Antari®
FOG MACHINE

USER MANUAL

ENGLISH

V1.0



Z-350

Product code: 60760

Fazer Machine

Imported by Highlite International B.V.

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Z-350 Series®

1. Introduction

Please read all the user manual before operating the machine, and place the manual where the user can refer to it at all times. The manual includes how to install and operate the machine under safe conditions and explains all the labels printed on the machine. If you encounter any problem, contact your local Antari dealer for assistance immediately.

2. Safety Information

DANGER	If the danger is not avoided, it will cause death or serious injury
WARNING	If the warning is not heeded, it can cause death or serious injury.
CAUTION	If the precaution is not taken, it may cause minor or moderate injury.

DANGER

- Must connect the machine to the correct rated voltage or it might lead to an electrical shock or a burn and may cause serious consequences.
- Must connect the machine to a protected circuit and ensure it is properly grounded to avoid the risk of electrocution. For grounding instruction, please refer to Appendix I on page 12.
- Do not operate the machine with a bundled power cord, it could lead to a fire hazard.
- When operating the machine, do not point at people, animals, or fire.

WARNING

- The nozzle is extremely hot, do not touch it.
- Please operate the machine on a flat, level hard and well ventilated surface area, reserve at least 50cm space around the machine and make sure there is no flammable gas or material nearby.
- Do not disassemble, repair or modify the machine, it may cause damages, malfunction, risk of electrical shock or result in fire.
- The machine can only be operated by adults or professionals, is not intended for use by person with reduced physical sensory, mental capabilities, or lack of experience and knowledge including children.
- Do not leave the machine running unattended, make sure all powers are off when leaving.
- Children should be supervised to ensure that they do not play with the machine.
- Do not use the machine upside down or tilt it, it might cause damages or malfunction.
- Please store the fluid inside in a well ventilated area without direct sunlight and keep out of reach of children. In case of eye contact or accidentally swallow the fluid, please seek medical attention immediately.

CAUTION

- Keep the machine dry at all time. The machine is not waterproof, do not expose the machine to water, rain, or moisture environment.
- Please make sure the power outlet is not damaged or loose before plug in the power cord.
- If the power cord is damaged, it must be replaced by Antari or its local dealers, otherwise the warranty will be void.
- Before transporting the machine, please make sure the fluid is drained and tank is empty. (Recommend using original package)
- The machine is for indoor use only.
- Do not operate the machine in any area with unstable voltage.
- If you experience strange sound or malfunction, turn off the power and unplug the power cord immediately and contact your local Antari dealer for assistant.
- Do not contact any moving part.
- Only use accessories recommended or sold by Antari.
- Please make sure the power is off when not using the machine and unplug the power cord if not intend to use for a long period of time.
- To disconnect, turn all controls to the off position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Unplug from outlet before servicing or cleaning.
- Do not operate the machine with a damaged cord or plug, or after the machine malfunctions or is dropped or damaged in any manner. Return machine to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
- To ensure the lifespan of the machine, please only use the fluid manufactured by Antari, do not use other fluid or additive, otherwise it may clog the heater and cause malfunction.

Before operating the machine, please read all warning labels on the machine, description as below;

Top Cover Printing
PLEASE USE THE ANTARI FLG FLUIDS ONLY

WARNING
HOT NOZZLE!
KEEP AT LEAST 50 CM DISTANCE

Rear Cover Printing
WARNING!
DISCONNECT POWER BEFORE CHANGING FUSE.
USE ONLY WITH ADULT SUPERVISION.
DO NOT OPERATE WITHOUT LIQUID.
FOR INDOOR USE ONLY. KEEP DRY.
NO USER SERVICEABLE PARTS INSIDE.

LIQUID
PLEASE USE ANTARI FLG FLUID ONLY

ATTENTION!
NEVER ADD FLAMMABLE SUBSTANCES

CAUTION
TO REDUCE THE RISK OF FIRE, REPLACE ONLY WITH SAME SIZE AND TYPE OF FUSE

3. Package Contents & Inspection

Immediately upon receiving the machine, carefully unpack the carton, check the content to ensure it is the correct model and all parts are included. If any part appears to be damaged or missing during transportation, please contact your local dealer and return in original package for inspection.

3.1. Package Contents

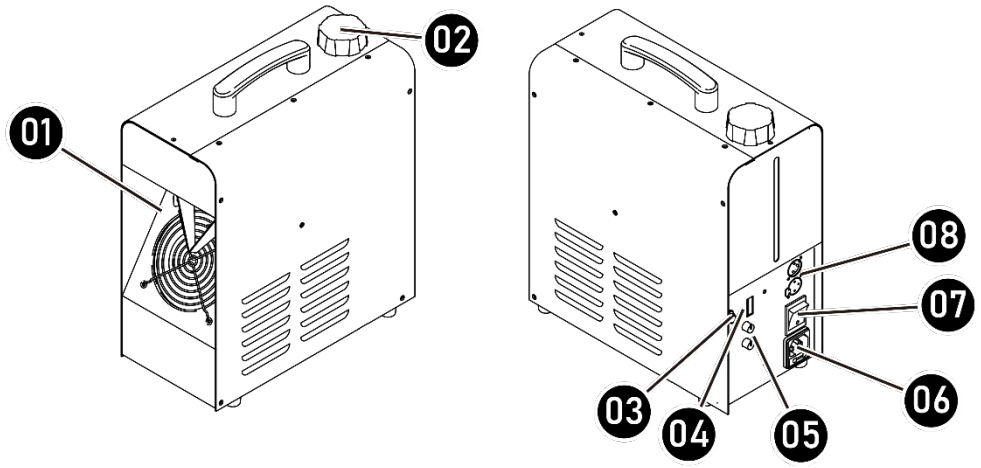
1 x Z-350 Fazer Machine
1 x IEC Power Cable

3.2. Optional Accessories

Item Code	Description
Z-3	Cable Remote
FZ-350	Flight Case
FX-4	Flight Case

4. Machine Details

Figure 1



01. Nozzle	05. Rotary Knob
02. Fluid Tank Cap	06. IEC Connector
03. Cable Remote Connector	07. Power Switch
04. Dip Switch	08. XLR 3-Pin Connector (DMX)

5. Technical Label Information

Please read the technical label information on the back of the machine before operating it.

Figure 2



1. Model Name	5. Breaker/Fuse
2. Input Voltage	6. QR CODE for User Manual
3. Frequency	7. Serial No.
4. Rated Power	

6. Fog Fluid

CAUTION
Always turn off the power before filling the fluid tank. Do not add flammable liquid to the fluid tank. If fluid gets inside the machine, please contact your local Antari dealer for assistant.

- Only the fog fluid manufactured by Antari can be used, do not mix or dilute the fog fluid. Due to improper storage or using other fluid might cause malfunction.
- The machine is tested and calibrated with the specific fog fluid to get the best performance.
- Please empty the fluid in the tank before switching to another fluid to avoid mixing.
- The warranty on your haze machine will be void if you use fog fluid not manufactured by Antari.

7. Setting and Manual Operation

WARNING
Machine falling off might cause serious injury, please make sure it is secure and firm on the overhead.

01) Place the machine on a flat, level hard and well ventilated surface area and reserve at least 50 cm open space around the machine, and make sure there is no flammable gas or material nearby;
02) Fill the fluid tank with Antari approved fog fluid, and make sure the tube is not twisted;
03) Connect the machine to the power outlet. Please read the technical label (see 5. Technical Label Information on page 7) on the back of the machine and make sure the power outlet is the correspond to the rated voltage for the machine;
04) Turn on the machine, warm up process takes approximately 4.5 minutes. Once the machine has reached operating temperature, the Status LED indicator light will be "Solid Green", now the machine is ready for operation;
05) To start fazing, find "SMOKE" and "FAN" rotary knob and turn to adjust the output according to your needs;
06) To stop fazing, turn both rotary knobs to far left;
07) To turn off the machine, please make sure the machine is not operating then turn of the power. If you will not use the machine a long period of time, please remove the power cord.

8. Control Settings

Z-350 Fazer Machine can be operated in the following modes. The machine can only accept 1 type of signal at a time.

- Manual
- DMX512
- Cable Remote

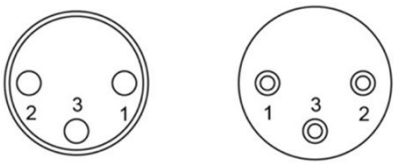
8.1. Status Message

LED Status	Description
Flash Green	Machine is heating up
Flashing Green (3 Seconds)	Self-cleaning
Solid Green	Machine is ready for operation
Flashing Amber	Producing faze
Solid Amber	DMX mode
Solid Red	Heater overheated, machine can't be operated
Flashing Red/Green	Heater can't heat up

9. DMX Connection

9.1. DMX Connector Pin Assignment

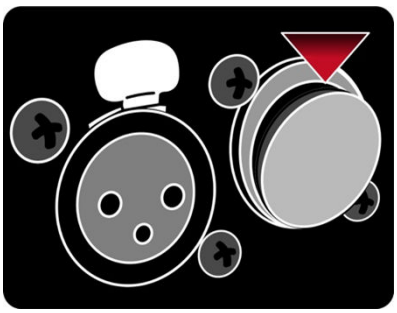
This machine has a XLR 3-Pin connector for DMX connection. The diagram below indicates pin assignment information:



3 Pin XLR

Pin	Function
1	Ground
2	Data-
3	Data+

**There is a protection cap on DMX IN, please remove it with your finger before operation.



9.2. DMX Channel Function

Channel Mode		DMX Value Range	Function
Channel 1	Faze Output Level	0 – 4	Faze Off
		5 – 255	Faze Output 1 – 100%
Channel 2	Fan Output Level	0 – 4	Fan 20%
		5 – 255	Fan Output 21 – 100%

9.3. Addressing

Each device occupies 2 channels. To ensure that the control signals are properly directed to each device, they require addressing. This is to be adjusted for every single device by changing the DIP-switches as set out in the table below. The starting address is defined as the first channel from which the device will respond to the DMX controller.

Please make sure that you do not have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX data link.

Occupation of the DIP-Switches:

DIP	1	2	3	4	5	6	7	8	9
Ch.	1	2	4	8	16	32	64	128	256

Setting the DMX-Starting Address	DIP-Switch No.	1	2	3	4	5	6	7	8	9
Device Number & Channels	Staring Address	1	2	4	8	16	32	64	128	256
Device 1 – Channel 1	On	▲								
	Off		▽	▽	▽	▽	▽	▽	▽	▽
Device 2 – Channel 2	On		▲							
	Off	▽		▽	▽	▽	▽	▽	▽	▽
Device 3 – Channel 3	On	▲	▲							
	Off			▽	▽	▽	▽	▽	▽	▽
Device 4 – Channel 4	On			▲						
	Off	▽	▽		▽	▽	▽	▽	▽	▽
Device 5 – Channel 5	On	▲		▲						
	Off		▽		▽	▽	▽	▽	▽	▽

10. Z-3 Cable Remote (Optional)

Figure 3



Z-3 Cable Remote is an optional accessory for Z-350 Fazer Machines, please see instruction below;

01) Plug the cable remote to the connector on the back of the machine, red indicator light on (Power);
02) Press the switch (Orange Indicator Light on); turn the knob to adjust the output to start fazing;
03) Press the switch (Orange Indicator Light Off), or turn the knob to far left to stop fazing.

** If you encounter any problem, please contact your local Antari dealer for assistance.

11. Service and Maintenance



DANGER
Disconnect the power cord before starting maintenance operation

- Always keep the machine clean and dry.
- Can use an air compressor, a vacuum or a soft brush to remove the dust on the machine.
- Can use a slightly damp cloth to clean the casing.
- Before storing or after using the machine, please make sure the fluid is completely drained and keep dry.
- It is recommended to run the machine at least once a month in order to maintain its best performance and output condition.
- Excessive dust and build up liquid residue will reduce the performance and cause overheating.

Fuse Specification
110V – 120V = T7A250V
220V – 240V = T4A250V

12. Technical Specifications

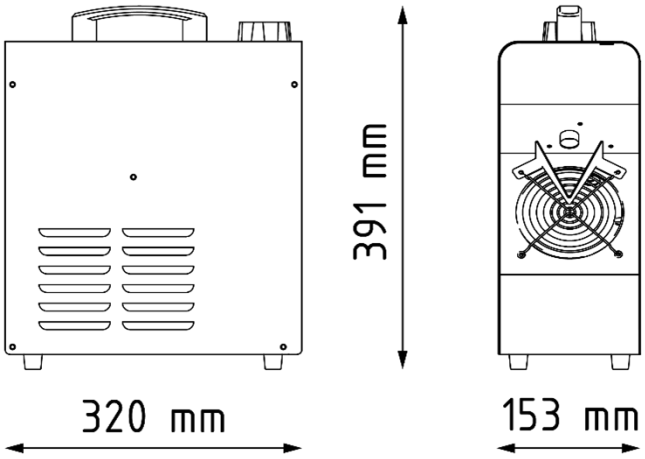
	Z-350
Input Voltage	US Model : AC 100 - 120 V, 50 / 60 Hz 6.0 A EU Model : AC 220 - 240 V, 50 / 60 Hz 3.5 A
Rated Power	120 V 700 W 240 V 750 W
Warm-Up Time	4.5 minutes (approx.)
Fluid Consumption	3 ml/min (100% output)
Fluid Tank Capacity	1.3 Liters (0.34 gallons)
Compatible Fluid	FLG, FLH
Operating Time	7 hrs (100% ouput)
Ambient Temp. Range	0°C – 40°C (32°F – 104°F)
Control Methods	Manual, DMX512, Cable Remote (Optional)
Interface	XLR 3-Pin Connector (DMX), IEC (Power)
DMX Channels	2 Channel
Included Accessories	N/A
Optional Accessories	Z-3 Cable Remote, FZ-350 Flight Case, FX-4 Flight Case
Dimensions	L 320 W 153 H 391 mm (L 12.60 W 6.02 H 15.39 inch)
Weight	8.7 kg (19.18 lbs.)

13. Warranty Disclaimer

We guarantee the merchandise manufactured by us to be free from defect in material and workmanship for a period of one year. Our obligation and liability under this warranty shall be restricted to repair or replacement at our factory or local authorized dealer. We assume no liability of the products that are improperly used or used for any purpose other than that for which they are specially designed. This warranty shall not apply to any merchandise which has been repaired, altered or assembled outside our factory in any way so as in our judgment to affect its performance, nor which has been subjected to misuse, negligence, or accident nor to any merchandise operated contrary to our printed instructions. We will not allow or be liable of any loss or any damages of any kind in connection with the use, sale, or repair of any merchandise purchased from us.

14. Machine Dimension

Figure 4

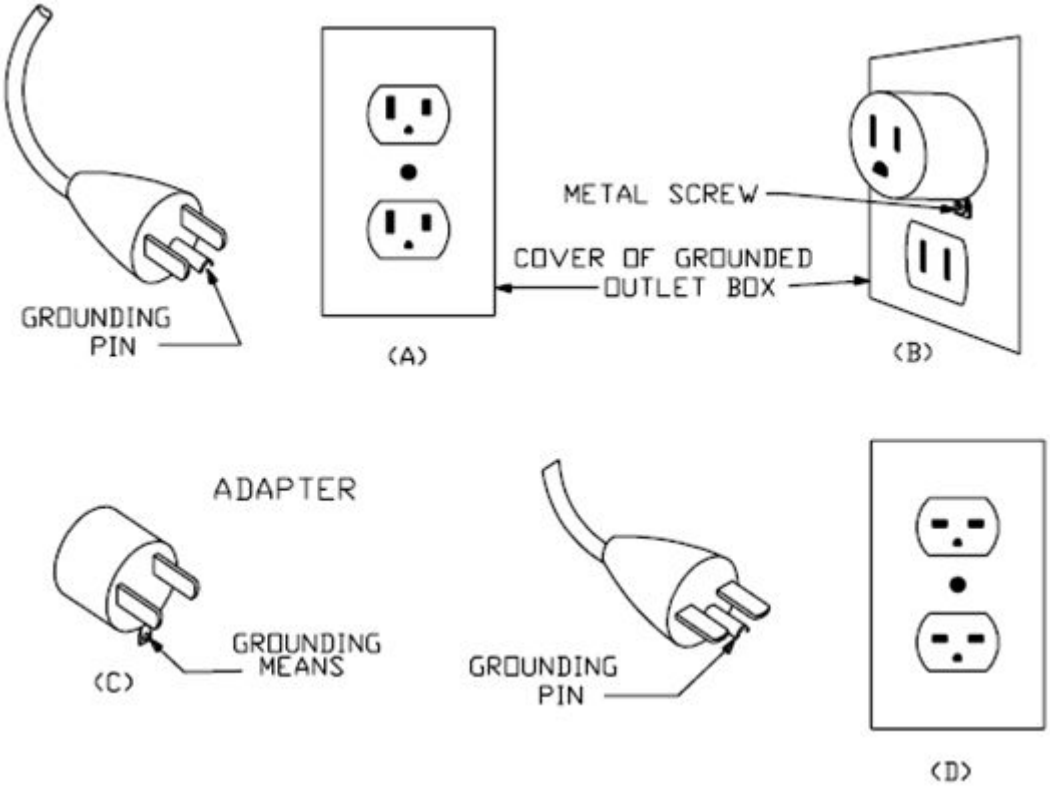


15. Appendix 1 Grounding Instruction

This appliance must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120 V circuit, and has a grounding plug that looks like the plug illustrated in sketch A in Figure. A temporary adaptor, which looks like the adaptor illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by the metal screw.



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