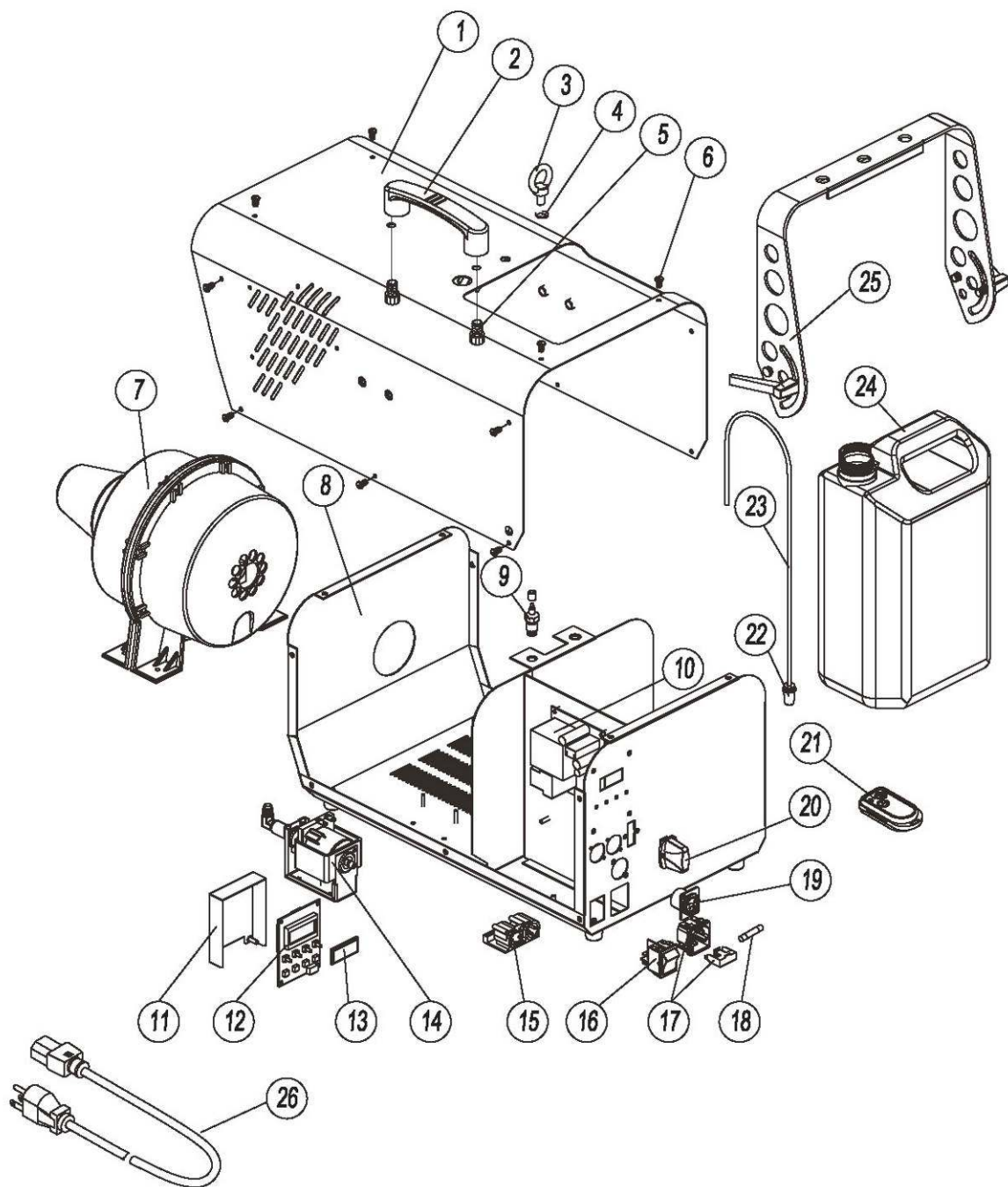
- SL-H 所產生的雪花是 Antari 雪花水系列中，量最多、最乾燥、重量最輕
- 適合室外使用。

維護與保養

- 請保持機器清潔，不要讓機器髒汙。
- 可以使用空氣壓縮機、吸塵器或軟刷除去機器上的灰塵。
- 機殼可使用濕布擦拭。
- 建議每月至少讓機氣溫機並運轉一次，以保持機器處於最佳的性能和輸出條件。
- 機器上過多的灰塵、液體殘餘累積的髒汙，會降低機器工作性能，並導致散熱不良。
- 在操作後，請將純水注入幫浦系統至少 1 至 2 分鐘。這將有助於清除剩餘的雪花水並防止幫浦於下次使用時出現故障。

產品規格

- 電壓	美規 : AC 100-120V, 50/60Hz 7.5A 歐規 : AC 220-240V, 50/60Hz 3.8A
- 功率	880 瓦
- 耗油量	280 毫升/分鐘 (100% 輸出量)
- 油桶容量	5 公升
- 適用雪花水	Antari SL-N 新配方雪花水 Antari SL-H 極致乾燥雪花水
- 適用溫度	5°C - 40°C
- 控制方式	DMX 512 定時 手動 無線控制器
- DMX 頻道	占用 2 頻道
- 連接座	IEC (主電源) XLR 5-pin (DMX)
- 選擇性配件	SC-3 有線控制器
- 尺寸	長 500 寬 276 高 265.8 mm (高 332.4mm 含吊架)
- 重量	11.5 kg



SNOW WIRELESS **SW-300**

- | | | | |
|---|----------------------|---|---|
| ① | Steel Case/Cover | ⑮ | P.C Board(DMX)include 3pin Socket |
| ② | Handle | ⑯ | Rocker Switch/Power |
| ③ | Safety Ring M8 Screw | ⑰ | Power Inlet Socket& Fuseholder |
| ④ | Washer | ⑱ | Fuse T10A/250V |
| ⑤ | M8x12L Screw | ⑲ | Control Outlet Socket(4 Pin XLR for remote) |
| ⑥ | M4x8L Screw | ⑳ | W-1 Wireless Receiver |
| ⑦ | Air Blower | ㉑ | W-1 Wireless Controller |
| ⑧ | Steel Case/Base | ㉒ | Filter 4L |
| ⑨ | Adaptor With Nut | ㉓ | Pu Tube 4MM |
| ⑩ | Main P.C Board | ㉔ | Tank |
| ⑪ | Steel Case/Cover | ㉕ | Hanging Bracket(Group) |
| ⑫ | Control P.C Board | ㉖ | Cable & Plug |
| ⑬ | L.C.D COVER | | |
| ⑭ | Pump | | |



SW-300 SNOW WIRELESS



C08SW3002