

MDG ATME HAZE GENERATOR

Quick Start Guide

Rev 1.0

VERSION 2

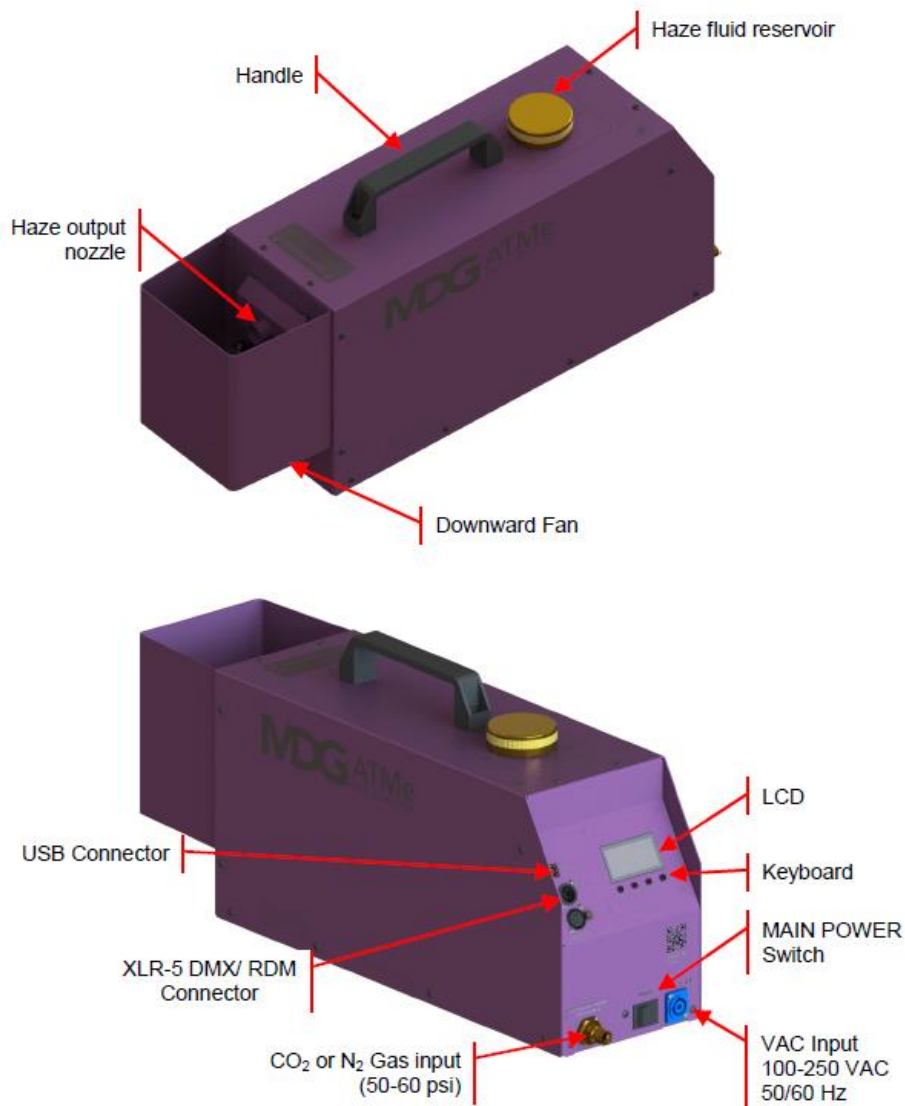
Overview

The MDG ATMe high output haze generator is the evolution of the time-honoured MDG ATMOSPHERE APS, the industry's standard CO² driven hazer for almost two decades.

The ATMe features increased haze output with lower power, fluid and CO² consumption. DMX on-board, with clear LCD user display showing current haze status and gas pressure levels.

The ATMe unit unlike the older Atmosphere APS will internally vary the CO² pressure required to achieve the desired haze level, either locally or via DMX.

Layout



General Operation

The Version 2 standard kit contains one MDG ATMe unit in a touring flight case which, allows quick deployment of haze and safe storage and operation of the CO² cylinders.

The kit is supplied ready-to-go, complete with fluid and a gas cylinder pre-connected.

Begin Operation

1. Connect the unit to a mains supply
2. Open the main valve on top of the connected gas cylinder.
3. Check that the regulator is set to 60psi
4. Switch on the ATMe power
5. Wait for the boot cycle and the menu to appear, the unit is now in standby mode.
6. Control can now be operated locally or via DMX.

Local Control

1. Using the [Control] menu set the [Unit] > [On] to begin the heating cycle which lasts approx. 7-8 minutes.
2. When the temperature reaches READY, the Automatic Purging System (APS) will be initiated. After the first purging cycle is completed (approx. 60 sec) the generator is ready to produce haze.
3. Using the [Control] menu set the [Haze] > [On] to start producing haze.
4. The amount of the haze output can be controlled by adjusting the pressure [Control] > [Set Pres.] > [XX] psi
5. When the generator [Control] menu is set the [Haze] > [Off], the ATMe will stop producing haze and initiate the automatic purging cycle.

DMX Control

1. Connect a DMX input source.
2. Change the DMX address in the [Interface] > [DMX Addr.] menu.
The unit uses three DMX channels which mirror the operation of the local menus.

Channel 1	000 / 0% > 128 / 50% - UNIT OFF	129 / 51% > 255 / 100% - UNIT ON
Channel 2	000 / 0% > 255 / 100% - Variable Haze Output (CO ² Pressure)	
Channel 3	000 / 0% > 128 / 50% - HAZE OFF	129 / 51% > 255 / 100% - HAZE ON

3. The default [Interface] [Mode] is [DMX] which allows operation of the unit remotely, but will initiate the automatic shutdown procedure on the next page if the signal is lost.

Activating [Auto] mode will allow operation after the signal is removed, but will not guarantee that the shutdown procedure will have been run correctly before power off.

Version 2 recommends the use of DMX mode for improved machine reliability.

VERSION²

Shut Down / De-Rig Procedure

Never shut down the MDG ATMe while making Haze.

1. Turn off the haze output - [Control] menu set the [Haze] > [Off]. (Or remove DMX signal)
2. Wait 60 seconds for the APS cycle to complete
3. Switch the generator [Control] menu to [Unit] > [Off]
4. Power off the MDG ATMe, by turning off the main power switch
5. Turn off the gas cylinder main valve.
6. Replace the flight case lids ready for transport.

Fluid / CO² Re-filling

Fluid

To fill the fluid reservoir, unscrew the brass cap and pour the MDG Neutral Fog Fluid until it reaches the inside bottom neck of the opening. Avoid overfilling, screw back the brass cap and make sure it is tightened

Operate the ATMe Haze generator **only with the MDG Neutral Fog Fluid**. Make sure that no other liquids or particles are mixed or added. Using other fluids may cause damage to the generator and will be billed accordingly.

A spill kit is included in the flight case for containing fluid spills due to re-filling or malfunction of the unit.

Gas

The kit is supplied with 2x 7.2kg CO₂ cylinders, each will supply enough gas to run between 20 and 140 hours depending on the hazer output selected (1 psi – 40psi).

To change a cylinder:

1. First complete the shutdown procedure and turn off the unit.
2. Turn off the main gas cylinder valve
3. Remove the regulator using the captive open ended spanner
4. Be sure to collect and set aside the nylon sealing washer.
5. Spin the regulator and re-fit to the new cylinder remembering to re-fit the nylon sealing washer.
6. Open the cylinder valve and check the regulated pressure is 60psi.

Spare sealing washers can be found in the lower storage section of the flight case.

Errors

The most common errors are (see manual for details):

ERROR = P. LOW
LAST ERR CODE = 7

This error will occur if the generator is unable to reach the operating pressure within a fixed time interval. This may be due to a leaking gas line (between the gas bottle and the generator), a closed or empty gas bottle, the set pressure of the regulator below 50-60 psi or a problem with the pressure transducer.

ERROR = P. HIGH
LAST ERR CODE = 8

This error will occur if the pressure is too high for a specific regime, while the gas flow inlet is fully closed. This may be due to a solenoid valve malfunction (electronic or physical blockage), a problem with the pressure transducer, or the heating module partially clogged

Specifications

AC Power	
Input Voltage:	100-250 VAC, 50/60Hz
Power:	715W
Current:	2.9A @ 240V
Connector:	16A Ceeform
Fluid	
Type:	MDG Neutral Fog Fluid ONLY M.S.D.S. available on request
Capacity:	2.5L
Consumption:	100 ml per hour at 40 psi 55 ml per hour at 20 psi
Particle size:	0.5 to 0.7 microns
Gas	
Type:	Industrial Grade CO ₂
Pressure:	60 psi
Consumption:	0.36 kg per hour at 40 psi 0.18 kg per hour at 20 psi
Environmental	
Size:	Flight Case – 1160 x 800 x 600mm
Weight:	Total 165Kg approx with 2x 40Kg Cylinders
Fan noise levels:	45dBA (Theatre Mode Off)