



DNG-250 Low Fog Generator

User Manual

- ENGLISH
- 中文



DNG-250
LOW FOG GENERATOR

DNG-250 LOW FOG GENERATOR

Thank you for choosing Antari's DNG-250 Low Fog Generator. The machine has some terrific new features on top of the ones of its previous version DNG-200. With the 3.5 TFT color touch panel, users can operate more easily. The dimension is exactly the same as DNG-200, but the output volume and continuity are comprehensively increased, hence a total up-grade in performance. No CO₂ is needed for DNG-250 Low Fog Generator; therefore, there's no risk to human body nor environment. DNG-250 is a real green effect machine.

Please follow these operation, safety and maintenance instructions to ensure a longer and safe life of your DNG-250 Low Fog Generator.

Pay attention to all warning labels and instructions printed on the exterior of the machine.

Safety Instructions

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 indicated 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 .
- 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.

Unpacking and Inspection

Open the shipping carton and verify that all equipment necessary to operate the system has arrived intact. If any shortage or damage due to transportation, please contact your Antari dealer and send back with original packaging for inspection. The shipping carton should contain the following items:

- DNG-250 Low Fog Generator

- Two power cords for connecting to Neutrik PowerCon connectors.
- 3M fog conducting hose
- User's manual (item 2-4 placed in the compartment on the top of the machine)
- Water collection tray (preinstalled in the machine)
- 3M PU tube, 6mmØ

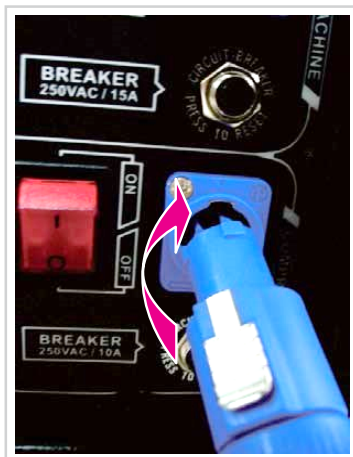
Setup

- The wheels at the bottom of the DNG-250 help to move the machine; wheel fixing mechanisms are located at the diagonal line. Position the machine at a spot, press down the fixing mechanism to prevent it from moving. To move the machine, press the opposite side of the fixing mechanism to release it. Please note that the machine is not allowed to place on a slope due to its big size. (refer to figure 1)



Figure

- Please aim the key on the PowerCon terminal of the power cord to the slot of the connector on the machine, plug it in and turn it about 10° clockwise until the power cord is completely fixed. The upper power cord is for the fog generator and the bottom one is for the compressor. (refer to figure 2 and 3)



Figure



Figure

- Before connecting the machine to power supply, make sure to check the needed voltage and watt indicated on the metal plate of the machine.
- Connect the machine with the black fog conducting hose; it is a three-meter pipe. The length of the pipe can be adjusted to fit the actual need. (refer to figure 4)
- Fill Antari FLL Low Fog Effects Fluid to the tank, tighten the tank cap. (refer to figure 5)



Figure4



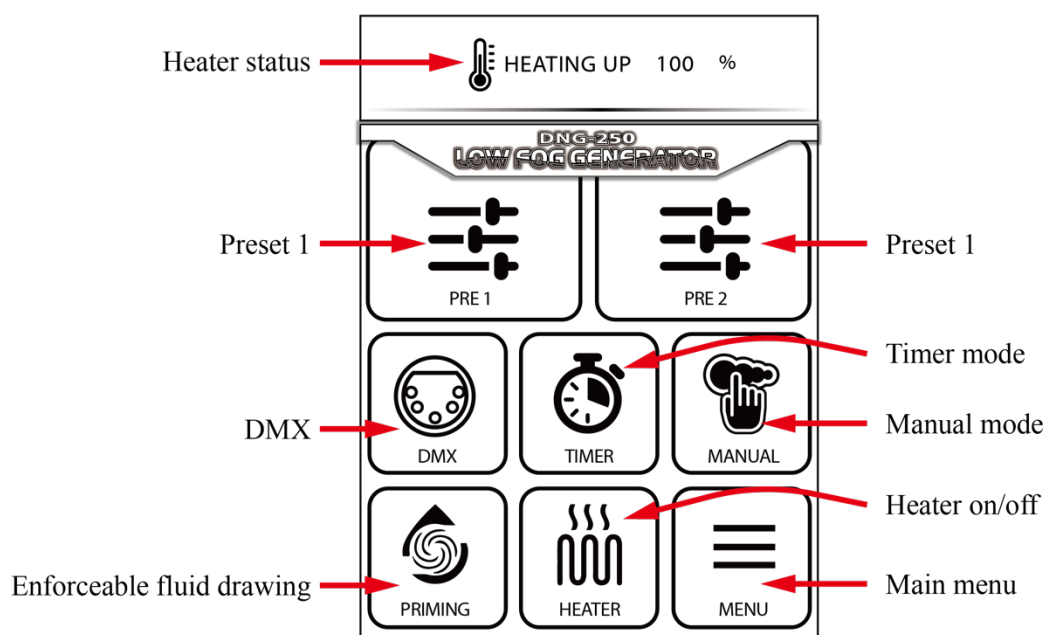
Figure5

Operation

1. After confirming the voltage, connect the power cord to a grounded outlet then turn on the lower power switch and then the higher one. The warmup starts now, and the TFT touch panel will show the percentage of the whole warmup process until 100% that the warmup is completed.
2. TFT touch panel introduction :

2-1

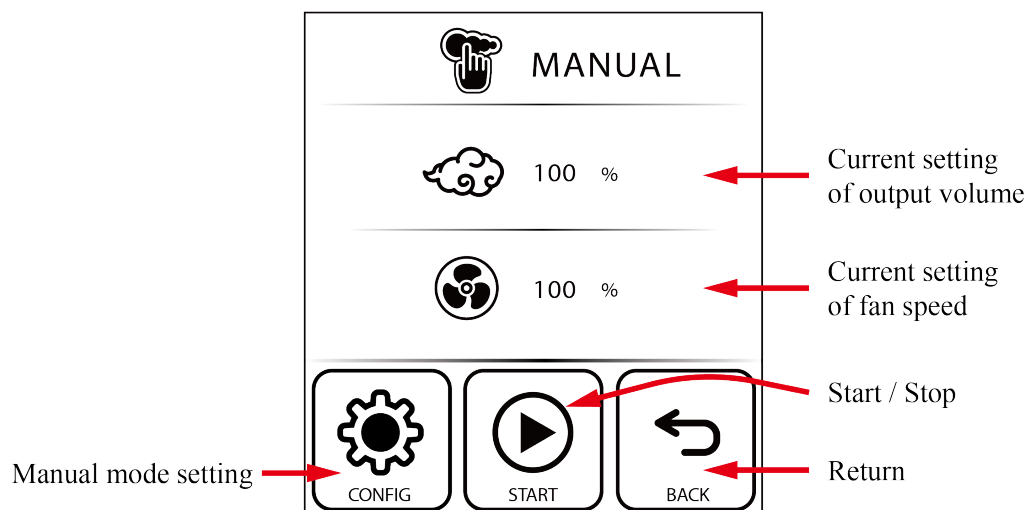
Main Menu



2-2



Manual mode



2-2-1



Manual mode setting :



Nonstop Mode

Continuous mode ON / OFF



Output Level

Output volume 20% - 100%



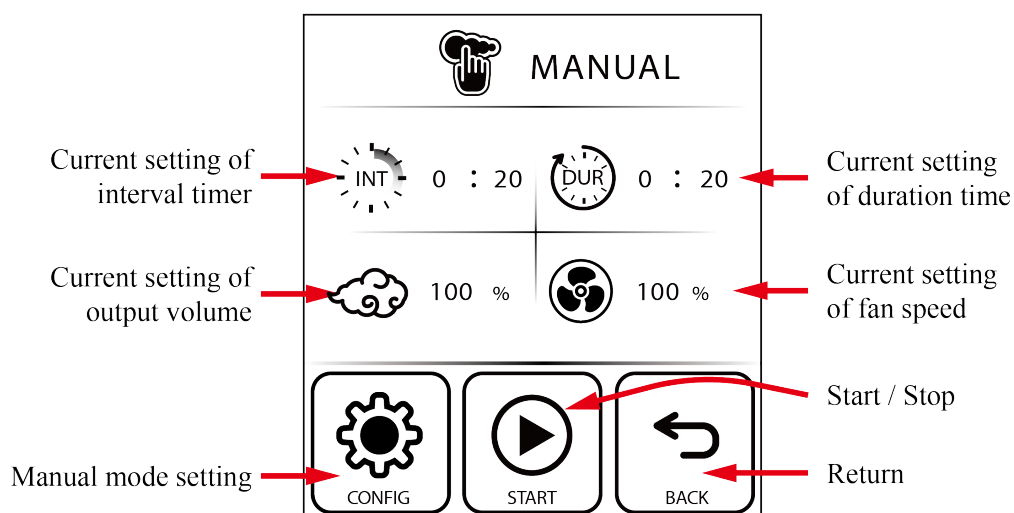
Fan Level

Output fan 20% - 100%

2-3



Timer mode :



2-3-1



Timer mode setting:

	Interval	Interval 5 secs – 200 secs
	Duration	Duration 5 secs – 200 secs
	Nonstop Mode	Continuous mode ON / OFF
	Output Level	Output volume 20% - 100%
	Fan Level	Output fan 20% - 100%

2-4



DMX:

Heater temperature status

100 %

DMX status

DMX

DMX address :

Address : 1

Manual mode setting

CONFIG

Return

BACK

2-4-1

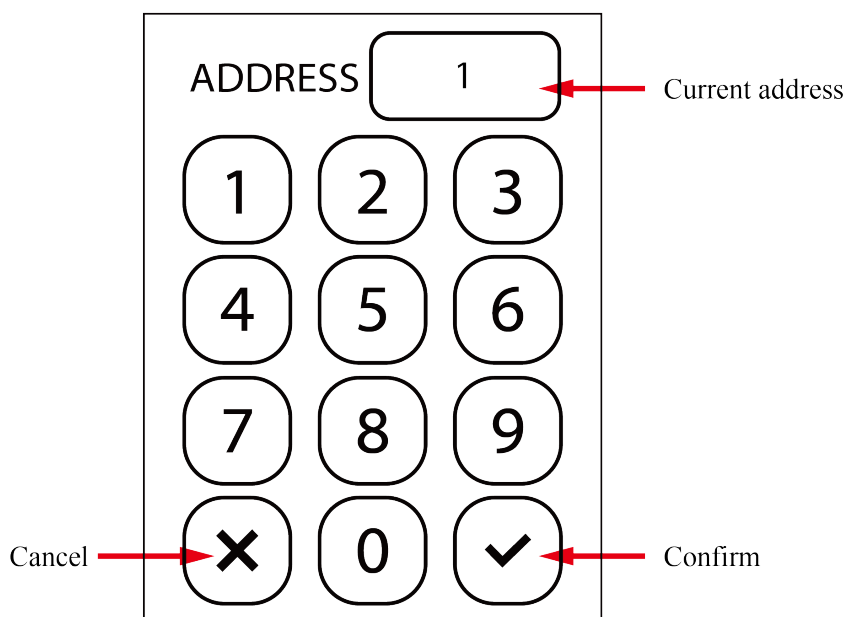


DMX Setting:



Address

DMX address setting

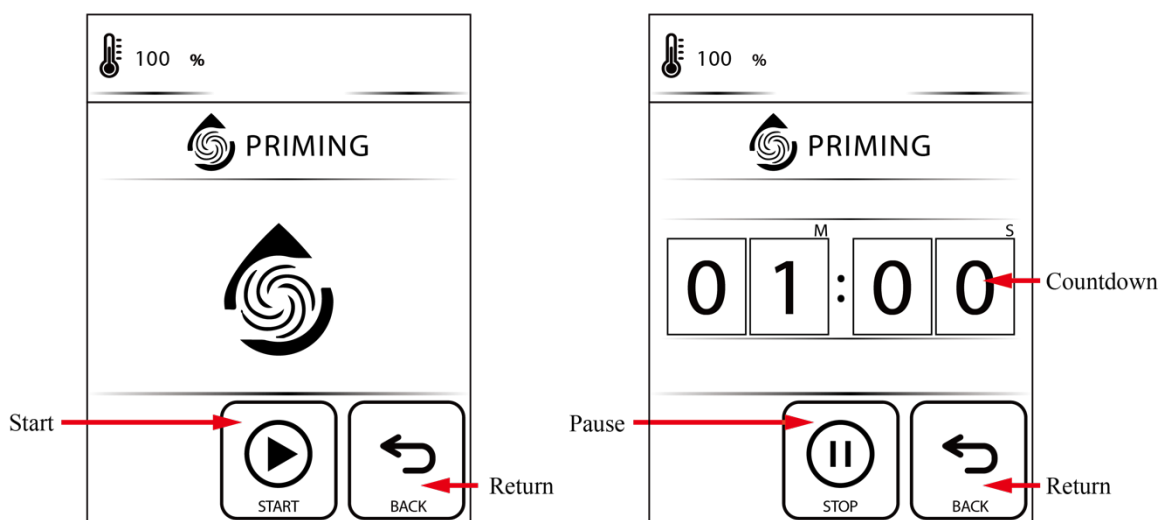


2-5



Enforceable fluid drawing:

When the tank is refilled with fog fluid, use this to draw the fluid. Press “Pause” once the output is back to avoid damp in fog. Default duration of the fluid drawing is 1 min.

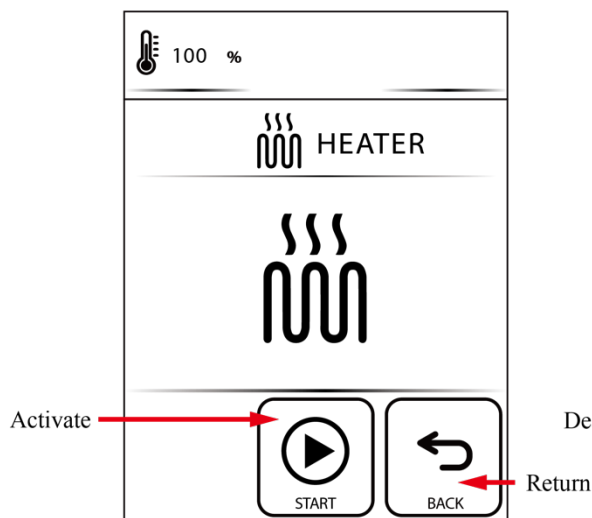


2-6

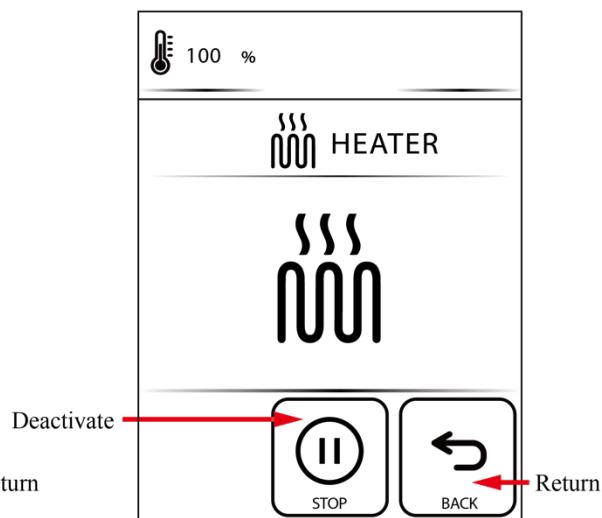


Heater : Heater can be activated or deactivated manually.
Default setting is activated.

Heater activated



Heater deactivated



2-6



Main menu :

2-7-1



DMX Setup

DMX setting

DMX address setting. Please refer to page 8 for detail.



Address

2-7-2



Information

Basic information



Software Version

Software version



Operating Voltage
Setting

Current working voltage (settable)



Device Hour

Usage time (from power on)

2-7-3



Setting

Setting



LCD Backlight

LCD brightness (Low/Medium/High/Auto)
*LCD light will shut down in 1 min when
“Auto” is selected.



Auto Start

Action before shut down will be
automatically proceeded after warming up
is finished.



Factory Reset

Restore default setting.

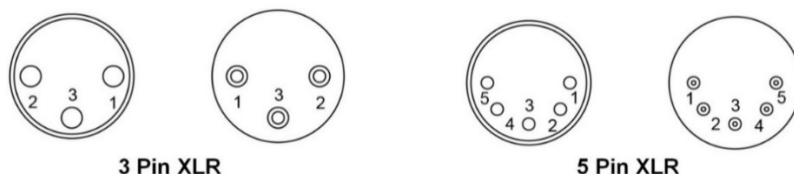


Language

Chinese/English

**DMX Connector Pin Assignment & instruction**

- 3-1** The machine provide 3 or 5 pin XLR connector for DMX connection. Diagram below indicate pin assignment information.



Pin	Function
1	Grounding
2	Data -
3	Data +

3-2 DNG-250 DMX instruction

DNG-250 low fog generator has built-in DMX 512 function with 3 Pin and 5 Pin sockets to choose from. After connecting to DMX, TFT touch panel can't be used, and all actions are controlled by DMX. Only DMX address can be entered with TFT touch panel.

3-3 DMX 512 settings

Function	Figures	Meaning
Output Volume	0 - 4	Off
	5 - 255	20 - 100%
Output Fan	0 - 4	Off
	5 - 255	20 - 100%

RDM Function**4-1 RDM (Remote Device Management) Function**

DNG-250 is equipped with RDM function which allows users to control the unit through devices with RDM ANSI E1.20 protocol. This is a protocol enhancement that allows bi-directional communication between a controller and attached RDM compliant devices over a standard DMX line. Users may set, monitor and manage the RDM supported devices and equipment in DMX network.

4-2 RDM Directory

RDM PID	Value	GET Allowed	SET Allowed
DISC_UNIQUE_BRANCH	0X0001		
DISC_MUTE	0X0002		
DISC_UN_MUTE	0X0003		
STATUS_MESSAGE	0X0030	O	

SUPPORTED_PARAMETERS	0X0050	O	
*PARAMETER_DESCRIPTION	0X0051	O	
DEVICE_INFO	0X0060	O	
PRODUCT_DETAIL_ID_LIST	0X0070	O	
DEVICE_MODEL_DESCRIPTION	0X0080	O	
MANUFACTURER_LABEL	0X0081	O	
DEVICE_LABEL	0X0082	O	O
LANGUAGE_CAPABILITIES	0X00A0	O	
LANGUAGE	0X00B0	O	O
SOFTWARE_VERSION_LABEL	0X00C0	O	
DMX_PERSONALITY	0X00E0	O	O
DMX_PERSONALITY_DESCRIPTION	0X00E1	O	
DMX_START_ADDRESS	0X00F0	O	O
SENSOR_DEFINITION	0X0200	O	
SENSOR_VALUE	0X0201	O	
DEVICE_HOURS	0X0400	O	
IDENTIFY_DEVICE	0X1000	O	O

Other important notes

- 5-1** A water collection tray is equipped at the rear of DNG-250. When the compressor is running for condensed fog, some water drops will flow into the tray. Please check the water level of the tray routinely and drain it on time to prevent overflow. (refer to figure 6).
- 5-2** If the machine is to be used for a long time or the water drops cannot be checked momentarily, the water collection tray can be removed and a 6 mm PU hose can be connected to the water draining hole located at the top of the water collection tank to directly drain out the water drops. After completing the draining, push up the upper red button to remove the hose. (refer to figure 7)



Figure 6

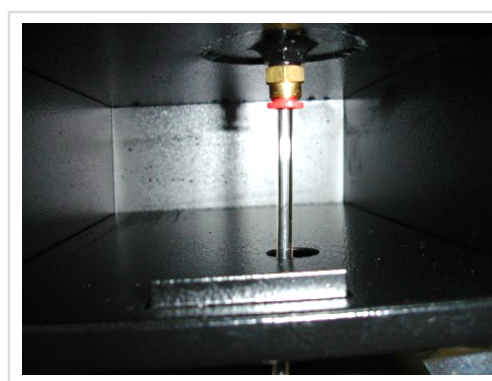


Figure 7

- 5-3** A black square metal mesh is located at the back of the machine. This is the air inlet of the fan. Please do not block the inlet and clean it routinely to keep the cleanliness.

- 5-4** If the fog volume is too low, the machine generates noise during operation or the fog cannot be smoothly sprayed, please turn off the power immediately and check if the fog fluid is sufficient, whether the external fuse, controller connection or power supply has any problem. If none of the above shows any problem, insert the power plug again. If the machine still cannot normally operate, please check whether the hose connecting to the fog fluid tank is blocked, and if any fluid is flowing. If the cause cannot be identified, please do not allow the machine to operate to avoid damage. Turn off the machine Immediately and let it cool down. Please contact an Antari dealer or a designated service center. Do not disassemble the machine by yourself.
- 5-5.** After using the DNG-250 for a long time, there may be residue on the floor which could be a possible cause of danger. Please note the material of the floor and pay special attention to the safety of persons walking on it.
- 5-6.** The DNG-250 Low Fog Generator does not use dry ice. It is very environmental friendly and safe. However, the output fog is easily to be blown away by wind. Please note the air flow's impact from fan or air conditioner.

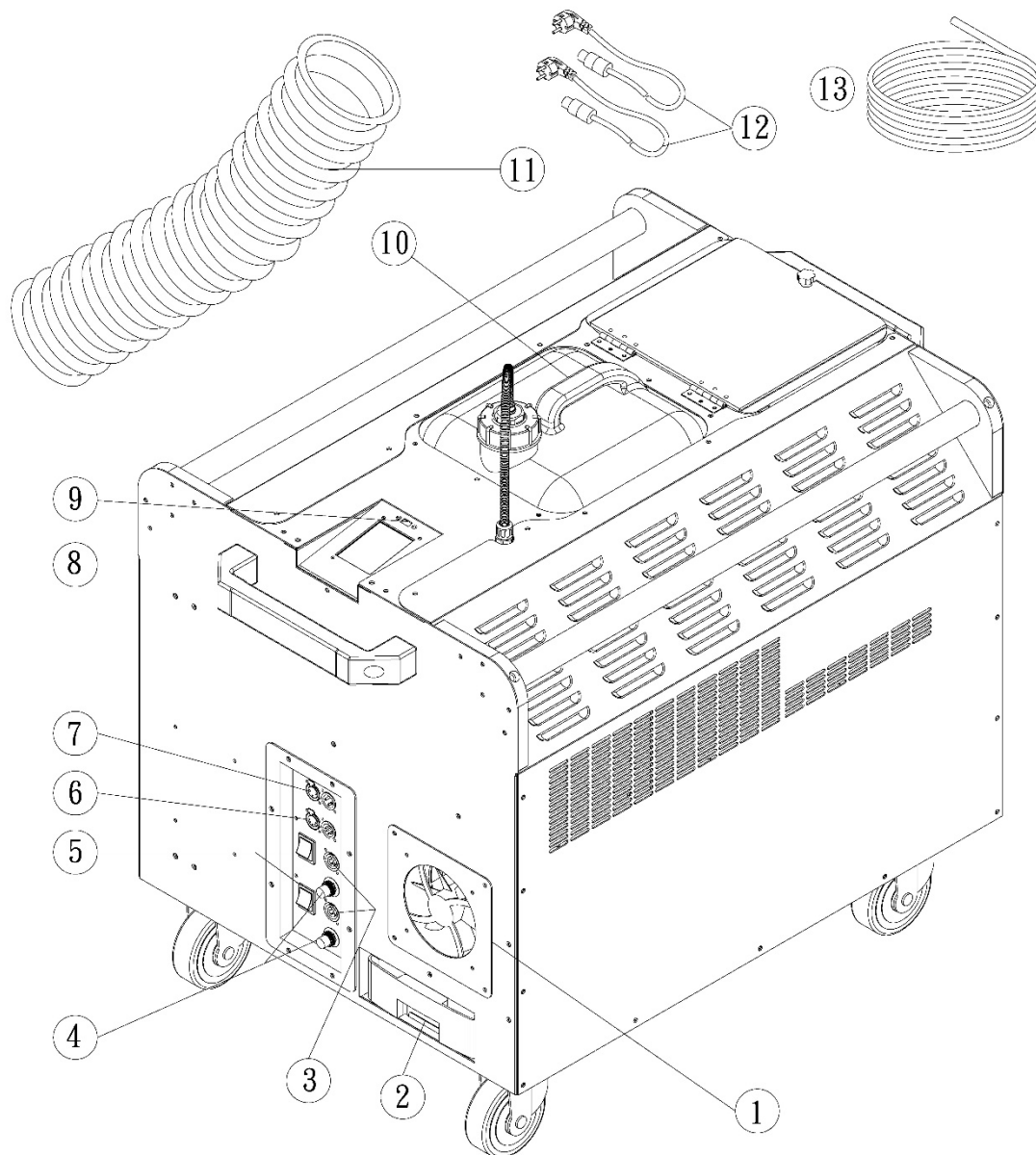
Maintenance of the Machine

- 6-1** Cleaning your fog machine regularly will help reduce costly replacement and repair charges.
- 6-2** Do not allow the fog fluid to become contaminated. The cap should be on the tank at all times.
- 6-3** Prior to storing the machine for a longer period, clean it and drain all fog fluid from the tank. Disconnect and store the fog pipe and power cord. Store the machine and all parts into the parts tank located at front of the machine. Warm up the machine once a month, to protect it from moisture.
- 6-4** Store the machine cool and dry

Technical Specifications

Input Voltage	US Model : AC 100 - 120V, 50 / 60 Hz EU Model : AC 220 - 240V, 50 / 60 Hz
Refrigerant	120V R- 404A , 1.90LB (0.86Kg) 240V R- 404A , 1.90LB (0.86Kg)
Start Current	120V / 67.5A 240V / 36.0A
Rated Current	120V / 16.0A 240V / 7.3A
Fog Power Consumption	120V / 1600W 13.5A 240V / 1600W 7.0A
Warm-Up Time	6 Minutes (approx)
Fluid Consumption	100 ml/min (100% Output)
Fluid Tank Capacity	10 Liters (2.64 Gallon)
Compatible Fluid	Antari FLL Low Fog Effects Fluid
Ambient Temp. Range	5°C - 40°C (41°F - 104°F)
Output	120 m ² / min
Control Methods	Manual Timer DMX 512
DMX Channels	2 Channel
Interface	Neutrik powerCON (Power) XLR 3-Pin & 5-Pin (DMX)
Included Accessories	C0DNG0600 3 Meter Fog Conducting Hose
Optional Accessories	FDNG-250 Flight Case FTA-200 Fog Conducting Hose Adaptor C0DNG0600 3 Meter Fog Conducting Hose
Dimension	L922 W609 H890 mm L36.30 W23.98 H35.04 inch
Weight	130.0 kg 286.60 lbs

Please save this user manual carefully



Spare Parts of **DNG-250**
LOW FOG GENERATOR

- | | |
|-------------------------|-----------------------|
| 1. Fan | 2. Catchment |
| 3. Power Socket | 4. Resetable Fuse |
| 5. Rocker Switch | 6. P.C Board DMX 5Pin |
| 7. P.C Board DMX 3Pin | 8. LCD-TFT |
| 9. USB | 10. Tank & Tank Cap |
| 11. Fog Conducting Hose | 12. Power Cord & Plug |
| 13. PU Tube | |



For current product information visit Antari at:

www.antari.com / www.antari.com.tw

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