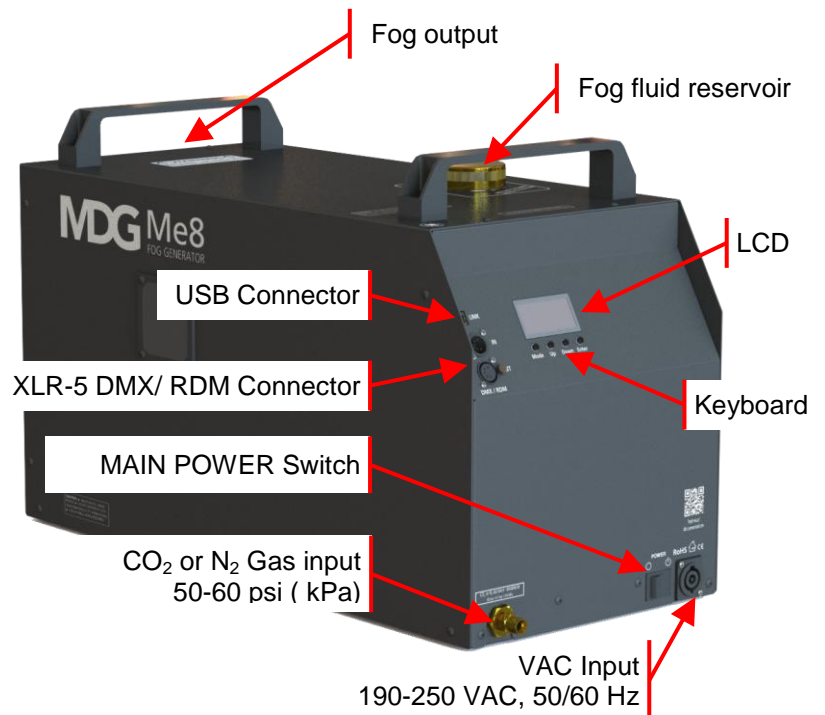# Quick Start

# MDG Me8

## Installation

- Connect the gas inlet to a gas bottle equipped with a regulator. The gas inlet is an Oxygen Adaptor (9/16-18 R.H).
- Connect the data wiring (Male XLR-5 connector for DMX/RDM) if you are using a DMX or RDM controller.
- Connect the power cord 190-250 VAC, 50/60 Hz, 5630W.
- Open the gas bottle ($CO_2$ or $N_2$ industrial grade, over 99% of purity), and **set the regulator pressure between 50 and 60 psi** (3.5 and 4.1 bar, or 350 and 410 kPa).
- Fill the reservoir with **MDG Neutral Fog Fluid.**

*Power ON the MDG **Me8**.*

Fog output

Fog fluid reservoir

LCD

USB Connector

XLR-5 DMX/ RDM Connector

Keyboard

MAIN POWER Switch

$CO_2$ or $N_2$ Gas input
50-60 psi ( kPa)

VAC Input
190-250 VAC, 50/60 Hz

## Working with the keyboard (LOCAL Mode)

- Verify the communication mode in the «INTERFACE ▶COMM. ». When the «AUTO» mode is activated, the MDG **Me8** is then controlled by DMX, only if there is a signal. If the DMX wire is unplugged, the control remains local.
- When the generator is manually switched to **«UNIT ON»** mode («CONTROL ▶ UNIT ▶ ON»), the program starts the heating cycle for approximately 8 minutes («STATUS ▶ STATE = % HEAT»).

  When the temperature reaches operating level, the Automatic Purging System™ (APS™) will be initiated («STATUS ▶ STATE = PURGE»).

  After the first purging cycle is completed (1 min), the generator is ready to produce fog («STATUS ▶ STATE = READY»).

- To produce Fog, switch the generator to **«FOG ON»** mode («CONTROL ▶ FOG ▶ ON»).

  The MDG **Me8** will start to produce fog right away.

  Fog emission can be controlled by adjusting the working pressure of the internal reservoir («CONTROL ▶ PRESSURE») from **2 to 40 psi**.

The MDG **Me8** will produce fog as long as the control parameters are within specifications, the fog fluid reservoir filled and the gas bottle pressurized.

If a critical problem occurs, the fog generator <u>automatically shuts down</u>, and displays an error message in the **Status Menu.**

The most common errors are (check the manual for more details):

- ERROR = P. LOW        Gas bottle is probably closed, empty or not connected. Check also the regulator pressure. With $CO_2$ bottle, check your regulator is not frozen.
- ERROR = P.  HIGH        The input gas pressure is too high (Pressure between 50-60 psi / 3.5-4.1 bar / 350-410 kPa).
- ERROR = HEATER        Check the AC voltage.
- ERROR = PCB HIGH        Move the generator to a colder location.

## Working with DMX/RDM Control (DMX Mode)

- Connect a DMX line to DMX In connector ( Male XLR-5 connector).

- Select the communication mode in the «INTERFACE ▶ COMM. ». When the «AUTO» mode is activated, the MDG *Me8* is then controlled by DMX, only if there is a DMX signal.

- Set the DMX Start Address in the Interface Menu («INTERFACE ▶ COMM. ▶ DMX ADDR»), and choose any value between 1 and 510 (512, last DMX channel).

  *The DMX Start Address can be reassigned via a RDM control.*

The generator uses three (3) DMX channels:

- Channel 1    **0 (0%)**    < UNIT OFF    ≤ **128 (50%)**    < UNIT ON    ≤ **255 (100%)**
- Channel 2    **0 (0%) – 255 (100%)**, FOG OUTPUT (from minimum to maximum)
- Channel 3    **0 (0%)**    < FOG OFF    ≤ **128 (50%)**    < FOG ON    ≤ **255 (100%)**

## Technical Specifications

| | |
|---|---|
| Maximum fog output (per minute): | 800 m$^3$ (28,250 ft$^3$) |
| Fog colour: | Pure white |
| Particle size: | 0.5 to 0.7 microns |
| Fluid consumption: | 8 L (238 oz / 2.12 US gal) per hour at 2.76 bar / 40 psi |
| Fluid type: | MDG **Neutral$^{TM}$ Fog Fluid** ONLY <br> M.S.D.S. available on request |
| Fluid reservoir: | 9.5 L (2.5 US gal) |
| Gas type: | Industrial Grade $CO_2$ or $N_2$ |
| Gas pressure input: | 4.15 bar / 60 psi max |
| Gas consumption: | 6.8 kg   (15 lb) per hour at 2.76 bar / 40 psi |
| Operating voltage: | 190-250 VAC, 50/60Hz, 1 phase, 5630 W <br> Ground / Earth connection **REQUIRED** |
| Operating temperature: | 0 °C to 50 °C (32 °F to 122 °F) |
| Operating humidity: | 90 % relative humidity @ 50 °C (122 °F), non-condensing |
| Storage temperature: | -40 °C (-40 °F) to 60 °C (140 °F) |
| Storage humidity: | 80% relative humidity @ 60° C (140 °F) |
| Approval | CE, CSA and UL pending |
| Dimensions | 41.5 cm (16.3") H x 30.5 cm (12.0") W x 73. cm (28.7") L |
| Weight: | 45 kg (100 lb) |
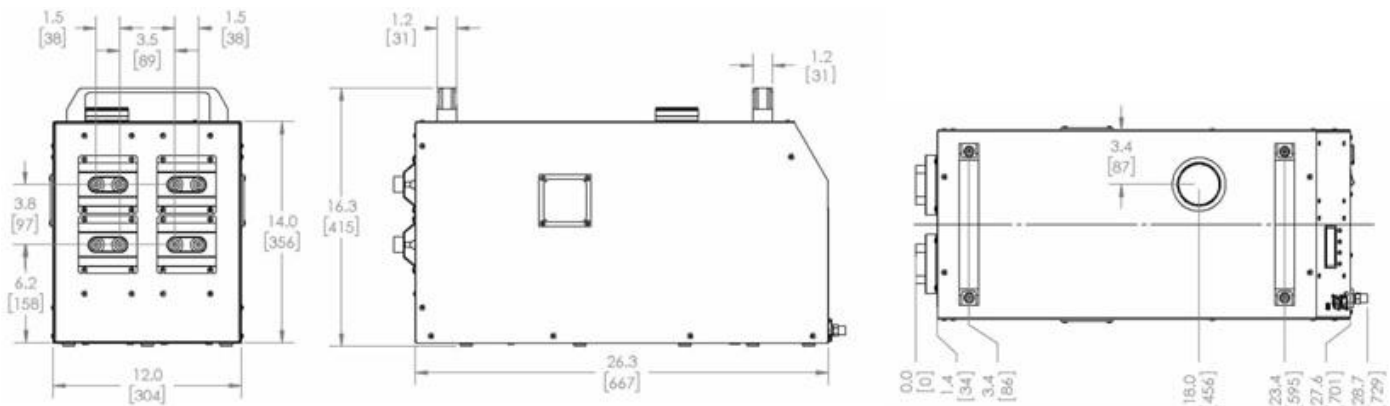


*… For further details, please read the **User Guide.***